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# **GOVERNMENT OF INDIA**

## **CENTRAL WATER COMMISSION**



### **MAHANADI BASIN**

### **METEOROLOGICAL YEAR BOOK**

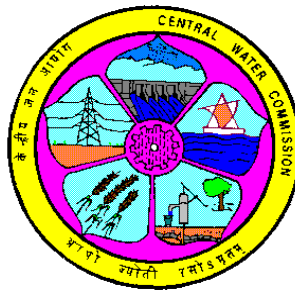
### **(JUNE 2017 - MAY 2018)**

**HYDROLOGICAL OBSERVATION CIRCLE**  
**BHUBANESWAR**

October - 2018



**GOVERNMENT OF INDIA**  
**CENTRAL WATER COMMISSION**



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## PREFACE

Realizing the need for a sound meteorological data base due to paradigm shift towards comprehensive planning and development of water resources on a river basin basis, the Government of India through Ministry of Water Resources, River Development and Ganga Rejuvenation has been making efforts to develop data bases covering all aspects of meteorological cycle. Reliable and continuous records of water resources data are essential for the optimum development of water resources. Conducting meteorological observations in addition to the hydrological observations in all-important river basins of India has, therefore, been one of the main activities of Central Water Commission (CWC).

Meteorological observations of Mahanadi Basin were started by CWC in the early 1960. Three volume of Meteorological Year Book for the year 2014-15, 2015-16 and 2016-17 have been published till date. This meteorological Year Book contains rainfall and climatic data for the year 2017-18 (June 2017 to May 2018) collected at 45 Meteorological stations maintained by CWC in Mahanadi basin.

Besides the daily rainfall and Max-Min temperatures, Evaporation, Wind direction, Humidity and Wind velocity during 2017-18 at these sites have also been included in the data sheets appended.

This volume cover Rainfall, Maximum & Minimum Temperature, Evaporation, Wind direction, Humidity and Wind velocity of 45 sites of Mahanadi basin alongwith salient feature and other important statistical information. Sincere efforts put in by the officers and staff of Mahanadi Division, CWC, Burla under the able leadership of Shri N.Srinivasa Rao, Executive Engineer in collecting and processing of data and bringing out this publication is highly commendable. The guidance and encouragement of Chief Engineer, M&ERO, Bhubaneswar and co-operation of the official of H.O.Circle and Chief Engineer office are duly acknowledged.

**Bhubaneswar**  
**October, 2018**



**( D.K. JENA )**  
**Superintending Engineer**

### **LIST OF OFFICERS WHO HAVE CONTRIBUTED TO THIS PUBLICATION**

Assistance render by the officers and staff of this division in the collection analysis and validation of data in bringing out the book in this form is thankfully acknowledged. Special appreciation is attributed to the field staff under all the Sub-Division of this Division and also Hydrological Observation Circle, C.W.C., Bhubaneswar for collection of data.

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# MAHANADI BASIN METEOROLOGICAL DATA (JUNE 2017 – MAY 2018)

## 1.1 Scope

Central Water Commission is conducting Hydro-Meteorological observations along with Water Quality, Morphological survey and Flood Forecasting work etc. in Mahanadi Basin at 61 stations which were established under different schemes viz 331 National Net Work, 80 Key Station Scheme, 163 key station scheme and Flood Forecasting plan. All these stations are located in the states of Chhattisgarh & Orissa.

The stations where meteorological observations were conducted during the year 2017-18 are given at Table-1

**Table-1**

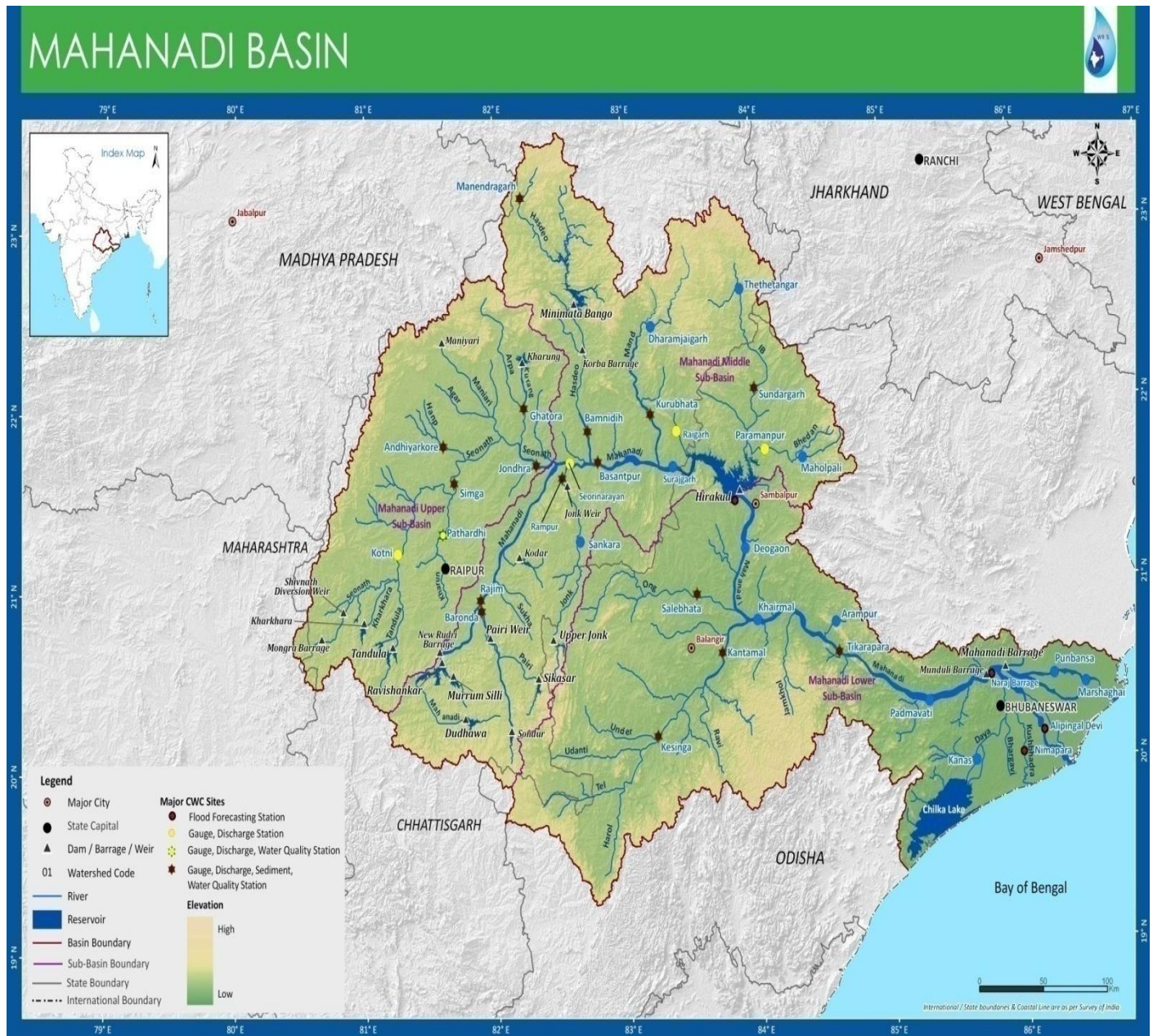
| Sl No. | Code No | Name of Station |
|--------|---------|-----------------|
| 1.     | EMP60E5 | Andhiyarkore    |
| 2.     | EMM00B3 | Bamnidihi       |
| 3.     | EMR00A4 | Baronda         |
| 4.     | EM000R2 | Basantpur       |
| 5.     | EMP40F2 | Ghatora         |
| 6.     | 164     | Gunderdehi      |
| 7.     | EMP00A4 | Jondhra         |
| 8.     | EMF00C3 | Kantamal        |
| 9.     | EMF00K6 | Kesinga         |
| 10.    | EMP00P8 | Kotni           |
| 11.    | EMK00E2 | Kurubhata       |
| 12.    | EMM00T7 | Manendragarh    |
| 13.    | EM000U7 | Rajim           |
| 14.    | EMN00B3 | Rampur          |
| 15.    | EMG00E5 | Salebhata       |
| 16.    | EM000R6 | Seorinarayan    |
| 17.    | EMP00J1 | Simga           |
| 18.    | EMI00H3 | Sundergarh      |
| 19.    | EM000G5 | Tikarapara      |
| 20.    | EMP70F3 | Pathardih       |
| 21.    | 009B    | Kelo            |
| 22.    | 004B    | Parmanpur       |

|     |                     |                         |
|-----|---------------------|-------------------------|
| 23. | Alipingal           | Alipingal               |
| 24. | Arampur             | Arampur                 |
| 25. | 001A                | Bangodam                |
| 26. | 0012B               | Deogaon                 |
| 27. | 002B                | Dharmjaigarh            |
| 28. | 008B                | Jamadarpali             |
| 29. | 007B                | Khairmal                |
| 30. | Khandapara          | Khandapara              |
| 31. | 002A                | Korba                   |
| 32. | Marshaghai          | Marshaghai              |
| 33. | 0010B               | Mohulpali               |
| 34. | Naraj               | Naraj                   |
| 35. | Nimapara            | Nimapara                |
| 36. | Padmavati           | Padmavati               |
| 37. | 163                 | Sankara                 |
| 38. | 005B                | Surajgarh               |
| 39. | 003B                | Thettatanger            |
| 40. | 004A                | Baikunthpur             |
| 41. | 001B                | Burla                   |
| 42. | 011B                | Gopalpur                |
| 43. | 003A                | Pendrroad               |
| 44. | 006B                | Phulbani                |
| 45. | Rpr                 | Raipur                  |
| 46. | Daya Rd. Bridge     | Daya Rd. Bridge (S)     |
| 47. | Pubansha            | Pubansha (S)            |
| 48. | Kishan Nagar        | Kishan Nagar (S)        |
| 49. | Balanga             | Balanga (S)             |
| 50. | Balakati Rd. Bridge | Balakati Rd. Bridge (S) |
| 51. | Tarapur             | Tarapur (S)             |
| 52. | Kathjodi Rd. Bridge | Kathjodi Rd. Bridge (S) |
| 53. | Kanas               | Kanas (S)               |
| 54. | Bhingarpur          | Bhingarpur (S)          |
| 55. | --                  | Boudh                   |
| 56. | --                  | Kathghora (S)           |
| 57. | --                  | Padampur                |
| 58. | --                  | Maniyari Rd Bridge (S)  |
| 59. | --                  | Sarangpal (S)           |
| 60. | Kalma               | Kalma                   |
| 61. | 166                 | Malgaon                 |

(S) - Seasonal

## 1.2 SOURCE OF INFORMATION

Under control of Hydrological Observation Circle CWC Bhubaneswar. in the Mahanadi basin under Mahanadi Division Central Water Commission Burla, during the year 2017-18 Meteorological observation have been conducted at 61 stations, out of these, data collected at 49 stations throughout the year whereas data at 12 stations collected during monsoon season only.



### 1.3 BASIN DESCRIPTION

River Mahanadi is one of the major inter-state east flowing rivers in the peninsular India. During the course of its traverse, it drains fairly large areas of Chattisgarh and Odisha and comparatively very small areas in the states of Jharkhand, Maharashtra and Madhya Pradesh. The basin encompasses the area within geographical co-ordinates of 80°30' to 86°50' East longitudes and 19°20' to 23°35' of North latitudes. The basin is physically bounded in the North by Central India hills, in the South and East by the Eastern Ghats, and in the West by Maikala hill range. The total catchment area of the basin is 1,41,600 sq. km.

Table below shows state wise break-up of the drainage area and the percentage with reference to total area of the basin.

**Table-2**

| Sl. No. | Name of the State | Drainage Area (km <sup>2</sup> ) | % of Total Area |
|---------|-------------------|----------------------------------|-----------------|
| 1       | Chhattisgarh      | 74,970                           | 52.9            |
| 2       | Odisha            | 65,600                           | 46.3            |
| 3       | Jharkhand         | 650                              | 0.5             |
| 4       | Maharashtra       | 250                              | 0.2             |
| 5       | Madhya Pradesh    | 130                              | 0.1             |
|         | <b>TOTAL</b>      | <b>1,41,600</b>                  | <b>100.0</b>    |

### 1.2 River System

River Mahanadi originates at an elevation of about 442 meter above mean sea level near Pharsiya village near Nagri town in Raipur district of Chattisgarh. Total length of the river from its origin to outfall into the Bay of Bengal is about 851 km out of which 357 km is in Chhattisgarh and the balance 494 km in Odisha. During its traverse, a number of tributaries join the river on both the banks. Mahanadi has 8 major tributaries, out of which 6 join it upstream of Hirakud reservoir, while the balance 2 join it down stream of Hirakud.

The catchment upstream of Hirakud reservoir has an area of 83,400 km<sup>2</sup>. The major tributaries in this reach are Seonath, Ib, Pairi, Jonk, Hasdeo and Mand. The catchment downstream of Hirakud reservoir has an area of 58,200 km<sup>2</sup>. The major tributaries in this reach are Tel and Ong. Though, the catchment area of downstream portion is less than that of the catchment upstream of Hirakud reservoir, it has been seen that the contribution of downstream area to the total flood in Mahanadi is equally significant.

The three major tributaries, namely Seonath and Ib on the Left Bank and Tel on the Right Bank, together constitute nearly 46.63 % of the total catchment area of the river Mahanadi.

Seonath, which is the largest tributary of Mahanadi, rises from an elevation of 533 meter in village Kotgai, District Durg (Chattisgarh), and drains three districts of Chattisgarh, namely, Durg, Rajnandgaon and Bilaspur.

Tel, which is the second largest tributary of Mahanadi, rises from an elevation of 700 m in village Jorigram of Nabarangpur district of Odisha and drains five districts of Odisha, namely Nabarangpur, Kalahandi, Bolangir, Boudh and Kandhamal.

Ib, which is the third largest tributary of Mahanadi, rises from an elevation of 762 m in village Pandrapat, District Raigarh (Chattisgarh). It drains Raigarh and Jashpur districts of Chhattisgarh, along with three districts of Odisha, namely Sundargarh, Jharsuguda and Sambalpur.

### 1.3 Climate

The Mahanadi basin experiences four distinct seasons, namely the cold weather, the hot weather, the south-west monsoon and the post monsoon. In the cold weather, the winds are generally light and blow either from the north or the north-east and the atmosphere is bright, thus making winters pleasant. The hot season commences in March lasts till the middle of June till the south-west monsoon sets in. Thunderstorms are quite frequent in hot season bringing some rainfall comparatively higher in hilly regions. The highest relative humidity in the basin varies between 68% and 87% and occurs during July/August. The

lowest relative humidity occurs during April/May and varies between 9% and 45%. The average highest relative humidity in the basin is 82% and the average lowest relative humidity is 31.6% (*Water year Book, CWC, 1997*).

### 1.3.1 Rainfall

The average annual variations in the basin based on daily rainfall data (0.5 X 0.5) for the period 1971-2004, collected from IMD, is shown in Map 4. Major part of the basin area receives rainfall from 1200-1400 mm. More than 90% of the total annual rainfall occurs during monsoon season spread over from June to October. The rainfall is not continuous but occurs in spells of varying durations and intensities. The sub basin wise annual rainfall for 34 years is given in Annexure II: A. Highest 24 hour rainfall recorded in the basin is 581.90 mm in Sambalpur during May, 1982.

However, different blocks in 14 districts (5 of Chhattisgarh and 9 of Odisha) falling in the basin are drought prone (MoRD, 2002).

Details of Rain Gauge stations and other salient features of Mahanadi River and its main tributaries are given below.

**Table No. 3**

| Sl. No. | Name of River       | Elevation of source | Length of Tributary (km) | Catchment area (sq.km) | Average annual rainfall (mm) | No. of Rain Gauge stations | % of Total Area |
|---------|---------------------|---------------------|--------------------------|------------------------|------------------------------|----------------------------|-----------------|
| 1       | Main River Mahanadi | 442                 | 851                      | 48,230                 | 1405.0                       | 29                         | 34.1            |
| 2       | Pairi               | 488                 | 113                      | 3,503                  | 1213.1                       | 1                          | 2.5             |
| 3       | Seonath             | 533                 | 383                      | 30,761                 | 1159.6                       | 9                          | 21.7            |
| 4       | Jonk                | 762                 | 196                      | 3,673                  | 1251.2                       | 2                          | 2.6             |
| 5       | Hasdeo              | 915                 | 333                      | 9,803                  | 1386.6                       | 5                          | 6.9             |
| 6       | Mand                | 686                 | 242                      | 5,237                  | 1465.3                       | 2                          | 3.7             |
| 7       | Ib                  | 762                 | 251                      | 12,447                 | 1375.4                       | 3                          | 8.8             |
| 8       | Ong                 | 457                 | 204                      | 5,128                  | 1395.7                       | 1                          | 3.6             |
| 9       | Tel                 | 700                 | 296                      | 22,818                 | 1286.1                       | 2                          | 16.1            |
|         |                     | <b>Total</b>        |                          | <b>1,41,600</b>        |                              |                            | <b>100.0</b>    |

At present there are 281 Minor, Medium, Major dams and barrages (completed and ongoing) are in the Mahanadi River Basin by the year 2013. They are Hirakud Dam, Bango Dam, Ravishankar Sagar Dam, Murumsilli, Dudhawa, Tandula, Kharang, Kodar, Mayana, Kelo, Maniyari Project, Kosarteda, Sikasar, Sondur, Maroda, Lower Indra, Lower Suktel, Ret, Bagh, Pilasalki etc.

## 1.4 PAST RECORDS OF METEOROLOGICAL DATA

### 1.4.1 METEOROLOGICAL SITES:

Meteorological observations like Rainfall, Maximum-Minimum temperature, Wind velocity, Evaporation and Humidity are being conducted at various stations. During the year 2017-18 Rainfall observations were conducted throughout the year at 54 stations where as Maximum-Minimum temperature observations at 29 stations, Wind velocity observation at 19 stations, Humidity observations at 15 stations and Evaporation data observations were conducted at 20 selected stations. The date of availability of data, which included in this report at various stations, is shown at table 4.

**Table-4**

| Sl no. | Name of station     | Date of start of observation |                |               |            |             |
|--------|---------------------|------------------------------|----------------|---------------|------------|-------------|
|        |                     | Rainfall                     | Max. Min. Temp | Wind velocity | Humidity   | Evaporation |
| 1.     | Andhiyarkore        | 01-06-1980                   | 01-06-1978     | 08.06.1984    | N.O.       | 01.08.1989  |
| 2.     | Bamnidihi           | 01-06-1980                   | 01.06-1971     | 01.08.1975    | 01.10.2008 | 01.07.2000  |
| 3.     | Baronda             | 01-06-1980                   | 01-06-1978     | 19.10.2012    | N.O.       | 02.08.1988  |
| 4.     | Basantpur           | 01-01-1980                   | 01-07-1975     | 01.07.1975    | 01.10.2008 | 01.02.1988  |
| 5.     | Ghatora             | 01-06-1980                   | 01.08.1979     | 21.01.1981    | 08.03.2011 | 01.10.2003  |
| 6.     | Gunderdehi          | 01-06-2013                   | 01.07.2013     | N.O.          | N.O.       | N.O.        |
| 7.     | Jondhra             | 01-08-1980                   | 27.07.1979     | 01.09.1984    | 03.10.2008 | 06/2001     |
| 8.     | Kantamal            | 01-06-1987                   | 01-11-1975     | 05.06.1981    | 01.11.2008 | 07/2008     |
| 9.     | Kesinga             | 26-06-1980                   | 01-12-1990     | 07/2008       | 06/2008    | 06/2008     |
| 10.    | Kotni               | 01-06-1980                   | 01-01-1978     | 30.12.1982    | 05.08.2013 | 26.10.1988  |
| 11.    | Kurubhata           | 01-01-1982                   | 14-08-1978     | 06/2008       | 06/2008    | 06/2008     |
| 12.    | Manendragarh        | 16.05-1987                   | 14.05.1987     | N.O.          | 01.10.2008 | N.O.        |
| 13.    | Rajim               | 01-01-1980                   | 01.05.1971     | 24.09.1974    | 01.06.2008 | 01.08.1974  |
| 14.    | Rampur              | 01-07-1980                   | 01.05.1971     | 01.07.1975    | 06.07.2013 | 11.11.1988  |
| 15.    | Salebhata           | 01-01-1981                   | 01-11-1988     | 06/1980       | 12/2008    | 07/2013     |
| 16.    | Seorinarayan        | 01.06.1995                   | 17.02.1986     | 05.07.1999    | 01.06.2008 | 04/1999     |
| 17.    | Simga               | 05-06-1980                   | 01.08.1972     | 07.07.1984    | 05.07.2014 | 01.06.1987  |
| 18.    | Sundergarh          | 11-08-1980                   | 01-01-1988     | 01/2010       | 06/2008    | 06/2008     |
| 19.    | Tikarapara          | 01-10-1977                   | 01-06-1985     | 01.08.1980    | N.O.       | 10/1977     |
| 20.    | Pathardih           | 23-06-1989                   | 01-06-1989     | 11.01.1994    | N.O.       | 16.04.2007  |
| 21.    | Kelo                | 03-04-2001                   | N.O.           | N.O.          | N.O.       | N.O.        |
| 22.    | Parmanpur           | 01-05-2005                   | N.O.           | N.O.          | N.O.       | N.O.        |
| 23.    | Alipingal           | 01.06.2008                   | N.O.           | N.O.          | N.O.       | N.O.        |
| 24.    | Arapur              | 01.06.2008                   | N.O.           | N.O.          | N.O.       | N.O.        |
| 25.    | Balakati Rd. Bridge | 08/2014                      | N.O.           | N.O.          | N.O.       | N.O.        |
| 26.    | Balanga             | 08/2014                      | N.O.           | N.O.          | N.O.       | N.O.        |
| 27.    | Bangodam            | 01-06-1984                   | 01.11.1987     | N.O.          | N.O.       | N.O.        |
| 28.    | Bhingarpur          | 08/2014                      | N.O.           | N.O.          | N.O.       | N.O.        |
| 29.    | Daya Rd. Bridge     | 08/2014                      | N.O.           | N.O.          | N.O.       | N.O.        |
| 30.    | Deogaon             | 01-07-2004                   | 01-01-2006     | N.O.          | N.O.       | N.O.        |
| 31.    | Dharmjaigarh        | 06-07-1987                   | 01-11-1990     | N.O.          | N.O.       | N.O.        |
| 32.    | Jamadarpli          | 17-06-1995                   | N.O.           | N.O.          | N.O.       | N.O.        |
| 33.    | Kathjodi Rd. Bridge | 08/2014                      | N.O.           | N.O.          | N.O.       | N.O.        |
| 34.    | Kanas               | 01.06.2008                   | N.O.           | N.O.          | N.O.       | N.O.        |
| 35.    | Khairmal            | 01-06-1985                   | 01-02-1989     | N.O.          | N.O.       | N.O.        |
| 36.    | Khandapara          | 01.02.2008                   | N.O.           | N.O.          | N.O.       | N.O.        |
| 37.    | Kishan Nagar        | 08/2014                      | N.O.           | N.O.          | N.O.       | N.O.        |
| 38.    | Korba               | 24.02.1994                   | 01.09.1988     | N.A.          | N.O.       | N.O.        |
| 39.    | Marshaghahi         | 15.06.2015                   | N.O.           | N.O.          | N.O.       | N.O.        |

|     |                    |            |            |            |      |            |
|-----|--------------------|------------|------------|------------|------|------------|
| 40. | Mohulpali          | 01-06-2003 | 01-07-2005 | N.O.       | N.O. | N.O.       |
| 41. | Naraj              | 01.02.2008 | N.O.       | N.O.       | N.O. | N.O.       |
| 42. | Nimapara           | 01.02.2008 | N.O.       | N.O.       | N.O. | N.O.       |
| 43. | Padmavati          | 01.02.2008 | N.O.       | N.O.       | N.O. | N.O.       |
| 44. | Pubansha           | 15.06.2015 | N.O.       | N.O.       | N.O. | N.O.       |
| 45. | Sankara            | 01-06-1987 | 01-11-1988 | 19.08.2001 | N.O. | 21.05.2002 |
| 46. | Surajgarh          | 01-07-1989 | N.O.       | N.O.       | N.O. | N.O.       |
| 47. | Tarapur            | 08/2014    | N.O.       | N.O.       | N.O. | N.O.       |
| 48. | Thettatanger       | 01-06-1987 | 01-01-2000 | N.O.       | N.O. | N.O.       |
| 49. | Baikunthpur        | 27-06-1985 | N.O.       | N.O.       | N.O. | N.O.       |
| 50. | Burla              | 01-06-1984 | 01-01-2005 | N.O.       | N.O. | 01.01.2005 |
| 51. | Gopalpur           | 01.06.2003 | N.O.       | N.O.       | N.O. | N.O.       |
| 52. | Pendraroad         | 01-04-1984 | N.O.       | N.O.       | N.O. | N.O.       |
| 53. | Phulbani           | 14-09-1985 | N.O.       | N.O.       | N.O. | N.O.       |
| 54. | Raipur             | 20-07-1984 | N.O.       | N.O.       | N.O. | N.O.       |
| 55. | Boudh              | N.O.       | N.O.       | N.O.       | N.O. | N.O.       |
| 56. | Kathghora          | N.O.       | N.O.       | N.O.       | N.O. | N.O.       |
| 57. | Padampur           | N.O.       | N.O.       | N.O.       | N.O. | N.O.       |
| 58. | Maniyari Rd Bridge | N.O.       | N.O.       | N.O.       | N.O. | N.O.       |
| 59. | Sarangpal          | N.O.       | N.O.       | N.O.       | N.O. | N.O.       |
| 60. | Kalma              | N.O.       | N.O.       | N.O.       | N.O. | N.O.       |
| 61. | Malgaon            | N.O.       | N.O.       | N.O.       | N.O. | N.O.       |

N.O. – Not observed.

## 1.5 OBSERVATION TECHNIQUE

Meteorological observations at GDQ/GDSQ site are recorded regularly at 08.30hrs and 17.30 hrs. The Meteorological instruments are installed in the premises of the site offices. The data observed at sites is sent to Division office for further processing. The observation technique applied for the collection of Meteorological data is given below.

### 1.5.1 RAIN FALL

Accuracy in the measurement of rainfall is of great importance in almost every field of its application and is significant in agriculture, irrigation, design of waterways, flood control, power generation and conservation of water resources at national and international levels.

The Ordinary Rain-gauge (ORG) is made of fiberglass reinforced polyester material as per Indian Standard Specification No. IS 5225: 1992 (old version 5225-1969). The details of ORG installed at sites are given below.

| Measuring capacity of Rainfall in mm | Collector Nominal   | Base  | Bottle  |
|--------------------------------------|---------------------|-------|---------|
| 100                                  | 200 cm <sup>2</sup> | Small | 2 liter |
| 200                                  | 200 cm <sup>2</sup> | Small | 4 liter |

Both the above 100 and 200 mm rainfall rain gauges are identical except for the bottle used. The rain gauges capacity can be changed by interchanging the collectors on the base and having bottles of different capacities. The 2 liter bottle is used only in regions where rainfall between two observations is likely to be less than 100 mm or where

an additional cylinder is used to collect the overflow, if any, from the bottle. The rim diameter of the collector is 159.6 mm. The base and the collector are locked together by a set of two locking rings fixed firmly to the two parts.

Besides, a hasp and staple is provided to permanently lock the rain gauge with a padlock. Care is taken that the rain gauge is not installed on the ground that falls away steeply on the side of prevailing wind. Its distance from every object is generally kept four times the height of the object and never less than twice the height of the object, above rim of the gauge.

Rainfall is measured in terms of the depth of the water, which would be collected upon a level area of any size, assuming the rain to fall uniformly over the area at the rate which it falls uniformly over the area of rim collector of rain gauge. Thus, one centimeter of rainfall means that if the rain were to fall on the level surface which does not absorb it and from which it cannot run off or evaporate, it would form a sheet of water one centimeter in depth. To measure the rainfall, the water collected in the receiving bottle is poured in to especially graduated glass cylinders are manufactured according to Indian Standard Specification No. IS:4849-4968. Care is taken to avoid spilling of the collected water.

As per their requirement, Indian Meteorological Department (IMD) has installed the rain gauges at some of the selected sites of CWC. The rainfall data from these sites is communicated to IMD, Pune as per their time schedule. At the remaining sites the rain gauges have been installed by field divisions of Central Water Commission. The date of installation of rain gauges (both ORG & SRRG) and the names of the agencies maintaining them is given at Table 5.

**Table No. 5**

**NAME OF THE AGENCY MAINTAINING ORG & SRRG**

| SL No. | Site Name    | SRG (Date) | Agency ( CWC / IMD ) | ARG (Date) | Agency ( CWC / IMD ) |
|--------|--------------|------------|----------------------|------------|----------------------|
| 1.     | Andhiyarkore | 01.06.1980 | CWC                  | 01.07.1980 | CWC                  |
| 2.     | Bamnidihi    | 29.01.1971 | CWC                  | 02.07.1990 | CWC                  |
| 3.     | Baronda      | 01.06.1980 | CWC                  | 04.06.1988 | CWC                  |
| 4.     | Basantpur    | 01.02.1971 | CWC                  | 05.06.1978 | CWC                  |
| 5.     | Ghatora      | 09.07.1994 | CWC                  | N.O.       | N.A.                 |
| 6.     | Gunderdehi   | 01.06.2013 | CWC                  | N.O.       | N.A.                 |
| 7.     | Jondhra      | 24.01.1979 | CWC                  | 06/1990    | CWC                  |
| 8.     | Kantamal     | 01.06.1987 | CWC                  | 07/1979    | CWC                  |
| 9.     | Kesinga      | 26.06.1980 | CWC                  | 07/1988    | CWC                  |
| 10.    | Kotni        | 01.06.1980 | CWC                  | 07.02.1995 | CWC                  |
| 11.    | Kurubhata    | 01.01.1982 | CWC                  | N.O.       | N.A.                 |
| 12.    | Manendragarh | 16.05.1987 | CWC                  | 04/1994    | CWC                  |
| 13.    | Rajim        | 01.01.1980 | CWC                  | 01.06.1984 | CWC                  |
| 14.    | Rampur       | 01.07.0980 | CWC                  | 01.07.1980 | CWC                  |
| 15.    | Salebhata    | 01.01.1981 | CWC                  | N.O.       | N.A.                 |
| 16.    | Seorinarayan | 01.06.1995 | CWC                  | N.O.       | N.A.                 |
| 17.    | Simga        | 05.06.1980 | CWC                  | 26.05.1987 | CWC                  |
| 18.    | Sundergarh   | 11.08.1980 | CWC                  | 05/1990    | CWC                  |
| 19.    | Tikarapara   | 01.10.1977 | CWC                  | 04/1976    | CWC                  |
| 20.    | Pathardih    | 20.06.1989 | CWC                  | 26.05.2003 | CWC                  |
| 21.    | Kelo         | 03.04.2001 | CWC                  | N.O.       | N.A.                 |
| 22.    | Parmanpur    | 01.05.2005 | CWC                  | N.O.       | N.A.                 |

|     |                        |             |      |      |      |
|-----|------------------------|-------------|------|------|------|
| 23. | Alipingal              | 01.02.2008  | CWC  | N.O. | N.A. |
| 24. | Arapur                 | 01.02.2008  | CWC  | N.O. | N.A. |
| 25. | Balakati Rd. Bridge    | 01.08.2014  | CWC  | N.O. | N.A. |
| 26. | Balanga                | 01.08.2014  | CWC  | N.O. | N.A. |
| 27. | Bangodam               | 01.06.1984  | CWC  | N.O. | N.A. |
| 28. | Bhingarpur             | 01.08.2014  | CWC  | N.O. | N.A. |
| 29. | Daya Rd. Bridge        | 01.08.2014  | CWC  | N.O. | N.A. |
| 30. | Deogaon                | 01.07.2004  | CWC  | N.O. | N.A. |
| 31. | Dharmjaigarh           | 06.07.1987  | CWC  | N.O. | N.A. |
| 32. | Jamadarpali            | 17.06.1995  | CWC  | N.O. | N.A. |
| 33. | Kathjodi Rd. Bridge    | 15.07.2014  | CWC  | N.O. | N.A. |
| 34. | Kanas                  | 01.06.2008  | CWC  | N.O. | N.A. |
| 35. | Khairmal               | 01.06.1985  | CWC  | N.O. | N.A. |
| 36. | Khandapara             | 01.02.2008  | CWC  | N.O. | N.A. |
| 37. | Kishan Nagar           | 01.08.2014  | CWC  | N.O. | N.A. |
| 38. | Korba                  | 24.02.1994  | CWC  | N.O. | N.A. |
| 39. | Marshaghai             | 15.06.2015  | CWC  | N.O. | N.A. |
| 40. | Mohulpali              | 01.06.2003  | CWC  | N.O. | N.A. |
| 41. | Naraj                  | 01.02.2008  | CWC  | N.O. | N.A. |
| 42. | Nimapara               | 01.02.2008  | CWC  | N.O. | N.A. |
| 43. | Padmavati              | 01.02.2008  | CWC  | N.O. | N.A. |
| 44. | Pubansha               | 15.06.2015  | CWC  | N.O. | N.A. |
| 45. | Sankara                | 01.07.1987  | CWC  | N.O. | N.A. |
| 46. | Surajgarh              | 01.07.1989  | CWC  | N.O. | N.A. |
| 47. | Tarapur                | 01.07.2014  | CWC  | N.O. | N.A. |
| 48. | Thettatanger           | 01.06.1987  | CWC  | N.O. | N.A. |
| 49. | Baikunthpur            | 04.07.1984  | CWC  | N.O. | N.A. |
| 50. | Burla                  | 01.06.1984  | CWC  | N.O. | N.A. |
| 51. | Gopalpur               | 01.06.2003  | CWC  | N.O. | N.A. |
| 52. | Pendraroad             | 07.04.19984 | CWC  | N.O. | N.A. |
| 53. | Phulbani               | 14.09.1985  | CWC  | N.O. | N.A. |
| 54. | Raipur                 | 20.07.1984  | CWC  | N.O. | N.A. |
| 55. | Boudh                  | N.O.        | N.O. | N.O. | N.O. |
| 56. | Kathghora              | N.O.        | N.O. | N.O. | N.O. |
| 57. | Padampur               | N.O.        | N.O. | N.O. | N.O. |
| 58. | Maniyari Rd,<br>Bridge | N.O.        | N.O. | N.O. | N.O. |
| 59. | Sarangpal              | N.O.        | N.O. | N.O. | N.O. |
| 60. | Kalma                  | N.O.        | N.O. | N.O. | N.O. |
| 61. | Malgaon                | N.O.        | N.O. | N.O. | N.O. |

No ARG of any site is in working condition. Most of all sites have installed Tipping Bucket Rain gauge except site Kotni, Baronda, Pathardih, Rampur, Gopalpur and sites opened during 2013 to 2015.

N.O. – Not Observed. N.A. – Not Applicable.

### **1.5.2 MAXIMUM MINIMUM TEMPERATURE**

As general purpose maximum and minimum thermometer is used at sites for registering extremes of temperature during a day i.e, 24 hrs. The thermometer of 'A' pattern having range  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  with smallest scale divisions equivalent to  $1.0^{\circ}\text{C}$  (IS: 7000-1973) is generally used.

The thermometer is exposed in wooden louvered enclosure known as Stevenson screen, which support the thermometers and shield them from direct radiation from outside sources and from precipitation while allowing free circulation of air around them, and prevent accidental damage.

### **1.5.3 WIND VELOCITY**

The accurate measurement of wind velocity is of great importance in meteorological research and practice, agriculture, transport, shipping, industry, engineering and in many other fields of human activity. The simplest and most common method of measuring wind velocity is by the use of a Cup Counter Anemometer in which the run of wind is indicated directly on a revolution counter. From the readings of the counter at the beginning and the end of a specified period i.e. one day, the mean wind velocity over the period is calculated.

The instrument specified in Indian Standard Specification No. IS:5912-1970 is used for this purpose at sites. The instrument is fixed at the top of a pole erected /roof top in the site office premises. The instrument has a cup wheel consisting of three conical cups with beaded edges, free to rotate in a horizontal plane. The cup wheel spindle is connected by worm gearing to a revolution counter mounted inside a waterproof housing. The gear ratio between the cup and counter spindles is so chosen that the run of the wind is shown.

### **1.5.4 HUMIDITY**

Humidity data is of great importance in agriculture, Irrigation, ware housing especially for grains, transport, tourism, and meteorological research and in many other field of human activity. The simplest and most common method of measuring humidity is by the use of Dry & Wet bulb thermometer. The range of these thermometers is from  $-10^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  with smallest scale division's equivalent to  $1.0^{\circ}\text{C}$ . These thermometers are exposed in Stevenson Screen. By the observed temperature from both these thermometers, humidity is determined from Hygrometric table.

### **1.5.5 EVAPORATION**

The measurement of the amount of water evaporated from the soil and from free water surfaces is of great importance in agriculture, hydro meteorological studies, in the design, operation of reservoirs, and in irrigation and drainage systems. The rate of evaporation is defined as the amount of water lost by evaporation from a unit surface area, in unit time. This is proportionate to depth of water lost in unit time. The unit time is generally a day and the unit depth is in millimeters.

Evaporation is measured at sites using a Pan Evaporimeter. The values obtained with Pan Evaporimeter do not give directly the evaporation from a surface representative of natural conditions. They indicate, however, the order of magnitude of evaporation from such surfaces and comparative results over different areas need to be obtained by using identical instruments and similar exposures.

The pan Evaporimeter as specified in Indian Standard Specification No. IS: 5973-1970 is used at sites for observing evaporation data. The instrument consists of a cylindrical reservoir of fixed diameter and depth, filled with water to few centimeters below to rim. A fixed point gauge in a stilling well serves to indicate the level of water at each observation to bring the water level to the fixed point. The cross sectional area of the measuring cylinder is

such that the number of millimeters of water added from the measuring cylinder divided by 100 gives the amount of water in millimeters which has been evaporated from pan during a given interval of time. The reservoir is covered with wire mesh netting to protect the pan from birds and animals. A thermometer suspended from mount clamped to the side of the reservoir records the temperature of the water in the pan.

## 2.0 METEOROLOGICAL DATA

### 2.1 EXPLANATORY NOTES

The explanatory notes described here under are to assist in the interpretation of Meteorological parameters contained in the data presented here.

1. Meteorological parameters are observed at sites regularly at 08.30 hrs & 17:30 hrs.
2. Water year ranges from 1<sup>st</sup> June of one calendar year to 31<sup>st</sup> May of the next calendar year and covers one complete Hydrological cycle.
3. Measuring authority refers to the field division responsible for the collection of Meteorological data.
4. All the Meteorological data viz. Maximum- Minimum temperature, Wind Velocity, Humidity and Evaporation is published in the form of daily observed data keeping in view of its utility in designing of hydrological, hydropower projects and for agriculture purposes etc.

### 2.2 METHOD OF PRESENTATION

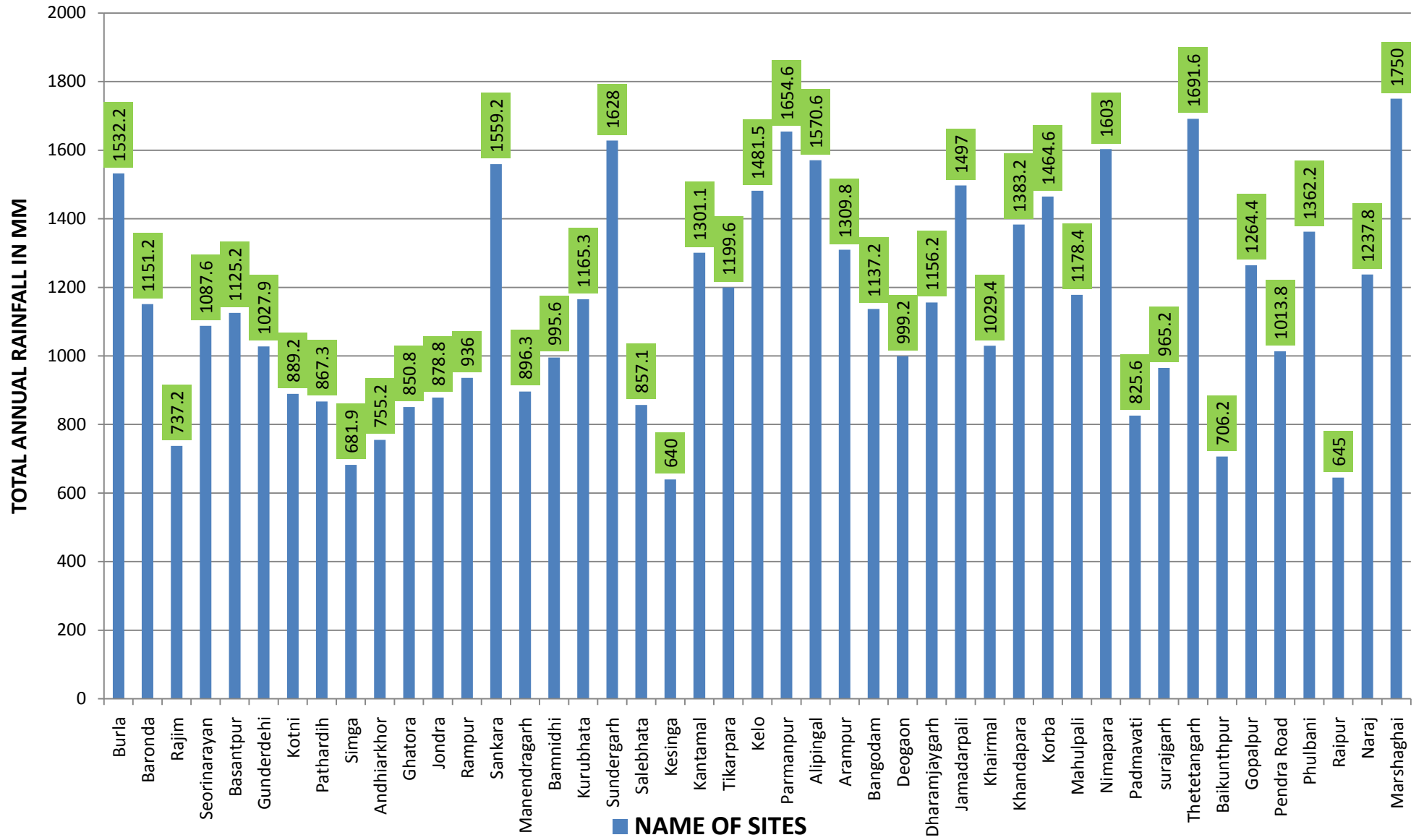
In the succeeding pages, station wise Meteorological data (Twice Daily & Daily observed) are presented containing Maximum-Minimum temperature, Wind Velocity, Evaporation, Humidity and Rainfall data. The sequence of stations is arranged from the origin of the river to mouth giving the priority to an intermediate tributary station in a similar fashion.

**Table 1. Salient features of the Basin**

| Sl. No. | Features                               | Description                                                                                                     |
|---------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1       | Basin Extent                           | 80° 28' to 86° 43' E<br>19° 8' to 23° 32' N                                                                     |
| 2       | Area (Sq.km)                           | 141589                                                                                                          |
| 3       | States in the basin                    | Chhattisgarh (52.42%), Odisha (47.14%),<br>Maharashtra (0.23%), Madhya Pradesh (0.11%),<br>and Jharkhand (0.1%) |
| 4       | Districts                              | 45                                                                                                              |
| 5       | Parliamentary Constituencies (2009)    | 32                                                                                                              |
| 6       | Mean Annual Rainfall (mm)              | 1165.0                                                                                                          |
| 7       | Mean Maximum Temperature (o C)         | 46.6                                                                                                            |
| 8       | Mean Minimum Temperature (o C)         | 9.3                                                                                                             |
| 9       | Total Population (As per Census 2001)  | 40758099                                                                                                        |
| 10      | Number of villages(As per Census 2001) | 38285                                                                                                           |
| 11      | Highest Elevation (m)                  | 1321 (SRTM DEM)                                                                                                 |
| 12      | Avg. Annual Water Potential (BCM)      | 66.9                                                                                                            |
| 13      | Utilizable Surface Water (BCM)         | 50                                                                                                              |
| 14      | Number of Sub-basins                   | 8                                                                                                               |
| 15      | Number of Watersheds                   | 227                                                                                                             |
| 16      | Number of water resources structures   | Dams (253) Barrages (14) Weir (13) Anicuts (0)<br>Lifts (1) Power House (6)                                     |
| 17      | Highest Dam                            | Minimata (Hasdeo) Bango Dam (87 m)                                                                              |
| 18      | Longest Dam                            | Hirakud Dam (4800 m)                                                                                            |
| 19      | Highest Barrage                        | Karra Nalla Barrage (18.89 m)                                                                                   |
| 20      | Longest Barrage                        | Mahanadi Barrage (1928 m)                                                                                       |

|                                                |                                          |                                                                     |
|------------------------------------------------|------------------------------------------|---------------------------------------------------------------------|
| 21                                             | Number of Irrigation projects            | Major : 24<br>Medium: 50<br>ERM: 16                                 |
| 22                                             | Number of HE projects                    | 5                                                                   |
| 23                                             | Number of Ground water observation wells | 1147                                                                |
| 24                                             | Number of Hydro-Observation sites        | 59 existing,                                                        |
| 25                                             | Number of Flood Forecasting Sites        | 4                                                                   |
| 26                                             | Water tourism sites                      | 12 Water tourism sites, 14 Wildlife Sanctuaries /<br>National Parks |
| <i>*as per data available under India-WRIS</i> |                                          |                                                                     |

## TOTAL ANNUAL RAINFALL OF SITES FOR THE YEAR 2017-2018



### Site wise Maximum-Minimum Temperature And Total Annual Rainfall

| Sl. No | Site Name           | District      | Taluk         | Temperature (° C) |      | Total Rainfall (mm) 2017-18 |
|--------|---------------------|---------------|---------------|-------------------|------|-----------------------------|
| 1.     | Andhiyarkore        | Durg          | Nawagarh      | 46.0              | 8.0  | 755.2                       |
| 2.     | Bamnidihi           | Jangir-champa | Jangir        | 45.0              | 8.0  | 995.6                       |
| 3.     | Baronda             | Raipur        | Rajim         | 46.0              | 8.5  | 1151.8                      |
| 4.     | Basantpur           | Jangir-champa | Champa        | 44.0              | 8.0  | 1125.2                      |
| 5.     | Ghatora             | Bilaspur      | Bilaspur      | 46.0              | 7.5  | 850.8                       |
| 6.     | Gunderdehi          | Durg          | Balod         | 43.0              | 8.0  | 1027.9                      |
| 7.     | Jondhra             | Bilaspur      | Masturi       | 44.0              | 6.0  | 878.8                       |
| 8.     | Kantamal            | Baudh         | Kantamal      | 43.0              | 8.0  | 1301.1                      |
| 9.     | Kesinga             | Kalahandi     | Bhawanipatna  | 44.0              | 9.0  | 640.0                       |
| 10.    | Kotni               | Durg          | Durg          | 48.0              | 10.0 | 889.2                       |
| 11.    | Kurubhata           | Raigarh       | Raigarh       | 46.0              | 8.0  | 1165.3                      |
| 12.    | Manendragarh        | Koria         | Manendragarh  | 45.0              | 8.0  | 896.3                       |
| 13.    | Rajim               | Raipur        | Rajim         | 43.5              | 11.0 | 737.2                       |
| 14.    | Rampur              | Raipur        | Blodabazar    | 46.5              | 8.0  | 936.0                       |
| 15.    | Salebhata           | Balangir      | Balangir      | 47.0              | 8.0  | 857.1                       |
| 16.    | Seorinarayan        | Janjgir-champ | champa        | 46.0              | 13.0 | 1087.6                      |
| 17.    | Simga               | Raipur        | Simga         | 49.0              | 8.5  | 681.9                       |
| 18.    | Sundergarh          | Sundergarh    | Sundergarh    | 47.0              | 7.0  | 1628.0                      |
| 19.    | Tikarapara          | Angul         | Angul         | 46.5              | 6.5  | 1199.6                      |
| 20.    | Pathardih           | Raipur        | Raipur        | 43.0              | 15.0 | 867.3                       |
| 21.    | Kelo                | Raigarh       | Raigarh       | N.O.              | N.O. | 1481.5                      |
| 22.    | Parmanpur           | Jharsuguda    | Jharsuguda    | N.O.              | N.O. | 1654.6                      |
| 23.    | Alipingal           | Jagatsinghpur | Jagatsinghpur | N.O.              | N.O. | 1570.6                      |
| 24.    | Arapur              | Angul         | Athamalik     | N.O.              | N.O. | 1309.8                      |
| 25.    | Balakati Rd. Bridge | Khurda        | Khurda        | N.O.              | N.O. | N.O.                        |
| 26.    | Balanga             | Puri          | Nimapada      | N.O.              | N.O. | N.O.                        |
| 27.    | Bangodam            | Korba         | Katghora      | N.O.              | N.O. | 1135.2                      |
| 28.    | Bhingarpur          | Cuttack       |               | N.O.              | N.O. | N.O.                        |
| 29.    | Daya Rd. Bridge     | Khurda        | Bhubaneswar   | N.O.              | N.O. | N.O.                        |
| 30.    | Deogaon             | Sambalpur     | Sambalpur     | N.O.              | N.O. | 999.2                       |
|        |                     |               |               |                   |      |                             |

**Site wise Maximum-Minimum Temperature And Total Annual Rainfall**

| Sl. No | Site Name           | District      | Taluk         | Temperature (° C) |      | Total Rainfall (mm) 2017-18 |
|--------|---------------------|---------------|---------------|-------------------|------|-----------------------------|
| 31.    | Dharmjaigarh        | Raigarh       | Dharamjaygarh | N.O.              | N.O. | 1156.2                      |
| 32.    | Jamadarpali         | Sambalpur     | Sambalpur     | N.O.              | N.O. | 1497.0                      |
| 33.    | Kathjodi Rd. Bridge | Cuttack       | Cuttack       | N.O.              | N.O. | N.O.                        |
| 34.    | Kanas               | Puri          | Puri          | N.O.              | N.O. | N.O.                        |
| 35.    | Khairmal            | Baudh         | Baudh         | N.O.              | N.O. | 1029.4                      |
| 36.    | Khandapara          | Nayagarh      | Khandapara    | N.O.              | N.O. | 1383.2                      |
| 37.    | Kishan Nagar        | Cuttack       | Cuttack       | N.O.              | N.O. | N.O.                        |
| 38.    | Korba               | Korba         | Korba         | N.O.              | N.O. | 1464.6                      |
| 39.    | Marshaghai          | Kandrapada    | Kandrapada    | N.O.              | N.O. | 1750.0                      |
| 40.    | Mohulpali           | Sambalpur     | Kuchinda      | N.O.              | N.O. | 1178.4                      |
| 41.    | Naraj               | Cuttack       | Cuttack       | N.O.              | N.O. | 1237.8                      |
| 42.    | Nimapara            | Puri          | Nimapada      | N.O.              | N.O. | 1603.0                      |
| 43.    | Padmavati           | Nayagarh      | Khandapada    | N.O.              | N.O. | 825.6                       |
| 44.    | Pubansha            | Kendrapada    | Kendrapada    | N.O.              | N.O. | N.O.                        |
| 45.    | Sankara             | Mahasamund    | Mahasamund    | 45.0              | 11.0 | 1559.2                      |
| 46.    | Surajgarh           | Raigarh       | Raigarh       | N.O.              | N.O. | 965.2                       |
| 47.    | Tarapur             | Jagatsinghpur | Kujanga       | N.O.              | N.O. | N.O.                        |
| 48.    | Thettatanger        | Jashpurnagar  | Kunkuri       | N.O.              | N.O. | 1691.6                      |
| 49.    | Baikunthpur         | Koria         | Baikuntpur    | N.O.              | N.O. | 706.2                       |
| 50.    | Burla               | Sambalpur     | Sambalpur     | 43.0              | 13.0 | 1532.2                      |
| 51.    | Gopalpur            | Sundergarh    | Sundergarh    | N.O.              | N.O. | 1264.4                      |
| 52.    | Pendrroad           | Bilaspur      | Pandraroad    | N.O.              | N.O. | 1013.8                      |
| 53.    | Phulbani            | Kandhamal     | Phulabani     | N.O.              | N.O. | 1362.2                      |
| 54.    | Raipur              | Raipur        | Raipur        | N.O.              | N.O. | 645.0                       |
| 55.    | Boudh               | N.O.          | N.O.          | N.O.              | N.O. | N.O.                        |
| 56.    | Kathghora           | N.O.          | N.O.          | N.O.              | N.O. | N.O.                        |
| 57.    | Padampur            | N.O.          | N.O.          | N.O.              | N.O. | N.O.                        |
| 58.    | Maniyari Rd Bridge  | N.O.          | N.O.          | N.O.              | N.O. | N.O.                        |
| 59.    | Sarangpal           | N.O.          | N.O.          | N.O.              | N.O. | N.O.                        |
| 60.    | Kalma               | N.O.          | N.O.          | N.O.              | N.O. | N.O.                        |
| 61.    | Malgaon             | N.O.          | N.O.          | N.O.              | N.O. | N.O.                        |

N.O. – Not Observed

## **ABBREVIATIONS AND SYMBOLS**

|      |   |                           |
|------|---|---------------------------|
| Km   | : | Kilometer                 |
| mm   | : | Millimeter                |
| °    | : | Degree                    |
| '    | : | Minute                    |
| ° C  | : | Degree Celsius            |
| H    | : | Hour                      |
| Hrs  | : | Hours                     |
| Km/h | : | Kilometer per hour        |
| %    | : | Percentage                |
| MD   | : | Mahanadi Division         |
| SRRG | : | Self Recording Rain gauge |
| ORG  | : | Ordinary Rain Gauge       |
| NA   | : | Not Available             |

# **HYDROLOGICAL SITES**

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| June 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |               |       |                      |       |                       |        |
|-----------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|--------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day       | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM       |                      | 33.0  |                      | 42.0   |                     | 35.0  |                   | 29.0  |                       | 63.0   |               | -     |                      | 4.0   |                       | 36.0   |
| 1         | 32.0                 | 28.0  | 36.0                 | 34.0   | 35.0                | 29.0  | 29.0              | 27.0  | 63.0                  | 85.0   | -             | 5.4   | 5.1                  | 3.4   | 34.0                  | 36.5   |
| 2         | 27.0                 | 32.0  | 31.0                 | 43.0   | 32.0                | 36.0  | 29.0              | 30.0  | 79.0                  | 63.0   | 3.0           | -     | 3.0                  | 3.3   | 30.0                  | 35.0   |
| 3         | 28.0                 | 32.0  | 36.0                 | 42.0   | 31.0                | 39.0  | 28.0              | 31.0  | 79.0                  | 54.0   | -             | -     | 4.6                  | 3.2   | 26.0                  | 36.0   |
| 4         | 30.0                 | 31.0  | 38.0                 | 41.0   | 34.0                | 38.0  | 29.0              | 32.0  | 68.0                  | 62.0   | -             | -     | 7.2                  | 3.2   | 28.0                  | 35.0   |
| 5         | 32.0                 | 28.0  | 39.0                 | 38.0   | 36.0                | 37.0  | 31.0              | 30.0  | 69.0                  | 78.0   | -             | -     | 5.4                  | 8.0   | 28.0                  | 36.0   |
| 6         | 30.0                 | 30.0  | 31.0                 | 35.0   | 31.0                | 29.0  | 27.0              | 26.0  | 73.0                  | 78.0   | -             | -     | 4.0                  | 2.0   | 30.0                  | 38.0   |
| 7         | 29.0                 | 31.0  | 30.0                 | 36.0   | 30.0                | 29.0  | 26.0              | 26.0  | 72.0                  | 78.0   | -             | -     | 4.6                  | 2.4   | 30.0                  | 38.0   |
| 8         | 28.0                 | 31.0  | 33.0                 | 34.0   | 32.0                | 29.0  | 29.0              | 26.0  | 79.0                  | 78.0   | 4.2           | -     | 4.2                  | 6.0   | 30.0                  | 39.0   |
| 9         | 27.0                 | 30.0  | 34.0                 | 38.0   | 31.5                | 34.0  | 29.0              | 29.0  | 82.0                  | 68.0   | -             | -     | 3.8                  | 6.0   | 31.0                  | 39.0   |
| 10        | 27.0                 | 28.0  | 35.0                 | 38.0   | 35.5                | 32.0  | 30.0              | 28.0  | 66.0                  | 73.0   | -             | -     | 4.0                  | 3.0   | 31.0                  | 38.0   |
| 11        | 27.0                 | 30.0  | 35.0                 | 36.0   | 33.5                | 34.0  | 30.0              | 29.0  | 77.0                  | 68.0   | -             | -     | 5.6                  | 4.0   | 31.0                  | 38.0   |
| 12        | 28.0                 | 31.0  | 32.0                 | 35.0   | 31.0                | 30.0  | 28.0              | 26.0  | 79.0                  | 72.0   | -             | -     | 3.8                  | 4.0   | 31.0                  | 36.0   |
| 13        | 25.0                 | 28.0  | 32.0                 | 35.0   | 29.0                | 34.0  | 27.0              | 29.5  | 85.0                  | 71.0   | 20.6          | -     | 4.6                  | 2.8   | 28.0                  | 36.0   |
| 14        | 25.0                 | 29.0  | 36.0                 | 32.0   | 28.0                | 33.0  | 27.0              | 30.0  | 92.0                  | 80.0   | 49.2          | -     | 2.8                  | 4.0   | 27.0                  | 39.0   |
| 15        | 30.0                 | 33.0  | 35.0                 | 41.0   | 33.0                | 35.0  | 30.0              | 30.0  | 80.0                  | 69.0   | -             | -     | 2.0                  | 2.4   | 29.0                  | 40.0   |
| 16        | 23.0                 | 32.0  | 41.0                 | 34.0   | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.0   | 57.4          | -     | 4.4                  | 3.2   | 30.0                  | 36.0   |
| 17        | 28.0                 | 32.0  | 33.0                 | 38.0   | 31.0                | 34.0  | 28.0              | 30.0  | 79.0                  | 74.0   | -             | -     | 4.0                  | 2.8   | 30.0                  | 38.0   |
| 18        | 29.0                 | 35.0  | 30.0                 | 37.0   | 30.0                | 35.0  | 26.0              | 31.0  | 72.0                  | 74.0   | -             | -     | 4.0                  | 6.4   | 30.0                  | 40.0   |
| 19        | 30.0                 | 35.0  | 31.0                 | 36.0   | 31.0                | 34.0  | 27.0              | 30.0  | 73.0                  | 74.0   | -             | -     | 4.2                  | 7.0   | 31.0                  | 39.0   |
| 20        | 30.0                 | 37.0  | 31.0                 | 38.0   | 31.0                | 31.0  | 27.0              | 30.0  | 73.0                  | 79.0   | -             | -     | 4.0                  | 6.0   | 31.0                  | 40.0   |
| 21        | 28.0                 | 34.0  | 29.0                 | 35.0   | 27.0                | 33.0  | 26.5              | 32.0  | 96.0                  | 93.0   | 102.4         | -     | 2.4                  | 4.0   | 27.0                  | 40.0   |
| 22        | 29.0                 | 34.0  | 30.0                 | 35.0   | 28.0                | 35.0  | 27.0              | 34.0  | 92.0                  | 93.0   | 69.6          | -     | 1.6                  | 5.0   | 28.0                  | 30.0   |
| 23        | 30.0                 | 36.0  | 31.0                 | 37.0   | 31.0                | 35.0  | 30.0              | 34.0  | 93.0                  | 93.0   | 47.0          | -     | 4.0                  | 4.8   | 26.0                  | 38.0   |
| 24        | 30.0                 | 35.0  | 31.0                 | 36.0   | 31.0                | 36.0  | 30.0              | 35.0  | 93.0                  | 93.0   | -             | -     | 4.0                  | 2.0   | 30.0                  | 34.0   |
| 25        | 25.0                 | 35.0  | 33.0                 | 36.0   | 26.0                | 34.0  | 25.0              | 33.0  | 92.0                  | 93.0   | 7.2           | -     | 3.7                  | 3.0   | 28.0                  | 32.0   |
| 26        | 26.0                 | 34.0  | 33.0                 | 35.0   | 26.0                | 31.0  | 25.0              | 30.0  | 92.0                  | 93.0   | 5.2           | -     | 3.2                  | 3.2   | 28.0                  | 27.0   |
| 27        | 26.0                 | 33.0  | 33.0                 | 34.0   | 26.0                | 32.0  | 25.0              | 31.0  | 92.0                  | 93.0   | 1.0           | 3.4   | 2.0                  | 3.4   | 27.0                  | 30.0   |
| 28        | 26.5                 | 22.0  | 32.5                 | 26.0   | 25.0                | 26.0  | 24.0              | 25.0  | 91.0                  | 92.0   | 1.2           | 19.4  | 1.0                  | 1.4   | 27.5                  | 28.0   |
| 29        | 26.0                 | 27.0  | 33.0                 | 28.0   | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | 5.6           | 0.2   | 0.8                  | 1.3   | 27.0                  | 33.0   |
| 30        | 25.0                 |       | 31.0                 |        | 27.0                |       | 26.0              |       | 92.0                  |        | -             |       | 1.0                  |       | 26.5                  |        |
| Total     | 836.5                | 946.0 | 995.5                | 1085.0 | 905.5               | 988.0 | 826.5             | 888.5 | 2457.0                | 2354.0 | 373.6         | 28.4  | 109.0                | 115.2 | 871.0                 | 1080.5 |
| Average   | 27.9                 | 31.5  | 33.2                 | 36.2   | 30.2                | 32.9  | 27.6              | 29.6  | 81.9                  | 78.5   |               |       |                      |       | 29.0                  | 36.0   |
|           | 29.7                 |       | 34.7                 |        | 31.6                |       | 28.6              |       | 80.2                  |        | 402.0         |       | 224.2                |       | 32.5                  |        |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| July 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|-----------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day       | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM       |                      | 26.0  |                      | 33.0  |                     | 27.0  |                   | 26.0  |                       | 92.0   |               | 18.4  |                      | 2.9   |                       | 32.0  |
| 1         | 26.5                 | 25.0  | 31.0                 | 28.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -             | -     | 1.6                  | 1.0   | 29.0                  | 32.0  |
| 2         | 25.0                 | 26.0  | 30.5                 | 30.0  | 29.0                | 26.0  | 27.0              | 25.5  | 85.0                  | 92.0   | -             | -     | 1.2                  | 2.0   | 29.5                  | 30.0  |
| 3         | 26.5                 | 25.0  | 31.5                 | 28.0  | 25.0                | 26.0  | 24.0              | 25.5  | 92.0                  | 92.0   | 18.8          | 8.6   | 1.4                  | 2.0   | 27.0                  | 28.0  |
| 4         | 25.0                 | 26.5  | 27.0                 | 29.0  | 25.5                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 8.4           | 5.4   | 2.0                  | 1.8   | 27.0                  | 26.5  |
| 5         | 26.5                 | 28.0  | 30.0                 | 30.0  | 28.0                | 27.5  | 25.0              | 27.0  | 77.0                  | 96.0   | 1.8           | 8.4   | 1.2                  | 1.4   | 26.5                  | 33.0  |
| 6         | 26.0                 | 29.0  | 31.0                 | 35.0  | 27.0                | 32.0  | 26.0              | 29.0  | 92.0                  | 79.0   | 5.4           | -     | 1.2                  | 2.0   | 28.0                  | 34.0  |
| 7         | 25.5                 | 29.0  | 32.5                 | 32.0  | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | -             | -     | 2.4                  | 1.8   | 27.5                  | 32.5  |
| 8         | 26.0                 | 28.0  | 31.0                 | 33.0  | 27.0                | 28.0  | 25.0              | 27.0  | 85.0                  | 92.0   | 4.4           | -     | 0.8                  | 2.2   | 27.0                  | 33.0  |
| 9         | 27.5                 | 28.5  | 32.0                 | 32.5  | 28.0                | 27.0  | 26.0              | 24.0  | 85.0                  | 77.0   | 36.4          | 2.0   | 2.4                  | 2.8   | 28.5                  | 35.0  |
| 10        | 26.5                 | 25.0  | 30.0                 | 28.0  | 29.0                | 27.0  | 28.0              | 26.0  | 92.0                  | 92.0   | 18.4          | -     | 2.4                  | 2.0   | 29.0                  | 32.0  |
| 11        | 25.0                 | 27.0  | 30.0                 | 35.0  | 29.0                | 28.0  | 27.0              | 27.0  | 85.0                  | 92.0   | -             | -     | 1.0                  | 3.0   | 28.5                  | 32.0  |
| 12        | 24.0                 | 28.0  | 28.0                 | 33.0  | 27.0                | 29.0  | 26.5              | 28.0  | 96.0                  | 96.0   | 1.2           | -     | 0.2                  | 3.0   | 28.0                  | 35.0  |
| 13        | 25.5                 | 27.0  | 31.0                 | 32.0  | 28.0                | 28.0  | 26.0              | 27.0  | 85.0                  | 92.0   | 5.2           | -     | 1.2                  | 1.4   | 27.0                  | 34.5  |
| 14        | 26.5                 | 25.0  | 30.0                 | 32.0  | 29.0                | 27.5  | 28.0              | 26.5  | 92.0                  | 92.0   | 39.6          | 53.0  | 1.6                  | 1.0   | 26.5                  | 31.0  |
| 15        | 25.0                 | 28.0  | 29.0                 | 34.0  | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -             | -     | 2.0                  | 2.0   | 27.5                  | 35.0  |
| 16        | 26.0                 | 26.0  | 30.0                 | 35.0  | 30.0                | 28.0  | 27.0              | 27.0  | 78.0                  | 92.0   | 0.2           | 3.4   | 1.2                  | 0.8   | 29.0                  | 34.0  |
| 17        | 27.0                 | 26.5  | 31.0                 | 34.0  | 29.0                | 29.0  | 28.0              | 28.0  | 92.0                  | 92.0   | 12.6          | -     | 0.6                  | 4.0   | 29.5                  | 35.0  |
| 18        | 26.5                 | 28.0  | 31.0                 | 35.0  | 28.0                | 28.0  | 27.0              | 26.0  | 92.0                  | 85.0   | -             | 27.6  | 2.0                  | 3.0   | 29.0                  | 33.5  |
| 19        | 25.0                 | 27.0  | 29.5                 | 33.5  | 27.0                | 26.0  | 24.0              | 22.0  | 77.0                  | 69.0   | -             | -     | 1.3                  | 2.2   | 29.5                  | 34.0  |
| 20        | 26.5                 | 28.0  | 31.0                 | 35.0  | 29.0                | 24.0  | 28.0              | 20.0  | 92.0                  | 68.0   | 43.6          | 0.2   | 3.6                  | 1.5   | 28.0                  | 32.0  |
| 21        | 27.0                 | 26.0  | 29.0                 | 34.0  | 26.0                | 29.5  | 23.0              | 27.5  | 76.0                  | 85.0   | -             | -     | 2.4                  | 1.0   | 29.0                  | 33.0  |
| 22        | 26.0                 | 28.0  | 32.0                 | 33.0  | 27.0                | 28.0  | 26.5              | 27.0  | 96.0                  | 92.0   | 2.2           | -     | 2.2                  | 2.0   | 28.0                  | 33.5  |
| 23        | 25.0                 | 25.0  | 30.0                 | 29.0  | 25.0                | 25.0  | 21.0              | 24.5  | 68.0                  | 96.0   | 9.2           | 17.2  | 1.2                  | 3.2   | 26.5                  | 29.5  |
| 24        | 24.5                 | 26.0  | 29.0                 | 28.0  | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | 5.4           | 16.0  | 1.2                  | 2.6   | 25.0                  | 25.5  |
| 25        | 26.0                 | 25.0  | 28.5                 | 28.0  | 27.0                | 26.0  | 26.0              | 24.0  | 92.0                  | 84.0   | 0.4           | -     | 1.4                  | 1.0   | 25.5                  | 30.0  |
| 26        | 26.5                 | 27.0  | 27.5                 | 29.5  | 29.0                | 28.5  | 25.0              | 26.5  | 71.0                  | 85.0   | -             | 5.6   | 2.0                  | 1.6   | 27.0                  | 29.5  |
| 27        | 24.0                 | 26.0  | 29.0                 | 28.5  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | 10.2          | -     | 0.2                  | 1.0   | 26.5                  | 28.5  |
| 28        | 26.5                 | 26.5  | 28.0                 | 31.0  | 28.0                | 28.0  | 26.0              | 22.0  | 85.0                  | 57.0   | 7.0           | -     | 1.0                  | 1.0   | 27.5                  | 31.0  |
| 29        | 25.0                 | 27.0  | 29.0                 | 30.0  | 29.0                | 28.0  | 27.0              | 26.0  | 85.0                  | 85.0   | -             | -     | 1.2                  | 3.0   | 30.0                  | 34.0  |
| 30        | 26.0                 | 28.0  | 29.5                 | 30.0  | 27.0                | 26.0  | 25.0              | 23.0  | 84.0                  | 76.0   | -             | -     | 1.4                  | 2.0   | 28.0                  | 32.0  |
| 31        | 25.5                 |       | 28.5                 |       | 24.0                |       | 22.0              |       | 83.0                  |        | -             |       | 1.8                  |       | 27.5                  |       |
| Total     | 800.0                | 831.0 | 927.0                | 978.0 | 852.5               | 856.0 | 799.0             | 799.0 | 2682.0                | 2657.0 | 230.4         | 165.8 | 47.3                 | 62.2  | 862.0                 | 990.5 |
| Average   | 25.8                 | 26.8  | 29.9                 | 31.5  | 27.5                | 27.6  | 25.8              | 25.8  | 86.5                  | 85.7   |               |       |                      |       | 27.8                  | 32.0  |
|           | 26.3                 |       | 30.7                 |       | 27.6                |       | 25.8              |       | 86.1                  |        | 396.2         |       | 109.5                |       | 29.9                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| <u>August 2017</u> |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|--------------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|                    | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day                | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM                |                      | 29.0  |                      | 34.0  |                     | 28.0  |                   | 27.5  |                       | 96.0   |               | -     |                      | 2.2   |                       | 30.5  |
| 1                  | 29.5                 | 30.0  | 33.0                 | 34.0  | 24.0                | 26.0  | 22.0              | 24.0  | 83.0                  | 84.0   | -             | 0.4   | 1.6                  | 2.4   | 28.0                  | 33.0  |
| 2                  | 26.0                 | 28.0  | 31.0                 | 33.0  | 25.0                | 27.0  | 23.0              | 24.0  | 84.0                  | 77.0   | -             | -     | 1.2                  | 3.0   | 29.5                  | 32.5  |
| 3                  | 25.5                 | 29.5  | 30.0                 | 35.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | 0.4           | -     | 1.8                  | 1.8   | 28.5                  | 31.0  |
| 4                  | 27.0                 | 27.5  | 31.0                 | 33.0  | 26.0                | 27.0  | 24.0              | 24.0  | 84.0                  | 77.0   | 0.6           | 14.4  | 1.6                  | 2.2   | 27.0                  | 30.5  |
| 5                  | 26.0                 | 28.0  | 31.0                 | 32.0  | 25.0                | 26.0  | 21.0              | 23.0  | 68.0                  | 76.0   | 1.4           | 28.0  | 1.4                  | 2.0   | 26.5                  | 29.0  |
| 6                  | 25.0                 | 29.0  | 30.0                 | 31.0  | 24.0                | 28.0  | 20.0              | 27.0  | 68.0                  | 92.0   | 1.4           | 15.2  | 1.6                  | 1.2   | 26.5                  | 32.0  |
| 7                  | 26.5                 | 29.5  | 29.0                 | 32.0  | 23.0                | 26.0  | 20.0              | 24.0  | 75.0                  | 84.0   | 23.2          | -     | 1.2                  | 1.8   | 27.0                  | 31.0  |
| 8                  | 25.5                 | 28.0  | 30.0                 | 31.0  | 28.0                | 26.0  | 25.0              | 24.0  | 77.0                  | 84.0   | -             | -     | 1.0                  | 1.4   | 26.5                  | 30.5  |
| 9                  | 26.0                 | 29.0  | 31.0                 | 32.0  | 27.0                | 25.0  | 26.0              | 23.0  | 92.0                  | 84.0   | -             | 55.0  | 2.0                  | 2.0   | 28.0                  | 29.5  |
| 10                 | 26.5                 | 29.0  | 30.0                 | 31.0  | 28.0                | 29.0  | 25.0              | 27.0  | 77.0                  | 85.0   | 2.0           | -     | 1.0                  | 1.8   | 27.5                  | 29.0  |
| 11                 | 25.5                 | 28.5  | 30.0                 | 32.0  | 24.0                | 26.0  | 23.0              | 25.0  | 91.0                  | 92.0   | -             | -     | 2.0                  | 1.6   | 26.5                  | 28.5  |
| 12                 | 25.0                 | 27.0  | 29.5                 | 30.0  | 27.0                | 29.0  | 26.5              | 27.0  | 96.0                  | 85.0   | 1.2           | 0.4   | 1.6                  | 1.0   | 26.0                  | 28.0  |
| 13                 | 26.5                 | 27.5  | 30.0                 | 31.0  | 25.0                | 27.0  | 24.0              | 24.0  | 92.0                  | 77.0   | 16.4          | 0.2   | 2.4                  | 1.4   | 27.0                  | 27.5  |
| 14                 | 27.0                 | 27.0  | 31.0                 | 32.0  | 28.0                | 26.0  | 25.0              | 22.0  | 77.0                  | 69.0   | -             | 0.2   | 2.0                  | 1.2   | 26.0                  | 28.0  |
| 15                 | 28.0                 | 28.0  | 30.0                 | 33.0  | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | -             | -     | 3.0                  | 2.2   | 28.5                  | 29.0  |
| 16                 | 26.5                 | 29.0  | 29.0                 | 34.0  | 26.0                | 27.0  | 24.0              | 23.0  | 84.0                  | 70.0   | 1.0           | 11.4  | 1.6                  | 0.4   | 27.0                  | 28.0  |
| 17                 | 27.0                 | 28.5  | 30.0                 | 33.5  | 28.0                | 26.0  | 27.0              | 24.0  | 92.0                  | 84.0   | 174.8         | 0.2   | 1.8                  | 0.8   | 26.5                  | 28.5  |
| 18                 | 26.5                 | 27.0  | 31.0                 | 30.0  | 29.0                | 25.0  | 27.5              | 24.0  | 89.0                  | 92.0   | 4.8           | 1.0   | 1.2                  | 1.4   | 26.0                  | 28.0  |
| 19                 | 27.0                 | 28.0  | 31.0                 | 31.0  | 29.0                | 28.0  | 28.0              | 27.0  | 92.0                  | 92.0   | -             | -     | 1.8                  | 1.6   | 26.5                  | 27.0  |
| 20                 | 26.0                 | 27.5  | 30.0                 | 31.0  | 25.0                | 26.0  | 23.0              | 25.5  | 84.0                  | 96.0   | -             | -     | 1.4                  | 1.2   | 27.5                  | 28.0  |
| 21                 | 26.5                 | 27.0  | 31.0                 | 32.0  | 29.0                | 29.0  | 25.0              | 27.0  | 71.0                  | 85.0   | 0.2           | -     | 1.8                  | 1.8   | 27.0                  | 28.5  |
| 22                 | 27.0                 | 28.0  | 29.5                 | 31.0  | 26.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 92.0   | -             | -     | 2.0                  | 1.4   | 26.5                  | 29.0  |
| 23                 | 26.0                 | 29.0  | 29.0                 | 32.0  | 25.0                | 28.0  | 24.0              | 27.0  | 92.0                  | 92.0   | -             | -     | 1.6                  | 2.0   | 27.0                  | 28.0  |
| 24                 | 25.5                 | 29.5  | 28.0                 | 31.0  | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | -             | -     | 1.2                  | 2.2   | 27.5                  | 27.0  |
| 25                 | 27.0                 | 29.0  | 30.0                 | 31.0  | 29.0                | 29.0  | 28.0              | 27.0  | 92.0                  | 85.0   | -             | -     | 1.8                  | 1.6   | 28.0                  | 28.5  |
| 26                 | 26.5                 | 28.0  | 31.0                 | 32.0  | 28.0                | 26.0  | 26.0              | 25.0  | 85.0                  | 92.0   | -             | -     | 1.4                  | 1.2   | 27.0                  | 28.0  |
| 27                 | 27.0                 | 29.0  | 30.0                 | 33.0  | 28.0                | 25.0  | 25.0              | 22.0  | 77.0                  | 76.0   | -             | 1.0   | 1.8                  | 1.4   | 27.5                  | 28.0  |
| 28                 | 28.0                 | 30.0  | 31.0                 | 35.0  | 29.0                | 28.0  | 27.0              | 27.0  | 85.0                  | 92.0   | -             | 6.6   | 1.6                  | 0.6   | 28.0                  | 28.0  |
| 29                 | 27.0                 | 29.0  | 31.5                 | 32.0  | 24.0                | 23.0  | 23.0              | 21.0  | 91.0                  | 83.0   | -             | -     | 1.8                  | 1.4   | 28.0                  | 28.0  |
| 30                 | 26.5                 | 28.0  | 30.0                 | 33.0  | 25.0                | 29.0  | 24.0              | 26.0  | 92.0                  | 78.0   | -             | -     | 2.2                  | 1.2   | 27.0                  | 28.0  |
| 31                 | 28.0                 |       | 31.0                 |       | 26.0                |       | 23.0              |       | 76.0                  |        | -             |       | 2.0                  |       | 28.0                  |       |
| Total              | 823.5                | 881.0 | 939.5                | 997.5 | 822.0               | 835.0 | 762.0             | 775.0 | 2618.0                | 2632.0 | 227.4         | 134.0 | 52.4                 | 49.4  | 844.0                 | 900.0 |
| Average            | 26.6                 | 28.4  | 30.3                 | 32.2  | 26.5                | 26.9  | 24.6              | 25.0  | 84.5                  | 84.9   |               |       |                      |       | 27.2                  | 29.0  |
|                    | 27.5                 |       | 31.2                 |       | 26.7                |       | 24.8              |       | 84.7                  |        | 361.4         |       | 101.8                |       | 28.1                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| September 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|----------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|                | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day            | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM            |                      | 29.0  |                      | 34.0   |                     | 29.0  |                   | 27.0  |                       | 85.0   |               | -     |                      | 1.6   |                       | 28.5  |
| 1              | 25.0                 | 28.0  | 31.0                 | 33.0   | 26.0                | 29.0  | 24.0              | 28.0  | 84.0                  | 92.0   | -             | 1.6   | 2.0                  | 0.4   | 27.0                  | 26.5  |
| 2              | 26.5                 | 29.0  | 32.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 29.0  | 84.0                  | 93.0   | -             | 25.0  | 1.8                  | 1.0   | 28.5                  | 27.0  |
| 3              | 27.0                 | 29.0  | 34.0                 | 35.0   | 30.0                | 29.0  | 28.0              | 28.0  | 85.0                  | 92.0   | -             | -     | 1.4                  | 1.0   | 28.0                  | 27.5  |
| 4              | 27.5                 | 28.0  | 34.5                 | 36.0   | 30.0                | 30.0  | 28.0              | 27.0  | 85.0                  | 78.0   | -             | -     | 1.2                  | 1.8   | 28.5                  | 27.0  |
| 5              | 28.0                 | 30.0  | 31.0                 | 37.0   | 28.0                | 32.0  | 26.0              | 29.0  | 85.0                  | 79.0   | -             | -     | 1.0                  | 2.0   | 27.0                  | 29.5  |
| 6              | 29.0                 | 30.0  | 32.0                 | 35.0   | 30.0                | 29.0  | 25.0              | 28.0  | 65.0                  | 92.0   | -             | -     | 2.4                  | 1.6   | 29.0                  | 30.0  |
| 7              | 27.5                 | 29.5  | 31.0                 | 34.0   | 27.0                | 28.0  | 23.0              | 26.0  | 70.0                  | 85.0   | -             | -     | 2.0                  | 1.2   | 30.5                  | 28.5  |
| 8              | 28.0                 | 29.0  | 33.0                 | 36.0   | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | -             | -     | 2.2                  | 2.0   | 30.0                  | 29.0  |
| 9              | 29.0                 | 29.0  | 32.0                 | 35.0   | 25.0                | 28.0  | 23.0              | 25.0  | 84.0                  | 77.0   | -             | -     | 1.2                  | 1.4   | 29.5                  | 30.5  |
| 10             | 29.0                 | 28.0  | 34.0                 | 34.0   | 27.0                | 25.0  | 23.0              | 22.0  | 70.0                  | 76.0   | 49.6          | 0.2   | 1.6                  | 1.6   | 28.0                  | 30.0  |
| 11             | 27.0                 | 29.5  | 35.0                 | 33.0   | 29.0                | 26.0  | 28.0              | 25.0  | 92.0                  | 92.0   | -             | -     | 1.4                  | 1.2   | 30.0                  | 29.5  |
| 12             | 28.0                 | 29.5  | 33.0                 | 32.0   | 29.0                | 29.0  | 27.0              | 25.0  | 85.0                  | 71.0   | -             | -     | 1.8                  | 2.0   | 31.0                  | 30.0  |
| 13             | 29.0                 | 29.0  | 33.0                 | 35.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | -             | -     | 1.2                  | 1.6   | 30.5                  | 29.0  |
| 14             | 28.5                 | 30.0  | 32.0                 | 36.0   | 25.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 77.0   | 25.4          | -     | 1.4                  | 1.2   | 31.0                  | 28.5  |
| 15             | 27.5                 | 30.0  | 31.0                 | 35.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -             | -     | 1.2                  | 1.6   | 29.5                  | 29.0  |
| 16             | 28.0                 | 31.0  | 32.0                 | 36.0   | 29.0                | 28.0  | 27.0              | 26.0  | 85.0                  | 85.0   | -             | -     | 1.8                  | 1.4   | 29.0                  | 30.0  |
| 17             | 27.0                 | 30.0  | 31.0                 | 35.0   | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | -             | 2.6   | 2.0                  | 0.6   | 29.5                  | 31.0  |
| 18             | 28.0                 | 31.0  | 33.0                 | 37.0   | 28.0                | 29.0  | 25.0              | 27.0  | 77.0                  | 85.0   | 9.0           | 2.2   | -                    | 0.4   | 28.0                  | 30.0  |
| 19             | 28.5                 | 30.0  | 34.0                 | 36.0   | 27.0                | 28.0  | 25.0              | 27.0  | 84.0                  | 92.0   | 37.4          | 5.2   | 1.4                  | 1.2   | 29.0                  | 30.5  |
| 20             | 28.0                 | 29.0  | 33.0                 | 35.0   | 26.0                | 27.0  | 22.0              | 24.0  | 69.0                  | 77.0   | 37.6          | 22.8  | 1.6                  | 1.8   | 28.5                  | 30.0  |
| 21             | 28.5                 | 30.0  | 30.0                 | 36.0   | 29.0                | 29.0  | 27.0              | 26.0  | 85.0                  | 78.0   | 1.2           | -     | 1.8                  | 1.4   | 29.0                  | 29.5  |
| 22             | 29.5                 | 30.0  | 32.0                 | 37.0   | 25.0                | 25.0  | 24.0              | 24.0  | 92.0                  | 92.0   | -             | -     | 1.2                  | 1.6   | 29.0                  | 30.5  |
| 23             | 27.0                 | 29.0  | 33.0                 | 34.0   | 26.0                | 26.0  | 22.0              | 25.0  | 69.0                  | 92.0   | -             | -     | 1.8                  | 1.2   | 29.5                  | 31.0  |
| 24             | 28.0                 | 29.5  | 32.0                 | 35.0   | 29.0                | 27.0  | 28.0              | 24.0  | 92.0                  | 77.0   | -             | -     | 1.4                  | 1.4   | 29.0                  | 30.5  |
| 25             | 27.0                 | 30.0  | 33.0                 | 35.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -             | -     | 1.8                  | 2.0   | 29.5                  | 31.0  |
| 26             | 28.0                 | 29.0  | 34.0                 | 35.0   | 27.0                | 26.0  | 23.0              | 25.0  | 70.0                  | 92.0   | -             | -     | 1.2                  | 1.8   | 29.0                  | 30.5  |
| 27             | 27.0                 | 29.5  | 33.0                 | 34.0   | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -             | -     | 1.4                  | 1.6   | 28.5                  | 30.0  |
| 28             | 28.0                 | 30.0  | 35.0                 | 37.0   | 26.0                | 25.0  | 24.0              | 22.0  | 84.0                  | 76.0   | -             | -     | 1.2                  | 1.2   | 29.0                  | 31.0  |
| 29             | 28.5                 | 31.0  | 34.0                 | 37.0   | 29.0                | 26.0  | 27.0              | 25.0  | 85.0                  | 92.0   | -             | -     | 1.4                  | 1.4   | 30.0                  | 30.5  |
| 30             | 29.0                 |       | 35.0                 |        | 30.0                |       | 28.0              |       | 85.0                  |        | -             |       | 1.6                  |       | 31.0                  |       |
| Total          | 836.5                | 885.5 | 982.5                | 1053.0 | 824.0               | 837.0 | 759.0             | 777.0 | 2503.0                | 2543.0 | 160.2         | 59.6  | 45.4                 | 42.2  | 875.5                 | 886.0 |
| Average        | 27.9                 | 29.5  | 32.8                 | 35.1   | 27.5                | 27.9  | 25.3              | 25.9  | 83.4                  | 84.8   |               |       |                      |       | 29.2                  | 29.5  |
|                | 28.7                 |       | 33.9                 |        | 27.7                |       | 25.6              |       | 84.1                  |        | 219.8         |       | 87.6                 |       | 29.4                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| <u>October 2017</u> |                      |       |                      |        |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|                     | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day                 | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM               |                      | 30.0  |                      | 37.0   |                     | 25.0  |                   | 24.0  |                       | 92.0   |               | 0.6   |                      | 1.0   |                       | 30.0  |
| 1                   | 29.0                 | 29.5  | 33.0                 | 35.0   | 26.0                | 28.0  | 23.0              | 26.0  | 76.0                  | 85.0   | 16.0          | 0.2   | 2.0                  | 1.2   | 29.0                  | 28.0  |
| 2                   | 30.0                 | 30.0  | 37.0                 | 38.0   | 29.0                | 25.0  | 26.0              | 24.0  | 78.0                  | 92.0   | 0.2           | -     | 1.2                  | 2.0   | 29.5                  | 28.5  |
| 3                   | 28.0                 | 29.0  | 35.0                 | 37.0   | 29.0                | 26.0  | 28.0              | 24.0  | 92.0                  | 84.0   | -             | -     | 1.4                  | 1.8   | 29.0                  | 29.0  |
| 4                   | 27.5                 | 29.0  | 33.0                 | 35.0   | 30.0                | 26.0  | 27.0              | 25.0  | 78.0                  | 92.0   | -             | 1.8   | 1.2                  | 0.4   | 30.0                  | 29.5  |
| 5                   | 27.0                 | 29.5  | 32.0                 | 34.0   | 29.0                | 28.0  | 26.0              | 24.0  | 78.0                  | 70.0   | -             | 0.6   | 2.0                  | 1.6   | 31.0                  | 30.0  |
| 6                   | 26.0                 | 29.0  | 31.0                 | 35.0   | 28.0                | 27.0  | 25.0              | 25.0  | 77.0                  | 84.0   | -             | -     | 1.4                  | 1.8   | 30.5                  | 29.5  |
| 7                   | 27.0                 | 28.0  | 32.0                 | 34.0   | 26.0                | 29.0  | 23.0              | 27.0  | 76.0                  | 85.0   | -             | -     | 1.2                  | 1.4   | 30.0                  | 29.0  |
| 8                   | 27.5                 | 27.0  | 31.0                 | 32.0   | 25.0                | 26.0  | 23.0              | 25.0  | 84.0                  | 92.0   | -             | -     | 1.8                  | 2.0   | 28.5                  | 30.5  |
| 9                   | 27.0                 | 25.0  | 30.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 28.0  | 84.0                  | 85.0   | -             | -     | 1.2                  | 2.0   | 30.0                  | 35.0  |
| 10                  | 28.0                 | 26.0  | 32.0                 | 33.0   | 29.0                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | 4.2           | -     | 1.2                  | 1.0   | 29.0                  | 34.0  |
| 11                  | 29.0                 | 24.5  | 33.0                 | 34.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -             | -     | 2.2                  | 1.4   | 30.0                  | 33.0  |
| 12                  | 28.0                 | 25.0  | 34.0                 | 33.0   | 29.0                | 27.0  | 26.0              | 24.0  | 78.0                  | 77.0   | -             | -     | 2.0                  | 1.6   | 29.5                  | 32.5  |
| 13                  | 29.0                 | 26.0  | 33.0                 | 35.0   | 26.0                | 28.0  | 22.0              | 26.0  | 69.0                  | 85.0   | -             | -     | 1.2                  | 2.0   | 29.0                  | 31.0  |
| 14                  | 29.0                 | 25.5  | 31.0                 | 34.0   | 27.0                | 25.0  | 26.0              | 23.0  | 92.0                  | 84.0   | -             | -     | 1.4                  | 2.2   | 30.0                  | 30.5  |
| 15                  | 28.0                 | 25.0  | 32.0                 | 35.0   | 26.0                | 28.0  | 23.0              | 27.0  | 76.0                  | 92.0   | -             | -     | 1.2                  | 1.4   | 31.0                  | 32.0  |
| 16                  | 29.0                 | 26.0  | 33.0                 | 33.0   | 25.0                | 27.0  | 22.0              | 25.0  | 76.0                  | 84.0   | -             | -     | 1.8                  | 2.0   | 29.0                  | 31.5  |
| 17                  | 28.0                 | 27.0  | 31.0                 | 34.0   | 27.0                | 29.0  | 26.0              | 26.0  | 92.0                  | 78.0   | -             | -     | 1.2                  | 1.8   | 30.0                  | 30.0  |
| 18                  | 28.5                 | 27.0  | 32.0                 | 33.0   | 26.0                | 28.0  | 24.0              | 22.0  | 84.0                  | 57.0   | -             | -     | 1.0                  | 1.6   | 29.0                  | 28.5  |
| 19                  | 29.0                 | 28.0  | 33.0                 | 35.0   | 27.0                | 27.0  | 25.0              | 24.0  | 84.0                  | 77.0   | -             | -     | 1.6                  | 1.4   | 30.5                  | 31.0  |
| 20                  | 28.0                 | 26.0  | 32.0                 | 32.0   | 29.0                | 27.0  | 28.0              | 24.0  | 92.0                  | 77.0   | -             | 2.4   | 1.0                  | 1.4   | 29.5                  | 30.0  |
| 21                  | 28.5                 | 27.0  | 34.0                 | 31.0   | 25.0                | 29.0  | 24.0              | 27.0  | 92.0                  | 85.0   | -             | -     | 1.2                  | 1.0   | 29.0                  | 30.5  |
| 22                  | 29.0                 | 27.0  | 32.0                 | 33.0   | 26.0                | 28.0  | 23.0              | 25.0  | 76.0                  | 77.0   | -             | -     | 1.6                  | 2.0   | 29.0                  | 31.0  |
| 23                  | 29.5                 | 30.0  | 30.0                 | 35.0   | 24.0                | 29.0  | 23.0              | 28.0  | 91.0                  | 92.0   | -             | -     | 1.4                  | 1.4   | 29.5                  | 29.0  |
| 24                  | 29.0                 | 30.0  | 31.0                 | 34.0   | 27.0                | 28.0  | 25.0              | 27.0  | 84.0                  | 92.0   | -             | -     | 1.2                  | 1.2   | 30.0                  | 29.5  |
| 25                  | 28.0                 | 30.5  | 30.0                 | 36.0   | 25.0                | 27.0  | 22.0              | 24.0  | 76.0                  | 77.0   | -             | -     | 2.0                  | 1.6   | 29.0                  | 30.5  |
| 26                  | 29.0                 | 31.0  | 32.0                 | 37.0   | 29.0                | 28.0  | 28.0              | 25.0  | 92.0                  | 77.0   | -             | -     | 2.4                  | 1.6   | 28.5                  | 30.0  |
| 27                  | 28.5                 | 30.0  | 33.0                 | 35.0   | 26.0                | 24.0  | 25.0              | 22.0  | 92.0                  | 83.0   | -             | -     | 2.2                  | 1.8   | 29.0                  | 28.5  |
| 28                  | 29.0                 | 31.0  | 31.0                 | 34.0   | 28.0                | 29.0  | 27.0              | 27.0  | 92.0                  | 85.0   | -             | -     | 2.0                  | 2.2   | 29.5                  | 29.0  |
| 29                  | 29.5                 | 30.0  | 31.0                 | 37.0   | 25.0                | 27.0  | 24.0              | 24.0  | 92.0                  | 77.0   | -             | -     | 1.8                  | 2.0   | 30.0                  | 30.5  |
| 30                  | 29.0                 | 29.0  | 32.0                 | 35.0   | 26.0                | 25.0  | 25.0              | 23.0  | 92.0                  | 84.0   | -             | -     | 1.2                  | 1.8   | 30.0                  | 30.0  |
| 31                  | 28.0                 |       | 33.0                 |        | 28.0                |       | 25.0              |       | 77.0                  |        | -             |       | 1.4                  |       | 30.0                  |       |
| Total               | 879.5                | 867.5 | 999.0                | 1069.0 | 835.0               | 847.0 | 771.0             | 778.0 | 2599.0                | 2571.0 | 20.4          | 5.6   | 47.6                 | 49.6  | 917.5                 | 941.5 |
| Average             | 28.4                 | 28.0  | 32.2                 | 34.5   | 26.9                | 27.3  | 24.9              | 25.1  | 83.8                  | 82.9   |               |       |                      |       | 29.6                  | 30.4  |
|                     | 28.2                 |       | 33.4                 |        | 27.1                |       | 25.0              |       | 83.4                  |        | 26.0          |       | 97.2                 |       | 30.0                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| November 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 30.0  |                      | 37.0  |                     | 29.0  |                   | 28.0  |                       | 92.0   |               | -     |                      | 1.6   |                       | 29.5  |
| 1             | 26.0                 | 28.0  | 31.0                 | 29.0  | 28.0                | 26.0  | 25.0              | 24.0  | 77.0                  | 79.0   | -             | -     | 2.0                  | 1.0   | 25.0                  | 30.5  |
| 2             | 25.0                 | 21.0  | 31.0                 | 32.0  | 24.0                | 25.0  | 23.0              | 23.0  | 91.0                  | 84.0   | -             | -     | 2.0                  | 1.0   | 24.0                  | 31.0  |
| 3             | 23.0                 | 27.0  | 28.0                 | 29.0  | 26.0                | 27.0  | 23.0              | 23.0  | 76.0                  | 70.0   | -             | -     | 2.0                  | 2.0   | 25.0                  | 31.0  |
| 4             | 20.0                 | 26.0  | 28.0                 | 28.0  | 26.0                | 27.0  | 22.0              | 23.0  | 69.0                  | 70.0   | -             | -     | 2.0                  | 1.0   | 24.0                  | 28.0  |
| 5             | 20.0                 | 21.0  | 31.0                 | 35.0  | 24.0                | 25.0  | 22.0              | 24.0  | 83.0                  | 92.0   | -             | -     | 2.0                  | 4.0   | 25.0                  | 32.0  |
| 6             | 22.0                 | 28.0  | 29.0                 | 36.0  | 26.0                | 28.0  | 24.0              | 24.0  | 84.0                  | 84.0   | -             | -     | 2.0                  | 3.0   | 26.0                  | 31.0  |
| 7             | 21.0                 | 27.5  | 30.0                 | 29.5  | 26.0                | 27.0  | 23.0              | 24.0  | 76.0                  | 77.0   | -             | -     | 1.0                  | 4.0   | 25.0                  | 34.0  |
| 8             | 20.0                 | 27.0  | 27.0                 | 35.0  | 25.0                | 26.0  | 23.0              | 23.0  | 84.0                  | 76.0   | -             | -     | 1.0                  | 4.0   | 25.0                  | 35.0  |
| 9             | 21.0                 | 25.0  | 25.0                 | 31.5  | 23.0                | 26.0  | 21.0              | 23.0  | 83.0                  | 76.0   | -             | -     | 1.0                  | 2.0   | 24.0                  | 35.0  |
| 10            | 19.0                 | 24.0  | 28.0                 | 29.0  | 23.0                | 25.0  | 21.0              | 22.0  | 83.0                  | 76.0   | -             | -     | 1.0                  | 4.0   | 23.0                  | 34.0  |
| 11            | 18.0                 | 27.0  | 28.0                 | 35.0  | 25.0                | 26.0  | 21.0              | 23.0  | 68.0                  | 76.0   | -             | -     | 1.0                  | 2.8   | 24.0                  | 35.0  |
| 12            | 24.0                 | 25.0  | 30.0                 | 33.0  | 23.0                | 27.0  | 21.0              | 24.0  | 77.0                  | 83.0   | -             | -     | 4.0                  | 2.0   | 23.0                  | 34.0  |
| 13            | 22.0                 | 22.0  | 32.0                 | 33.0  | 25.0                | 24.0  | 21.0              | 23.0  | 68.0                  | 91.0   | -             | -     | 6.0                  | 3.0   | 25.0                  | 28.0  |
| 14            | 21.0                 | 27.0  | 32.0                 | 32.0  | 24.0                | 27.0  | 23.0              | 23.0  | 91.0                  | 70.0   | -             | -     | 5.0                  | 2.0   | 23.0                  | 30.0  |
| 15            | 23.0                 | 28.0  | 31.0                 | 30.0  | 23.0                | 26.0  | 22.0              | 22.5  | 91.0                  | 73.0   | -             | -     | 1.0                  | 2.0   | 22.0                  | 28.0  |
| 16            | 23.0                 | 25.0  | 28.0                 | 33.0  | 23.0                | 27.0  | 21.0              | 24.0  | 83.0                  | 83.0   | -             | 2.4   | 2.0                  | 2.4   | 23.0                  | 26.0  |
| 17            | 23.0                 | 22.0  | 26.0                 | 29.0  | 23.0                | 26.0  | 22.0              | 24.0  | 91.0                  | 83.0   | 1.2           | -     | 3.8                  | 2.0   | 23.0                  | 27.0  |
| 18            | 25.0                 | 26.0  | 28.0                 | 29.0  | 27.0                | 25.0  | 24.0              | 24.0  | 77.0                  | 91.0   | -             | -     | 2.9                  | 1.8   | 23.5                  | 29.0  |
| 19            | 22.0                 | 28.0  | 28.0                 | 30.0  | 23.0                | 26.0  | 22.0              | 24.0  | 91.0                  | 84.0   | -             | -     | 2.2                  | 2.3   | 24.0                  | 30.0  |
| 20            | 26.0                 | 27.0  | 29.0                 | 29.0  | 25.0                | 29.0  | 24.0              | 26.0  | 92.0                  | 78.0   | -             | -     | 1.0                  | 3.0   | 27.0                  | 29.0  |
| 21            | 22.0                 | 27.0  | 25.0                 | 30.0  | 25.0                | 26.0  | 21.0              | 23.0  | 68.0                  | 76.0   | -             | -     | 1.0                  | 2.0   | 26.0                  | 30.0  |
| 22            | 20.0                 | 26.0  | 22.0                 | 29.0  | 23.0                | 25.0  | 19.0              | 23.0  | 68.0                  | 84.0   | -             | -     | 1.0                  | 1.0   | 24.0                  | 29.0  |
| 23            | 19.0                 | 25.0  | 26.0                 | 30.0  | 23.0                | 25.0  | 19.0              | 22.0  | 68.0                  | 76.0   | -             | -     | 1.0                  | 3.0   | 23.0                  | 31.0  |
| 24            | 20.0                 | 24.0  | 25.0                 | 29.0  | 21.0                | 24.0  | 19.0              | 21.0  | 82.0                  | 75.0   | -             | -     | 1.0                  | 4.0   | 22.0                  | 28.0  |
| 25            | 18.0                 | 24.0  | 24.0                 | 29.0  | 22.0                | 22.0  | 19.0              | 20.0  | 74.0                  | 82.0   | -             | -     | 1.0                  | 3.0   | 23.0                  | 29.0  |
| 26            | 16.0                 | 21.0  | 23.0                 | 30.0  | 19.0                | 25.0  | 17.0              | 23.0  | 81.0                  | 84.0   | -             | -     | 1.0                  | 2.0   | 20.0                  | 27.0  |
| 27            | 19.0                 | 22.0  | 22.0                 | 29.0  | 21.0                | 22.0  | 18.0              | 20.0  | 73.0                  | 82.0   | -             | -     | 1.0                  | 3.0   | 21.0                  | 28.0  |
| 28            | 15.0                 | 24.0  | 23.0                 | 31.0  | 22.0                | 23.0  | 19.0              | 20.0  | 74.0                  | 75.0   | -             | -     | 0.5                  | 2.0   | 18.0                  | 28.0  |
| 29            | 15.0                 | 22.0  | 24.0                 | 30.0  | 20.0                | 24.0  | 18.0              | 20.0  | 81.0                  | 68.0   | -             | -     | 1.0                  | 2.0   | 17.0                  | 27.0  |
| 30            | 15.0                 |       | 25.0                 |       | 21.0                |       | 19.0              |       | 82.0                  |        | -             |       | 1.0                  |       | 15.0                  |       |
| Total         | 623.0                | 756.5 | 819.0                | 931.0 | 709.0               | 770.0 | 636.0             | 690.5 | 2386.0                | 2390.0 | 1.2           | 2.4   | 54.4                 | 72.9  | 692.5                 | 904.0 |
| Average       | 20.8                 | 25.2  | 27.3                 | 31.0  | 23.6                | 25.7  | 21.2              | 23.0  | 79.5                  | 79.7   |               |       |                      |       | 23.1                  | 30.1  |
|               | 23.0                 |       | 29.2                 |       | 24.7                |       | 22.1              |       | 79.6                  |        | 3.6           |       | 127.3                |       | 26.6                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| <b>December 2017</b> |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|----------------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|                      | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day                  | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM                  |                      | 23.0  |                      | 29.0  |                     | 23.0  |                   | 20.0  |                       | 75.0   |               | -     |                      | 2.0   |                       | 26.0  |
| 1                    | 21.0                 | 22.0  | 26.0                 | 27.0  | 20.0                | 24.0  | 18.0              | 20.0  | 81.0                  | 83.0   | -             | -     | 1.0                  | 4.0   | 20.0                  | 27.0  |
| 2                    | 16.0                 | 20.0  | 30.0                 | 28.0  | 18.0                | 20.0  | 17.0              | 18.0  | 90.0                  | 81.0   | -             | -     | 1.0                  | 2.0   | 18.0                  | 26.0  |
| 3                    | 15.0                 | 15.0  | 18.0                 | 28.0  | 19.0                | 19.0  | 17.0              | 17.0  | 81.0                  | 48.0   | -             | -     | 1.0                  | 2.0   | 19.0                  | 26.0  |
| 4                    | 15.0                 | 21.0  | 24.0                 | 28.0  | 19.0                | 23.0  | 17.0              | 20.0  | 81.0                  | 79.0   | -             | -     | 1.0                  | 4.0   | 19.0                  | 26.0  |
| 5                    | 15.0                 | 21.0  | 25.0                 | 27.0  | 19.0                | 22.0  | 17.0              | 19.0  | 81.0                  | 74.0   | -             | -     | 1.0                  | 3.0   | 19.0                  | 25.0  |
| 6                    | 20.0                 | 22.0  | 24.0                 | 27.0  | 20.0                | 23.0  | 18.0              | 21.0  | 81.0                  | 83.0   | -             | -     | 1.0                  | 3.0   | 20.0                  | 27.0  |
| 7                    | 17.0                 | 21.0  | 23.0                 | 28.0  | 20.0                | 23.0  | 19.0              | 20.0  | 91.0                  | 79.0   | -             | -     | 1.0                  | 3.0   | 20.0                  | 26.5  |
| 8                    | 18.0                 | 22.0  | 24.0                 | 28.0  | 21.0                | 24.0  | 19.0              | 21.0  | 82.0                  | 76.0   | -             | -     | 1.0                  | 3.0   | 20.5                  | 26.0  |
| 9                    | 19.0                 | 25.0  | 20.0                 | 27.0  | 23.0                | 22.0  | 20.0              | 19.0  | 75.0                  | 74.0   | -             | -     | 0.5                  | 4.0   | 21.0                  | 27.0  |
| 10                   | 20.0                 | 23.0  | 28.0                 | 27.0  | 23.0                | 24.0  | 20.0              | 20.0  | 82.0                  | 83.0   | -             | -     | 1.0                  | 3.0   | 21.0                  | 25.0  |
| 11                   | 19.0                 | 24.0  | 28.0                 | 29.0  | 22.0                | 24.0  | 21.0              | 20.0  | 91.0                  | 83.0   | -             | -     | 2.0                  | 4.0   | 22.0                  | 25.0  |
| 12                   | 17.0                 | 23.0  | 28.0                 | 31.0  | 21.0                | 23.0  | 20.0              | 20.0  | 91.0                  | 79.0   | -             | -     | 0.5                  | 4.0   | 21.0                  | 28.0  |
| 13                   | 18.0                 | 20.0  | 25.0                 | 31.0  | 22.0                | 25.0  | 21.0              | 22.0  | 91.0                  | 76.0   | -             | -     | 1.0                  | 3.0   | 22.0                  | 28.0  |
| 14                   | 18.0                 | 25.0  | 26.0                 | 33.0  | 22.0                | 25.0  | 20.0              | 22.0  | 82.0                  | 76.0   | -             | -     | 1.0                  | 4.0   | 21.0                  | 30.0  |
| 15                   | 18.0                 | 26.0  | 30.0                 | 32.0  | 22.0                | 25.0  | 20.0              | 22.0  | 91.0                  | 76.0   | -             | -     | 1.0                  | 3.0   | 21.0                  | 25.0  |
| 16                   | 18.0                 | 24.0  | 24.0                 | 31.0  | 22.0                | 23.0  | 20.0              | 21.0  | 91.0                  | 83.0   | -             | -     | 1.0                  | 3.0   | 20.0                  | 27.0  |
| 17                   | 22.0                 | 22.0  | 26.0                 | 30.0  | 20.0                | 23.0  | 18.0              | 20.0  | 81.0                  | 75.0   | -             | -     | 1.0                  | 4.0   | 20.0                  | 27.0  |
| 18                   | 20.0                 | 21.0  | 25.0                 | 28.0  | 19.0                | 22.0  | 16.0              | 19.0  | 72.0                  | 74.0   | -             | -     | 1.0                  | 3.0   | 21.0                  | 22.0  |
| 19                   | 19.0                 | 19.0  | 28.0                 | 27.0  | 20.0                | 21.0  | 17.0              | 18.0  | 73.0                  | 73.0   | -             | -     | 1.0                  | 3.0   | 17.0                  | 25.0  |
| 20                   | 19.0                 | 15.0  | 23.0                 | 26.0  | 19.0                | 22.0  | 16.0              | 19.0  | 72.0                  | 74.0   | -             | -     | 0.5                  | 2.0   | 20.0                  | 22.0  |
| 21                   | 19.0                 | 19.0  | 24.0                 | 28.0  | 19.0                | 22.0  | 18.0              | 20.0  | 90.0                  | 82.0   | -             | -     | 0.5                  | 2.0   | 19.0                  | 25.0  |
| 22                   | 16.0                 | 20.0  | 29.0                 | 28.0  | 20.0                | 20.0  | 18.5              | 18.0  | 91.0                  | 81.0   | -             | -     | 1.7                  | 2.0   | 19.0                  | 25.0  |
| 23                   | 24.0                 | 17.0  | 28.0                 | 29.0  | 21.0                | 17.0  | 19.0              | 16.0  | 82.0                  | 90.0   | -             | -     | 2.0                  | 1.0   | 22.0                  | 28.0  |
| 24                   | 16.0                 | 19.0  | 29.0                 | 28.0  | 17.0                | 23.5  | 16.0              | 20.0  | 90.0                  | 75.0   | -             | -     | 1.0                  | 2.0   | 18.0                  | 27.0  |
| 25                   | 14.0                 | 19.0  | 29.0                 | 30.0  | 17.0                | 23.0  | 16.0              | 19.5  | 90.0                  | 75.0   | -             | -     | 1.0                  | 1.0   | 18.0                  | 27.0  |
| 26                   | 15.0                 | 18.0  | 29.0                 | 29.0  | 20.0                | 25.0  | 17.0              | 22.0  | 73.0                  | 76.0   | -             | -     | 1.0                  | 2.0   | 19.0                  | 26.5  |
| 27                   | 16.0                 | 19.0  | 28.0                 | 30.0  | 21.0                | 23.0  | 20.0              | 22.0  | 91.0                  | 91.0   | -             | -     | 1.2                  | 2.2   | 18.5                  | 27.0  |
| 28                   | 14.0                 | 24.0  | 27.0                 | 29.0  | 24.0                | 21.0  | 20.0              | 18.0  | 68.0                  | 65.0   | -             | -     | 0.8                  | 2.0   | 19.0                  | 27.0  |
| 29                   | 13.0                 | 23.0  | 24.0                 | 30.0  | 16.0                | 25.0  | 15.0              | 24.0  | 89.0                  | 92.0   | -             | -     | 1.0                  | 2.0   | 16.0                  | 26.5  |
| 30                   | 15.0                 | 19.0  | 28.0                 | 29.0  | 18.0                | 22.0  | 16.0              | 18.0  | 80.0                  | 66.0   | -             | -     | 1.8                  | 2.0   | 17.0                  | 27.0  |
| 31                   | 14.0                 |       | 25.0                 |       | 17.0                |       | 15.0              |       | 80.0                  |        | -             |       | 1.0                  |       | 16.0                  |       |
| Total                | 540.0                | 651.0 | 805.0                | 892.0 | 621.0               | 701.5 | 561.5             | 615.5 | 2584.0                | 2397.0 | -             | -     | 32.5                 | 84.2  | 604.0                 | 812.5 |
| Average              | 17.4                 | 21.0  | 26.0                 | 28.8  | 20.0                | 22.6  | 18.1              | 19.9  | 83.4                  | 77.3   |               |       |                      |       | 19.5                  | 26.2  |
|                      | 19.2                 |       | 27.4                 |       | 21.3                |       | 19.0              |       | 80.3                  |        | 0.0           |       | 116.7                |       | 22.8                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| January 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM          |                      | 18.0  |                      | 29.0  |                     | 21.0  |                   | 18.0  |                       | 73.0   |               | -     |                      | 1.6   |                       | 28.0  |
| 1            | 15.0                 | 19.0  | 25.0                 | 29.0  | 17.5                | 22.0  | 16.5              | 19.0  | 90.0                  | 74.0   | -             | -     | 0.8                  | 1.0   | 16.0                  | 22.0  |
| 2            | 14.0                 | 18.0  | 24.0                 | 28.0  | 19.0                | 21.0  | 15.0              | 19.0  | 63.0                  | 82.0   | -             | -     | 1.2                  | 2.5   | 17.0                  | 24.0  |
| 3            | 16.0                 | 22.0  | 25.0                 | 26.0  | 20.0                | 21.0  | 17.0              | 18.0  | 73.0                  | 73.0   | -             | -     | 1.0                  | 2.0   | 16.5                  | 25.0  |
| 4            | 14.0                 | 20.0  | 24.0                 | 27.0  | 15.0                | 25.0  | 13.0              | 22.0  | 78.0                  | 76.0   | -             | -     | 1.0                  | 1.0   | 17.0                  | 25.0  |
| 5            | 15.0                 | 20.0  | 25.0                 | 28.0  | 16.0                | 24.0  | 14.0              | 21.0  | 79.0                  | 75.0   | -             | -     | 2.0                  | 0.6   | 18.0                  | 23.0  |
| 6            | 16.0                 | 18.0  | 26.0                 | 27.0  | 18.0                | 20.0  | 16.0              | 18.0  | 81.0                  | 81.0   | -             | -     | 2.2                  | 1.2   | 17.0                  | 22.0  |
| 7            | 14.0                 | 22.0  | 24.0                 | 25.0  | 20.0                | 19.0  | 18.0              | 16.0  | 81.0                  | 76.0   | -             | -     | 1.4                  | 1.0   | 16.0                  | 24.0  |
| 8            | 15.0                 | 20.0  | 25.0                 | 26.0  | 19.0                | 25.0  | 15.0              | 23.0  | 63.0                  | 84.0   | -             | -     | 1.0                  | 0.8   | 14.0                  | 21.0  |
| 9            | 13.0                 | 20.0  | 23.0                 | 25.0  | 20.0                | 24.0  | 17.0              | 22.0  | 73.0                  | 83.0   | -             | -     | 1.6                  | 3.2   | 13.0                  | 25.0  |
| 10           | 14.0                 | 18.0  | 25.0                 | 24.0  | 25.0                | 22.0  | 21.0              | 20.0  | 68.0                  | 82.0   | -             | -     | 1.4                  | 1.0   | 13.0                  | 24.0  |
| 11           | 13.0                 | 18.0  | 23.0                 | 23.0  | 26.0                | 24.0  | 22.0              | 22.0  | 69.0                  | 83.0   | -             | -     | 1.0                  | 1.4   | 16.0                  | 23.0  |
| 12           | 13.0                 | 17.0  | 24.0                 | 22.0  | 24.0                | 22.0  | 21.0              | 19.0  | 75.0                  | 74.0   | -             | -     | 0.8                  | 2.0   | 14.0                  | 25.0  |
| 13           | 15.0                 | 19.0  | 22.0                 | 29.0  | 20.0                | 24.0  | 18.0              | 19.0  | 81.0                  | 74.0   | -             | -     | 1.0                  | 2.0   | 17.0                  | 27.0  |
| 14           | 15.0                 | 19.0  | 29.0                 | 30.0  | 17.0                | 21.0  | 15.0              | 17.0  | 80.0                  | 65.0   | -             | -     | 1.0                  | 3.0   | 17.0                  | 27.0  |
| 15           | 16.0                 | 22.0  | 25.0                 | 30.0  | 19.0                | 22.0  | 16.0              | 18.0  | 72.0                  | 82.0   | -             | -     | 1.0                  | 3.0   | 18.0                  | 26.0  |
| 16           | 14.0                 | 18.0  | 26.0                 | 27.0  | 16.0                | 23.0  | 14.0              | 19.0  | 79.0                  | 68.0   | -             | -     | 1.0                  | 2.0   | 16.0                  | 25.0  |
| 17           | 15.0                 | 18.0  | 22.0                 | 27.0  | 20.0                | 24.0  | 18.0              | 19.0  | 81.0                  | 60.0   | -             | -     | 1.0                  | 3.0   | 17.0                  | 25.0  |
| 18           | 13.0                 | 23.0  | 23.0                 | 29.0  | 19.0                | 23.0  | 15.0              | 18.0  | 63.0                  | 59.0   | -             | -     | 0.5                  | 2.0   | 18.0                  | 27.0  |
| 19           | 13.0                 | 21.0  | 25.0                 | 27.0  | 19.0                | 22.0  | 14.0              | 18.0  | 54.0                  | 82.0   | -             | -     | 1.0                  | 4.0   | 17.0                  | 27.0  |
| 20           | 13.0                 | 22.0  | 25.0                 | 28.0  | 19.0                | 20.0  | 16.0              | 18.0  | 72.0                  | 81.0   | -             | -     | 0.5                  | 3.0   | 17.0                  | 26.0  |
| 21           | 14.0                 | 16.0  | 24.0                 | 29.0  | 19.0                | 22.0  | 15.0              | 20.0  | 63.0                  | 83.0   | -             | -     | 1.0                  | 3.0   | 16.0                  | 27.0  |
| 22           | 15.0                 | 17.0  | 24.0                 | 22.0  | 19.0                | 22.0  | 16.0              | 19.0  | 72.0                  | 74.0   | -             | -     | 1.0                  | 2.0   | 19.0                  | 26.0  |
| 23           | 14.0                 | 20.0  | 25.0                 | 25.0  | 19.0                | 23.0  | 16.0              | 20.0  | 72.0                  | 75.0   | -             | -     | 1.0                  | 4.0   | 19.0                  | 27.0  |
| 24           | 15.0                 | 22.0  | 25.0                 | 30.0  | 20.0                | 25.0  | 18.0              | 22.0  | 81.0                  | 76.0   | -             | -     | 1.0                  | 2.0   | 18.0                  | 26.0  |
| 25           | 16.0                 | 22.0  | 26.0                 | 29.0  | 20.0                | 24.0  | 18.0              | 19.0  | 81.0                  | 74.0   | -             | -     | 1.0                  | 3.0   | 20.0                  | 27.0  |
| 26           | 15.0                 | 20.0  | 27.0                 | 25.0  | 18.0                | 23.0  | 15.0              | 20.0  | 71.0                  | 75.0   | -             | -     | 1.0                  | 3.0   | 17.0                  | 28.0  |
| 27           | 22.0                 | 21.0  | 28.0                 | 28.0  | 18.0                | 25.0  | 15.0              | 19.0  | 81.0                  | 54.0   | -             | -     | 1.0                  | 3.0   | 19.0                  | 27.0  |
| 28           | 15.0                 | 15.0  | 23.0                 | 29.0  | 17.0                | 22.0  | 15.0              | 18.0  | 80.0                  | 66.0   | -             | -     | 1.0                  | 3.0   | 15.0                  | 27.0  |
| 29           | 14.0                 | 21.0  | 26.0                 | 28.0  | 19.0                | 24.0  | 15.0              | 20.0  | 63.0                  | 69.0   | -             | -     | 1.0                  | 3.0   | 18.0                  | 26.0  |
| 30           | 14.0                 | 22.0  | 26.0                 | 31.0  | 19.0                | 27.0  | 17.0              | 20.0  | 81.0                  | 50.0   | -             | -     | 1.0                  | 3.0   | 18.0                  | 27.0  |
| 31           | 14.0                 |       | 29.0                 |       | 20.0                |       | 17.0              |       | 73.0                  |        | -             |       | 1.0                  |       | 17.0                  |       |
| Total        | 454.0                | 608.0 | 773.0                | 842.0 | 596.5               | 706.0 | 508.5             | 600.0 | 2293.0                | 2283.0 | -             | -     | 33.4                 | 70.3  | 520.5                 | 789.0 |
| Average      | 14.6                 | 19.6  | 24.9                 | 27.2  | 19.2                | 22.8  | 16.4              | 19.4  | 74.0                  | 73.6   |               |       |                      |       | 16.8                  | 25.5  |
|              | 17.1                 |       | 26.0                 |       | 21.0                |       | 17.9              |       | 73.8                  |        | 0.0           |       | 103.7                |       | 21.1                  |       |

## Twice Daily Climatic Data

Station Code : 001B

Local River/Basin : Mahanadi

Station Name : BURLA

Sub-Division : Burla

- 0.0 .. N.A.

| February 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM         |                      | 22.0  |                      | 32.0  |                     | 29.0  |                   | 21.0  |                       | 46.0   |               | -     |                      | 3.0   |                       | 29.0  |
| 1             | 15.0                 | 16.0  | 30.0                 | 31.0  | 22.0                | 25.0  | 19.0              | 21.0  | 74.0                  | 68.0   | -             | -     | 2.0                  | 3.0   | 20.0                  | 28.0  |
| 2             | 15.0                 | 24.0  | 27.0                 | 32.0  | 21.0                | 28.0  | 18.0              | 22.0  | 73.0                  | 57.0   | -             | -     | 1.0                  | 4.0   | 19.0                  | 30.0  |
| 3             | 16.0                 | 26.0  | 30.0                 | 32.0  | 22.0                | 27.0  | 19.0              | 21.0  | 74.0                  | 56.0   | -             | -     | 1.0                  | 4.0   | 20.0                  | 30.0  |
| 4             | 22.0                 | 20.0  | 30.0                 | 35.0  | 18.0                | 26.0  | 17.0              | 22.0  | 90.0                  | 69.0   | -             | -     | 1.0                  | 3.0   | 19.0                  | 30.0  |
| 5             | 17.0                 | 26.0  | 27.0                 | 31.0  | 23.0                | 27.0  | 19.0              | 21.0  | 67.0                  | 56.0   | -             | -     | 1.0                  | 3.0   | 21.0                  | 30.0  |
| 6             | 19.0                 | 26.0  | 31.0                 | 31.0  | 23.0                | 29.0  | 20.0              | 25.0  | 75.0                  | 78.0   | -             | -     | 1.0                  | 3.0   | 22.0                  | 30.0  |
| 7             | 20.0                 | 26.0  | 31.0                 | 30.0  | 23.0                | 25.0  | 21.0              | 22.0  | 83.0                  | 80.0   | -             | -     | 2.0                  | 3.0   | 23.0                  | 29.0  |
| 8             | 20.0                 | 27.0  | 28.0                 | 33.0  | 25.0                | 28.0  | 20.0              | 22.0  | 61.0                  | 57.0   | -             | -     | 1.0                  | 3.0   | 24.0                  | 30.0  |
| 9             | 19.0                 | 25.0  | 29.0                 | 32.0  | 24.0                | 28.0  | 21.0              | 23.0  | 75.0                  | 64.0   | -             | -     | 1.0                  | 4.0   | 23.0                  | 26.0  |
| 10            | 21.0                 | 23.0  | 31.0                 | 30.0  | 21.0                | 25.0  | 19.0              | 20.0  | 82.0                  | 60.0   | -             | -     | 1.0                  | 2.0   | 22.0                  | 28.0  |
| 11            | 20.0                 | 26.0  | 28.0                 | 32.0  | 24.0                | 24.0  | 20.0              | 21.0  | 68.0                  | 75.0   | -             | -     | 1.0                  | 2.0   | 24.0                  | 28.0  |
| 12            | 20.0                 | 22.0  | 26.0                 | 30.0  | 21.0                | 26.0  | 19.0              | 22.0  | 86.0                  | 69.0   | -             | -     | 1.0                  | 4.0   | 20.0                  | 30.0  |
| 13            | 20.0                 | 23.0  | 27.0                 | 31.0  | 21.0                | 27.0  | 19.0              | 22.0  | 86.0                  | 63.0   | -             | -     | 1.0                  | 3.0   | 22.0                  | 30.0  |
| 14            | 19.0                 | 22.0  | 30.0                 | 30.0  | 21.0                | 27.0  | 19.0              | 22.0  | 86.0                  | 63.0   | -             | -     | 1.0                  | 3.0   | 20.0                  | 29.0  |
| 15            | 18.0                 | 24.0  | 30.0                 | 30.0  | 21.0                | 22.0  | 17.0              | 18.0  | 65.0                  | 66.0   | -             | -     | 1.0                  | 3.0   | 22.0                  | 29.0  |
| 16            | 17.0                 | 24.0  | 29.0                 | 31.0  | 21.0                | 28.0  | 18.0              | 22.0  | 73.0                  | 57.0   | -             | -     | 1.0                  | 3.0   | 20.0                  | 28.0  |
| 17            | 17.0                 | 21.0  | 30.0                 | 32.0  | 22.0                | 29.0  | 19.0              | 22.0  | 74.0                  | 52.0   | -             | -     | 1.0                  | 4.0   | 20.0                  | 30.0  |
| 18            | 19.0                 | 18.0  | 29.0                 | 29.0  | 26.0                | 27.0  | 21.0              | 21.0  | 62.0                  | 57.0   | -             | -     | 1.0                  | 3.0   | 24.0                  | 29.0  |
| 19            | 17.0                 | 26.0  | 29.0                 | 34.0  | 24.0                | 30.0  | 20.0              | 24.0  | 68.0                  | 59.0   | -             | -     | 1.5                  | 4.0   | 21.0                  | 31.0  |
| 20            | 22.0                 | 26.0  | 32.0                 | 33.0  | 23.0                | 29.0  | 20.0              | 24.0  | 75.0                  | 62.0   | -             | -     | 1.0                  | 4.0   | 21.0                  | 30.0  |
| 21            | 23.0                 | 26.0  | 27.0                 | 33.0  | 23.0                | 28.0  | 20.0              | 22.0  | 75.0                  | 57.0   | -             | -     | 1.0                  | 4.0   | 21.0                  | 31.0  |
| 22            | 22.0                 | 25.0  | 28.0                 | 32.0  | 26.0                | 29.0  | 21.0              | 24.0  | 62.0                  | 62.0   | -             | -     | 1.0                  | 3.0   | 22.0                  | 30.0  |
| 23            | 23.0                 | 28.0  | 28.0                 | 32.0  | 26.0                | 30.0  | 21.0              | 24.0  | 62.0                  | 59.0   | -             | -     | 2.0                  | 3.0   | 22.0                  | 29.0  |
| 24            | 19.0                 | 23.0  | 27.0                 | 32.0  | 26.0                | 30.0  | 21.0              | 24.0  | 62.0                  | 59.0   | -             | -     | 2.0                  | 4.0   | 22.0                  | 30.0  |
| 25            | 23.0                 | 23.0  | 28.0                 | 31.0  | 27.0                | 29.0  | 22.0              | 24.0  | 63.0                  | 65.0   | -             | -     | 1.0                  | 3.0   | 25.0                  | 29.0  |
| 26            | 25.0                 | 29.0  | 30.0                 | 32.0  | 25.0                | 30.0  | 21.0              | 24.0  | 68.0                  | 59.0   | -             | -     | 2.0                  | 4.0   | 24.0                  | 30.0  |
| 27            | 23.0                 | 30.0  | 29.0                 | 33.0  | 26.0                | 30.0  | 21.0              | 24.0  | 62.0                  | 59.0   | -             | -     | 1.0                  | 2.0   | 25.0                  | 30.0  |
| 28            | 22.0                 |       | 28.0                 |       | 25.0                |       | 21.0              |       | 68.0                  |        | -             |       | 2.0                  |       | 23.0                  |       |
| Total         | 553.0                | 677.0 | 809.0                | 886.0 | 650.0               | 772.0 | 553.0             | 624.0 | 2019.0                | 1734.0 | -             | -     | 34.5                 | 91.0  | 611.0                 | 823.0 |
| Average       | 19.8                 | 24.2  | 28.9                 | 31.6  | 23.2                | 27.6  | 19.8              | 22.3  | 72.1                  | 61.9   |               |       |                      |       | 21.8                  | 29.4  |
|               | 22.0                 |       | 30.3                 |       | 25.4                |       | 21.0              |       | 67.0                  |        | 0.0           |       | 125.5                |       | 25.6                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| March 2018 |                      |       |                      |        |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM        |                      | 32.0  |                      | 34.0   |                     | 32.0  |                   | 25.0  |                       | 55.0   |               | -     |                      | 5.0   |                       | 31.0  |
| 1          | 24.0                 | 32.0  | 31.0                 | 34.0   | 27.0                | 32.0  | 23.0              | 26.0  | 70.0                  | 61.0   | -             | -     | 2.0                  | 5.0   | 27.0                  | 31.0  |
| 2          | 24.0                 | 30.0  | 33.0                 | 33.0   | 26.0                | 29.0  | 22.0              | 26.0  | 69.0                  | 78.0   | -             | -     | 2.0                  | 4.0   | 23.0                  | 28.0  |
| 3          | 25.0                 | 32.0  | 28.0                 | 34.0   | 26.0                | 34.0  | 23.0              | 27.0  | 76.0                  | 56.0   | -             | -     | 2.0                  | 4.0   | 24.0                  | 32.0  |
| 4          | 25.0                 | 30.0  | 28.0                 | 39.0   | 28.0                | 30.0  | 24.0              | 25.0  | 70.0                  | 66.0   | -             | -     | 1.0                  | 4.0   | 27.0                  | 32.0  |
| 5          | 26.0                 | 28.0  | 29.0                 | 34.0   | 27.0                | 29.0  | 23.0              | 23.0  | 70.0                  | 58.0   | -             | -     | 2.0                  | 2.0   | 25.0                  | 29.0  |
| 6          | 24.0                 | 30.0  | 27.0                 | 35.0   | 25.0                | 35.0  | 21.0              | 32.0  | 68.0                  | 79.0   | -             | -     | 2.0                  | 3.0   | 22.0                  | 32.0  |
| 7          | 25.0                 | 30.0  | 30.0                 | 34.0   | 26.0                | 32.0  | 22.0              | 29.0  | 69.0                  | 78.0   | -             | -     | 1.0                  | 3.0   | 24.0                  | 31.0  |
| 8          | 26.0                 | 29.0  | 32.0                 | 33.0   | 24.0                | 34.0  | 20.0              | 26.0  | 68.0                  | 51.0   | -             | -     | 2.0                  | 3.0   | 22.0                  | 31.0  |
| 9          | 25.0                 | 30.0  | 32.0                 | 33.0   | 25.0                | 32.0  | 21.0              | 25.0  | 68.0                  | 55.0   | -             | -     | 2.0                  | 3.0   | 22.0                  | 31.0  |
| 10         | 23.0                 | 29.0  | 31.0                 | 33.0   | 29.0                | 32.0  | 22.0              | 25.0  | 52.0                  | 55.0   | -             | -     | 1.0                  | 3.0   | 25.0                  | 30.0  |
| 11         | 26.0                 | 28.0  | 34.0                 | 35.0   | 24.0                | 29.0  | 20.0              | 26.0  | 68.0                  | 78.0   | -             | -     | 1.0                  | 4.0   | 24.0                  | 30.0  |
| 12         | 26.0                 | 32.0  | 34.0                 | 34.0   | 28.0                | 32.0  | 24.0              | 26.0  | 70.0                  | 61.0   | -             | -     | 2.0                  | 4.0   | 24.0                  | 30.0  |
| 13         | 25.0                 | 26.0  | 31.0                 | 34.0   | 25.0                | 34.0  | 21.0              | 27.0  | 68.0                  | 56.0   | -             | -     | 1.0                  | 4.0   | 22.0                  | 31.0  |
| 14         | 25.0                 | 28.0  | 32.0                 | 38.0   | 28.0                | 34.0  | 24.0              | 26.0  | 70.0                  | 56.0   | -             | -     | 2.0                  | 4.0   | 24.0                  | 32.0  |
| 15         | 24.0                 | 27.0  | 27.0                 | 34.5   | 28.0                | 32.0  | 24.0              | 23.0  | 67.0                  | 44.0   | -             | -     | 2.0                  | 4.0   | 24.0                  | 28.0  |
| 16         | 24.0                 | 22.0  | 30.0                 | 26.0   | 23.0                | 22.0  | 21.0              | 20.0  | 83.0                  | 82.0   | -             | 0.4   | 2.0                  | 2.4   | 21.0                  | 21.0  |
| 17         | 19.0                 | 25.0  | 25.0                 | 33.0   | 25.0                | 32.0  | 21.0              | 23.0  | 68.0                  | 44.0   | -             | -     | 1.0                  | 2.0   | 22.0                  | 28.0  |
| 18         | 20.0                 | 25.0  | 25.0                 | 37.0   | 24.0                | 29.0  | 20.0              | 23.0  | 68.0                  | 58.0   | -             | -     | 2.0                  | 3.0   | 21.0                  | 28.0  |
| 19         | 22.0                 | 28.0  | 30.0                 | 36.0   | 26.0                | 32.0  | 18.0              | 29.0  | 36.0                  | 78.0   | -             | -     | 2.0                  | 4.0   | 22.0                  | 30.0  |
| 20         | 21.0                 | 30.0  | 34.0                 | 37.0   | 28.0                | 32.0  | 24.0              | 25.0  | 70.0                  | 55.0   | -             | -     | 2.0                  | 4.0   | 23.0                  | 32.0  |
| 21         | 22.0                 | 28.0  | 35.0                 | 35.0   | 27.0                | 32.0  | 22.0              | 26.0  | 63.0                  | 51.0   | -             | -     | 2.0                  | 4.0   | 22.0                  | 30.0  |
| 22         | 24.0                 | 30.0  | 34.0                 | 37.0   | 28.0                | 34.0  | 24.0              | 26.0  | 70.0                  | 51.0   | -             | -     | 2.0                  | 4.0   | 24.0                  | 32.0  |
| 23         | 22.0                 | 27.0  | 35.0                 | 38.0   | 26.0                | 36.0  | 22.0              | 28.0  | 69.0                  | 53.0   | -             | -     | 2.0                  | 5.0   | 24.0                  | 34.0  |
| 24         | 22.0                 | 30.0  | 35.0                 | 38.0   | 29.0                | 36.0  | 22.0              | 26.0  | 52.0                  | 51.0   | -             | -     | 3.0                  | 4.0   | 22.0                  | 30.0  |
| 25         | 20.0                 | 30.0  | 30.0                 | 38.0   | 30.0                | 32.0  | 21.0              | 26.0  | 42.0                  | 61.0   | -             | -     | 3.0                  | 4.0   | 24.0                  | 30.0  |
| 26         | 24.0                 | 28.0  | 34.0                 | 37.0   | 30.0                | 34.0  | 23.0              | 26.0  | 53.0                  | 51.0   | -             | -     | 2.0                  | 5.0   | 22.0                  | 27.0  |
| 27         | 21.0                 | 30.0  | 34.0                 | 37.0   | 30.0                | 30.0  | 23.0              | 25.0  | 53.0                  | 66.0   | -             | -     | 2.0                  | 4.0   | 22.0                  | 30.0  |
| 28         | 22.0                 | 30.0  | 34.0                 | 40.0   | 27.0                | 32.0  | 22.0              | 26.0  | 63.0                  | 61.0   | -             | -     | 2.0                  | 4.0   | 23.0                  | 30.0  |
| 29         | 24.0                 | 34.0  | 35.0                 | 40.0   | 32.0                | 29.0  | 26.0              | 23.0  | 51.0                  | 58.0   | -             | -     | 2.0                  | 5.0   | 22.0                  | 32.0  |
| 30         | 33.0                 | 32.0  | 34.0                 | 42.5   | 32.0                | 33.0  | 26.0              | 28.5  | 61.0                  | 70.0   | -             | -     | 8.0                  | 1.8   | 28.0                  | 36.0  |
| 31         | 32.0                 |       | 33.0                 |        | 30.0                |       | 24.0              |       | 59.0                  |        | -             |       | 8.5                  |       | 27.0                  |       |
| Total      | 745.0                | 902.0 | 976.0                | 1103.0 | 843.0               | 987.0 | 693.0             | 797.5 | 1984.0                | 1877.0 | -             | 0.4   | 70.5                 | 115.2 | 728.0                 | 939.0 |
| Average    | 24.0                 | 29.1  | 31.5                 | 35.6   | 27.2                | 31.8  | 22.4              | 25.7  | 64.0                  | 60.5   |               |       |                      |       | 23.5                  | 30.3  |
|            | 26.6                 |       | 33.5                 |        | 29.5                |       | 24.0              |       | 62.3                  |        | 0.4           |       | 185.7                |       | 26.9                  |       |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| April 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |               |       |                      |       |                       |        |
|------------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|--------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM      |                      | 28.0  |                      | 38.0   |                     | 34.0   |                   | 28.0  |                       | 62.0   |               | -     |                      | 2.0   |                       | 35.5   |
| 1          | 25.0                 | 32.0  | 38.0                 | 38.0   | 32.0                | 28.0   | 27.5              | 25.0  | 68.0                  | 67.0   | -             | -     | 2.0                  | 4.0   | 25.0                  | 29.0   |
| 2          | 25.0                 | 27.0  | 35.0                 | 34.0   | 25.0                | 32.0   | 22.0              | 26.0  | 76.0                  | 61.0   | 1.2           | -     | 3.2                  | 3.0   | 22.0                  | 25.0   |
| 3          | 24.0                 | 30.0  | 32.0                 | 36.0   | 28.0                | 34.0   | 25.0              | 27.0  | 77.0                  | 56.0   | -             | -     | 1.5                  | 3.0   | 25.0                  | 32.0   |
| 4          | 24.0                 | 31.0  | 35.0                 | 37.0   | 28.0                | 36.0   | 25.0              | 29.0  | 77.0                  | 58.0   | -             | -     | 2.0                  | 3.0   | 25.0                  | 35.0   |
| 5          | 23.0                 | 31.0  | 34.0                 | 37.0   | 29.0                | 34.0   | 25.0              | 29.0  | 71.0                  | 68.0   | -             | -     | 2.0                  | 3.0   | 27.0                  | 36.0   |
| 6          | 25.0                 | 31.0  | 36.0                 | 39.0   | 30.0                | 35.0   | 28.0              | 30.0  | 85.0                  | 63.0   | -             | -     | 2.0                  | 4.0   | 27.0                  | 37.0   |
| 7          | 25.0                 | 30.0  | 34.0                 | 36.0   | 29.0                | 34.0   | 25.0              | 27.0  | 71.0                  | 56.0   | -             | -     | 2.0                  | 4.0   | 27.0                  | 35.0   |
| 8          | 26.0                 | 30.0  | 36.0                 | 38.0   | 28.0                | 32.0   | 23.0              | 26.0  | 64.0                  | 61.0   | -             | -     | 2.0                  | 4.0   | 26.0                  | 34.0   |
| 9          | 26.0                 | 32.0  | 35.0                 | 38.0   | 29.0                | 32.0   | 27.0              | 28.0  | 85.0                  | 73.0   | -             | -     | 2.0                  | 4.0   | 28.0                  | 36.0   |
| 10         | 24.0                 | 30.0  | 33.0                 | 36.0   | 28.0                | 34.0   | 25.0              | 29.0  | 77.0                  | 68.0   | 1.4           | -     | 2.4                  | 4.0   | 24.0                  | 35.0   |
| 11         | 26.0                 | 31.0  | 35.0                 | 36.0   | 29.0                | 32.0   | 25.0              | 28.0  | 71.0                  | 73.0   | -             | -     | 3.0                  | 4.0   | 26.0                  | 36.0   |
| 12         | 26.0                 | 32.0  | 32.0                 | 37.0   | 30.0                | 34.0   | 26.0              | 28.0  | 59.0                  | 73.0   | -             | -     | 3.0                  | 4.0   | 26.0                  | 36.0   |
| 13         | 25.0                 | 34.0  | 35.0                 | 37.0   | 30.0                | 34.0   | 26.0              | 28.0  | 72.0                  | 73.0   | -             | -     | 2.0                  | 4.0   | 25.0                  | 36.0   |
| 14         | 26.0                 | 32.0  | 35.0                 | 38.0   | 29.0                | 34.0   | 25.0              | 29.0  | 71.0                  | 68.0   | -             | -     | 3.0                  | 4.0   | 27.0                  | 34.0   |
| 15         | 26.0                 | 31.0  | 37.0                 | 37.0   | 30.0                | 35.0   | 26.0              | 30.0  | 59.0                  | 63.0   | 6.2           | -     | 4.2                  | 4.0   | 27.0                  | 34.0   |
| 16         | 25.0                 | 28.0  | 36.0                 | 39.0   | 32.0                | 36.0   | 26.0              | 30.0  | 61.0                  | 63.0   | -             | -     | 3.0                  | 5.0   | 28.0                  | 38.0   |
| 17         | 28.0                 | 35.0  | 37.0                 | 39.0   | 34.0                | 32.0   | 29.0              | 28.0  | 68.0                  | 73.0   | -             | -     | 3.0                  | 5.0   | 29.0                  | 37.0   |
| 18         | 26.0                 | 34.0  | 33.0                 | 40.0   | 30.0                | 36.0   | 28.0              | 31.0  | 85.0                  | 69.0   | -             | -     | 2.0                  | 4.0   | 29.0                  | 39.0   |
| 19         | 28.0                 | 34.0  | 37.0                 | 40.0   | 32.0                | 38.0   | 28.0              | 31.0  | 73.0                  | 59.0   | -             | -     | 3.0                  | 5.0   | 29.0                  | 39.0   |
| 20         | 28.0                 | 35.5  | 38.0                 | 41.0   | 34.0                | 36.0   | 29.0              | 31.0  | 68.0                  | 69.0   | -             | 0.2   | 4.0                  | 5.2   | 30.0                  | 39.0   |
| 21         | 28.0                 | 35.0  | 36.0                 | 41.0   | 32.0                | 38.0   | 28.0              | 31.0  | 73.0                  | 59.0   | -             | -     | 4.0                  | 5.0   | 27.0                  | 39.0   |
| 22         | 28.0                 | 33.0  | 38.0                 | 41.0   | 32.0                | 38.0   | 26.0              | 31.0  | 61.0                  | 59.0   | -             | -     | 4.0                  | 5.0   | 28.0                  | 39.0   |
| 23         | 29.0                 | 33.0  | 38.0                 | 41.0   | 34.0                | 36.0   | 29.0              | 30.0  | 68.0                  | 63.0   | -             | -     | 4.0                  | 5.0   | 29.0                  | 39.0   |
| 24         | 28.0                 | 34.0  | 39.0                 | 41.0   | 32.0                | 36.0   | 28.0              | 30.0  | 73.0                  | 63.0   | -             | -     | 4.0                  | 5.0   | 30.0                  | 39.0   |
| 25         | 26.0                 | 35.0  | 37.0                 | 40.0   | 32.0                | 38.0   | 27.0              | 30.0  | 67.0                  | 54.0   | -             | -     | 4.0                  | 5.0   | 28.0                  | 39.0   |
| 26         | 26.0                 | 36.0  | 38.0                 | 42.0   | 32.0                | 38.0   | 29.0              | 30.0  | 79.0                  | 54.0   | -             | -     | 3.5                  | 6.0   | 29.0                  | 38.0   |
| 27         | 27.0                 | 34.0  | 38.0                 | 40.0   | 30.0                | 38.0   | 28.0              | 31.0  | 85.0                  | 59.0   | -             | -     | 4.0                  | 5.0   | 29.0                  | 37.0   |
| 28         | 27.0                 | 34.0  | 37.0                 | 40.0   | 32.0                | 36.0   | 29.0              | 30.0  | 79.0                  | 63.0   | -             | -     | 4.5                  | 4.0   | 30.0                  | 37.0   |
| 29         | 25.0                 | 33.0  | 34.0                 | 38.0   | 28.0                | 32.0   | 24.0              | 28.0  | 70.0                  | 73.0   | 2.2           | -     | 2.2                  | 3.0   | 28.0                  | 35.0   |
| 30         | 25.0                 |       | 35.0                 |        | 30.0                |        | 25.0              |       | 65.0                  |        | 8.0           |       | 3.0                  |       | 24.0                  |        |
| Total      | 780.0                | 965.5 | 1073.0               | 1155.0 | 910.0               | 1042.0 | 793.5             | 869.0 | 2158.0                | 1923.0 | 19.0          | 0.2   | 88.5                 | 125.2 | 814.0                 | 1079.5 |
| Average    | 26.0                 | 32.2  | 35.8                 | 38.5   | 30.3                | 34.7   | 26.5              | 29.0  | 71.9                  | 64.1   |               |       |                      |       | 27.1                  | 36.0   |
|            | 29.1                 |       | 37.1                 |        | 32.5                |        | 27.7              |       | 68.0                  |        | 19.2          |       | 213.7                |       | 31.6                  |        |

## Twice Daily Climatic Data

Station Code : 001B  
Local River/Basin : Mahanadi

Station Name : BURLA  
Sub-Division : Burla  
- 0.0 .. N.A.

| May 2018 |                      |        |                      |        |                     |        |                   |       |                       |        |               |       |                      |       |                       |        |
|----------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|--------|
|          | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day      | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM      |                      | 30.0   |                      | 36.0   |                     | 30.0   |                   | 26.0  |                       | 59.0   |               | -     |                      | 5.0   |                       | 35.0   |
| 1        | 23.0                 | 29.0   | 29.0                 | 34.0   | 27.0                | 32.0   | 24.0              | 28.0  | 77.0                  | 73.0   | 6.0           | -     | 1.0                  | 3.0   | 27.0                  | 32.0   |
| 2        | 24.5                 | 32.0   | 32.0                 | 36.0   | 30.0                | 34.0   | 27.0              | 30.0  | 78.0                  | 74.0   | -             | -     | 1.5                  | 4.0   | 28.0                  | 35.0   |
| 3        | 25.0                 | 30.0   | 35.0                 | 35.5   | 28.0                | 32.0   | 25.0              | 29.0  | 77.0                  | 79.0   | -             | -     | 3.0                  | 4.0   | 28.0                  | 34.0   |
| 4        | 27.0                 | 33.0   | 34.0                 | 37.0   | 30.0                | 34.0   | 28.0              | 30.0  | 85.0                  | 74.0   | -             | -     | 3.0                  | 4.0   | 29.0                  | 35.0   |
| 5        | 30.0                 | 35.0   | 35.0                 | 40.5   | 32.0                | 38.0   | 29.0              | 32.0  | 79.0                  | 64.0   | -             | -     | 4.0                  | 5.0   | 30.0                  | 37.0   |
| 6        | 31.0                 | 38.0   | 37.0                 | 41.0   | 34.0                | 34.0   | 31.0              | 30.0  | 80.0                  | 74.0   | -             | -     | 4.0                  | 5.0   | 32.5                  | 38.0   |
| 7        | 31.0                 | 39.0   | 37.0                 | 41.0   | 34.0                | 34.0   | 31.0              | 30.0  | 80.0                  | 74.0   | 1.0           | -     | 5.0                  | 6.0   | 33.0                  | 38.0   |
| 8        | 31.0                 | 38.0   | 37.0                 | 40.0   | 32.0                | 36.0   | 9.0               | 32.0  | 79.0                  | 75.0   | -             | -     | 4.0                  | 5.0   | 32.0                  | 38.0   |
| 9        | 31.0                 | 37.0   | 37.0                 | 42.0   | 34.0                | 38.0   | 30.0              | 32.0  | 74.0                  | 64.0   | -             | -     | 4.0                  | 6.0   | 32.0                  | 39.0   |
| 10       | 32.0                 | 36.0   | 39.0                 | 40.0   | 34.0                | 36.0   | 29.0              | 32.0  | 69.0                  | 75.0   | -             | -     | 4.0                  | 4.0   | 32.0                  | 37.0   |
| 11       | 30.0                 | 33.0   | 37.0                 | 40.0   | 34.0                | 38.0   | 30.0              | 32.0  | 74.0                  | 75.0   | -             | -     | 3.0                  | 4.0   | 33.0                  | 38.0   |
| 12       | 30.0                 | 33.0   | 36.0                 | 40.0   | 34.0                | 38.0   | 30.0              | 32.0  | 74.0                  | 75.0   | -             | -     | 4.0                  | 5.0   | 30.0                  | 38.0   |
| 13       | 26.0                 | 31.0   | 33.0                 | 41.0   | 27.0                | 38.0   | 24.0              | 26.0  | 77.0                  | 36.0   | 10.6          | -     | 4.6                  | 5.0   | 26.0                  | 39.0   |
| 14       | 21.0                 | 22.0   | 39.0                 | 33.0   | 21.0                | 32.0   | 24.0              | 25.0  | 95.0                  | 55.0   | 10.8          | -     | 4.3                  | 2.0   | 26.0                  | 32.0   |
| 15       | 23.0                 | 30.0   | 29.0                 | 36.0   | 26.0                | 32.0   | 24.0              | 30.0  | 84.0                  | 86.0   | 4.8           | -     | 2.8                  | 3.0   | 25.0                  | 35.0   |
| 16       | 27.0                 | 34.5   | 36.0                 | 37.5   | 30.0                | 34.0   | 28.0              | 29.0  | 85.0                  | 68.0   | -             | -     | 3.0                  | 4.0   | 30.0                  | 32.0   |
| 17       | 28.0                 | 35.0   | 37.0                 | 39.5   | 32.0                | 36.0   | 30.0              | 32.0  | 86.0                  | 75.0   | -             | -     | 2.0                  | 5.0   | 30.0                  | 38.0   |
| 18       | 27.0                 | 36.0   | 35.0                 | 39.5   | 34.0                | 36.0   | 30.0              | 32.0  | 74.0                  | 75.0   | -             | -     | 2.0                  | 4.0   | 29.5                  | 38.0   |
| 19       | 24.0                 | 30.0   | 37.0                 | 37.0   | 28.0                | 34.0   | 25.0              | 31.0  | 77.0                  | 80.0   | 18.6          | -     | 2.6                  | 3.0   | 27.0                  | 37.0   |
| 20       | 26.0                 | 29.0   | 37.0                 | 39.0   | 28.0                | 30.0   | 25.0              | 27.0  | 77.0                  | 78.0   | -             | -     | 2.0                  | 4.0   | 29.0                  | 36.0   |
| 21       | 25.0                 | 30.0   | 30.0                 | 38.0   | 29.0                | 34.0   | 26.0              | 30.0  | 78.0                  | 74.0   | 12.6          | -     | 2.6                  | 4.0   | 29.0                  | 36.5   |
| 22       | 28.0                 | 25.0   | 33.0                 | 38.0   | 32.0                | 25.0   | 30.0              | 24.0  | 86.0                  | 92.0   | -             | 5.0   | 3.0                  | 3.0   | 30.0                  | 35.0   |
| 23       | 25.0                 | 32.0   | 35.0                 | 36.0   | 30.0                | 32.0   | 28.0              | 30.0  | 85.0                  | 86.0   | -             | -     | 3.0                  | 4.0   | 30.0                  | 32.0   |
| 24       | 27.0                 | 34.0   | 34.0                 | 37.0   | 32.0                | 36.0   | 30.0              | 32.0  | 86.0                  | 75.0   | -             | -     | 2.0                  | 4.0   | 32.0                  | 35.0   |
| 25       | 29.0                 | 30.0   | 37.0                 | 39.0   | 34.0                | 36.0   | 30.0              | 32.0  | 74.0                  | 75.0   | -             | -     | 4.0                  | 5.0   | 34.0                  | 38.0   |
| 26       | 30.0                 | 35.0   | 37.0                 | 40.0   | 32.0                | 36.0   | 30.0              | 32.0  | 86.0                  | 75.0   | -             | -     | 3.0                  | 5.0   | 33.0                  | 38.0   |
| 27       | 30.0                 | 36.0   | 38.0                 | 40.0   | 32.0                | 36.0   | 30.0              | 32.0  | 86.0                  | 75.0   | -             | -     | 2.0                  | 6.0   | 37.0                  | 38.0   |
| 28       | 30.0                 | 36.0   | 37.0                 | 40.0   | 34.0                | 38.0   | 30.0              | 32.0  | 74.0                  | 64.0   | -             | -     | 2.0                  | 6.0   | 35.0                  | 39.0   |
| 29       | 35.0                 | 35.0   | 38.0                 | 40.0   | 32.0                | 38.0   | 30.0              | 33.0  | 86.0                  | 71.0   | -             | -     | 3.0                  | 6.0   | 33.0                  | 35.0   |
| 30       | 37.0                 | 35.0   | 38.5                 | 39.0   | 32.0                | 38.0   | 30.0              | 32.0  | 86.0                  | 64.0   | -             | -     | 4.0                  | 5.0   | 32.0                  | 35.0   |
| 31       | 23.0                 |        | 36.0                 |        | 26.0                |        | 25.0              |       | 92.0                  |        | 34.4          |       | 4.4                  |       | 21.0                  |        |
| Total    | 866.5                | 1018.5 | 1101.5               | 1192.5 | 954.0               | 1075.0 | 852.0             | 936.0 | 2500.0                | 2239.0 | 98.8          | 5.0   | 96.8                 | 138.0 | 935.0                 | 1122.5 |
| Average  | 28.0                 | 32.9   | 35.5                 | 38.5   | 30.8                | 34.7   | 27.5              | 30.2  | 80.6                  | 72.2   |               |       |                      |       | 30.2                  | 36.2   |
|          | 30.4                 |        | 37.0                 |        | 32.7                |        | 28.8              |       | 76.4                  |        | 103.8         |       | 234.8                |       | 33.2                  |        |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |       |                   |       |                       |          |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|----------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |          | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30    | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 29.0  |                      | 42.0   |                     | 38.5  |                   | 26.0  |                       | ..       |                           | -     |                         | 4.0   |                         | SE    |               | ..    |                      | 3.0   |                       | 37.0   |
| 1       | 30.0                 | 25.0  | 41.0                 | 44.0   | 33.5                | 25.0  | 26.0              | 24.0  | 53.0                  | 92.0     | -                         | -     | 0.2                     | 4.0   | SW                      | SW    | -             | 17.4  | 3.2                  | 60.6  | 31.5                  | 33.0   |
| 2       | 25.5                 | 28.0  | 43.5                 | 40.0   | 27.5                | 37.0  | 25.0              | 27.0  | 81.0                  | 44.0     | -                         | -     | 0.9                     | 1.9   | SW                      | SW    | -             | -     | 7.2                  | 20.6  | 27.5                  | 36.5   |
| 3       | 28.0                 | 27.5  | 40.0                 | 44.0   | 32.0                | 37.5  | 26.0              | 26.0  | 61.0                  | 39.0     | -                         | -     | 0.1                     | 4.5   | SW                      | SW    | -             | -     | 2.8                  | 2.8   | 32.0                  | 35.5   |
| 4       | 29.0                 | 34.0  | 40.0                 | 40.0   | 34.0                | 40.0  | 26.0              | 28.0  | 51.0                  | 34.0     | -                         | -     | 0.6                     | 5.0   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 34.0                  | 39.5   |
| 5       | 32.0                 | 33.0  | 43.0                 | 41.0   | 36.0                | 30.0  | 26.0              | 25.0  | 43.0                  | 65.0     | -                         | -     | 2.0                     | 4.7   | SW                      | SW    | -             | 12.2  | 4.0                  | 4.0   | 36.0                  | 38.0   |
| 6       | 25.0                 | 25.0  | 33.0                 | 33.0   | 28.5                | 34.5  | 26.0              | 27.0  | 81.0                  | 54.0     | -                         | 2.0   | 1.0                     | 2.6   | SW                      | SW    | 5.6           | -     | 0.8                  | 2.6   | 28.5                  | 37.0   |
| 7       | 29.0                 | 35.0  | 31.0                 | 35.0   | 31.0                | 33.0  | 25.0              | 26.0  | 60.0                  | 55.5     | -                         | -     | 0.3                     | 3.3   | NW                      | NW    | -             | -     | 0.4                  | 3.2   | 29.5                  | 36.0   |
| 8       | 32.0                 | 35.0  | 35.0                 | 39.0   | 30.0                | 36.0  | 25.0              | 26.0  | 65.0                  | 43.0     | -                         | -     | 0.9                     | 2.9   | NW                      | NW    | -             | -     | 2.8                  | 3.2   | 29.0                  | 37.5   |
| 9       | 29.0                 | 33.0  | 37.0                 | 37.0   | 30.0                | 35.0  | 23.0              | 25.0  | 53.0                  | 42.0     | 2.0                       | -     | 0.4                     | 3.2   | NW                      | NW    | -             | -     | 1.6                  | 2.8   | 30.0                  | 36.0   |
| 10      | 31.0                 | 34.0  | 42.0                 | 41.0   | 29.0                | 31.0  | 25.0              | 25.0  | 71.0                  | 71.0     | -                         | -     | 1.9                     | 3.1   | SW                      | SE    | -             | -     | 3.2                  | 3.6   | 28.5                  | 36.5   |
| 11      | 27.0                 | 27.5  | 33.0                 | 38.0   | 29.0                | 35.0  | 24.0              | 27.0  | 64.0                  | 52.0     | -                         | -     | 0.2                     | 4.4   | SW                      | SE    | -             | -     | 3.6                  | 0.8   | 28.5                  | 35.5   |
| 12      | 28.0                 | 26.0  | 32.0                 | 37.0   | 29.0                | 34.0  | 26.0              | 26.0  | 78.0                  | 51.0     | -                         | -     | 1.0                     | 3.9   | SW                      | NW    | -             | -     | 2.4                  | 2.4   | 29.0                  | 37.0   |
| 13      | 29.0                 | 31.0  | 38.0                 | 36.0   | 31.0                | 33.0  | 26.0              | 26.0  | 66.0                  | 56.0     | -                         | 2.0   | 1.3                     | 3.1   | SW                      | NW    | -             | -     | 3.2                  | 0.8   | 29.0                  | 34.0   |
| 14      | 29.0                 | 31.0  | 34.0                 | 40.0   | 31.0                | 38.0  | 26.0              | 26.0  | 66.0                  | 26.0     | -                         | -     | 1.1                     | 3.5   | NW                      | SW    | -             | -     | 3.0                  | 7.6   | 29.5                  | 37.0   |
| 15      | 30.0                 | 26.0  | 36.0                 | 44.0   | 31.0                | 27.0  | 26.0              | 25.0  | 66.0                  | 84.0     | -                         | -     | 0.3                     | 8.8   | NW                      | SE    | -             | 7.6   | 2.6                  | 6.0   | 27.0                  | 34.5   |
| 16      | 25.0                 | 28.0  | 33.0                 | 31.0   | 27.0                | 33.0  | 25.0              | 22.0  | 84.0                  | 35.0     | -                         | -     | 1.6                     | 2.7   | NW                      | NE    | 0.6           | -     | 4.2                  | 4.0   | 28.0                  | 36.0   |
| 17      | 28.0                 | 30.0  | 35.0                 | 40.0   | 30.0                | 37.0  | 26.0              | 26.0  | 72.0                  | 39.0     | -                         | -     | 0.9                     | 3.8   | NE                      | NE    | -             | -     | 4.0                  | 4.0   | 29.5                  | 38.0   |
| 18      | 28.5                 | 31.0  | 39.0                 | 42.0   | 31.0                | 38.0  | 25.0              | 26.5  | 60.0                  | 36.0     | -                         | -     | 0.7                     | 3.0   | NE                      | NW    | -             | -     | 4.4                  | 4.6   | 30.0                  | 38.5   |
| 19      | 30.0                 | 25.0  | 40.0                 | 41.0   | 30.0                | 25.0  | 26.0              | 23.5  | 72.0                  | 88.0     | 2.0                       | -     | 1.3                     | 3.5   | SW                      | SW    | -             | 8.6   | 4.5                  | 5.2   | 30.5                  | 34.0   |
| 20      | 25.0                 | 25.0  | 31.0                 | 41.0   | 31.0                | 36.0  | 26.5              | 26.5  | 69.0                  | 45.0     | -                         | -     | 0.5                     | 5.0   | SW                      | SW    | -             | -     | 5.0                  | 5.0   | 30.0                  | 37.0   |
| 21      | 27.0                 | 27.0  | 33.0                 | 40.0   | 30.0                | 25.0  | 25.0              | 24.0  | 65.0                  | 92.0     | -                         | -     | 1.2                     | 4.5   | SW                      | SW    | -             | 17.5  | 6.8                  | 4.8   | 29.0                  | 30.0   |
| 22      | 24.0                 | 27.0  | 27.0                 | 33.0   | 27.0                | 32.0  | 25.0              | 27.0  | 84.0                  | 67.0     | -                         | -     | 1.0                     | 2.9   | SW                      | SW    | 16.6          | -     | 3.0                  | 3.6   | 35.0                  | 36.0   |
| 23      | 25.0                 | 23.0  | 34.0                 | 32.0   | 27.0                | 34.0  | 25.0              | 27.0  | 84.0                  | 56.0     | -                         | -     | 1.7                     | 3.2   | NW                      | SW    | 3.0           | -     | 8.0                  | 1.6   | 34.0                  | 36.0   |
| 24      | 27.0                 | 25.0  | 36.0                 | 31.0   | 30.0                | 25.0  | 25.0              | 24.0  | 65.0                  | 92.0     | -                         | -     | 0.7                     | 2.4   | NW                      | SW    | -             | 12.4  | 2.0                  | 3.0   | 28.5                  | 35.0   |
| 25      | 24.0                 | 25.0  | 26.0                 | 30.0   | 25.0                | 30.0  | 24.0              | 26.0  | 92.0                  | 72.0     | -                         | -     | 1.1                     | 2.4   | NW                      | NW    | 22.6          | -     | 9.8                  | 3.2   | 27.5                  | 32.5   |
| 26      | 25.0                 | 25.0  | 31.0                 | 33.0   | 28.0                | 26.0  | 26.0              | 26.0  | 85.0                  | 95.0     | -                         | -     | 0.6                     | 1.3   | SW                      | SW    | -             | 74.4  | 1.2                  | 2.4   | 29.0                  | 28.5   |
| 27      | 30.0                 | 27.0  | 30.0                 | 30.0   | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0     | -                         | -     | 1.1                     | 3.2   | SW                      | SW    | 1.2           | 1.0   | 2.0                  | 2.2   | 27.0                  | 32.5   |
| 28      | 26.0                 | 26.0  | 28.0                 | 33.0   | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0     | -                         | -     | 1.4                     | 2.7   | SW                      | SW    | -             | -     | 0.4                  | 2.0   | 27.5                  | 30.5   |
| 29      | 26.0                 | 24.0  | 28.0                 | 35.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0     | -                         | -     | 1.3                     | 3.1   | SW                      | SW    | -             | -     | 0.4                  | 1.2   | 27.5                  | 35.5   |
| 30      | 24.0                 |       | 31.0                 |        | 27.0                |       | 25.0              |       | 84.0                  |          | -                         |       | 1.6                     |       | SW                      |       | 24.3          |       | 0.8                  |       | 27.5                  |        |
| Total   | 828.0                | 848.0 | 1040.5               | 1123.0 | 885.5               | 971.5 | 758.5             | 772.5 | 2127.0                | 1773.5 * | 4.0                       | 4.0   | 28.7                    | 106.8 |                         |       | 73.9          | 151.1 | 101.3                | 174.8 | 890.0                 | 1060.5 |
| Average | 27.6                 | 28.3  | 34.7                 | 37.4   | 29.5                | 32.4  | 25.3              | 25.8  | 70.9                  | 61.2 *   | 0.1                       | 0.1   | 1.0                     | 3.6   |                         |       |               |       |                      |       | 29.7                  | 35.4   |
|         | 27.9                 |       | 36.1                 |        | 31.0                |       | 25.5              |       | 66.0 *                |          | 0.1                       |       | 2.3                     |       |                         |       | 225.0 *       |       | 276.1                |       | 32.5                  |        |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 24.0  |                      | 35.0  |                     | 32.0  |                   | 27.5  |                       | 70.0   |                           | -     |                         | 4.8   |                         | SW    |               | -     |                      | 1.2   |                       | 35.0  |
| 1       | 24.0                 | 24.0  | 32.0                 | 33.0  | 25.5                | 31.0  | 24.5              | 26.0  | 92.0                  | 67.0   | 2.0                       | 2.0   | 2.4                     | 6.2   | NW                      | SW    | 51.0          | -     | 3.0                  | 1.2   | 26.5                  | 34.0  |
| 2       | 22.0                 | 24.0  | 29.0                 | 31.0  | 24.0                | 28.0  | 22.5              | 25.0  | 87.0                  | 77.0   | -                         | -     | 0.6                     | 2.8   | NW                      | SW    | 2.2           | 33.4  | 1.0                  | 1.4   | 25.5                  | 29.0  |
| 3       | 23.0                 | 25.0  | 30.0                 | 31.0  | 26.0                | 28.0  | 24.0              | 27.0  | 84.0                  | 92.0   | 2.0                       | -     | 2.3                     | 4.3   | SW                      | NW    | -             | -     | 1.6                  | 1.6   | 26.0                  | 28.0  |
| 4       | 26.0                 | 27.0  | 31.0                 | 33.0  | 28.0                | 27.0  | 25.0              | 25.0  | 77.0                  | 84.0   | 2.0                       | 2.0   | 2.2                     | 5.7   | SW                      | SW    | -             | 1.0   | 1.2                  | 1.6   | 27.0                  | 31.0  |
| 5       | 30.0                 | 26.0  | 30.0                 | 34.0  | 26.0                | 29.0  | 24.0              | 26.0  | 64.0                  | 78.0   | 2.0                       | -     | 1.0                     | 2.6   | SW                      | SW    | -             | -     | 1.0                  | 1.2   | 26.5                  | 33.0  |
| 6       | 26.0                 | 33.0  | 30.0                 | 33.0  | 28.0                | 28.0  | 25.0              | 26.0  | 77.0                  | 85.0   | -                         | 2.0   | 1.8                     | 4.7   | SW                      | SW    | -             | 9.6   | 2.8                  | 1.0   | 28.0                  | 33.5  |
| 7       | 26.0                 | 29.0  | 34.0                 | 33.0  | 29.0                | 33.0  | 26.0              | 25.0  | 78.0                  | 40.0   | -                         | -     | 0.9                     | 5.5   | SW                      | SW    | -             | -     | 1.6                  | 1.4   | 27.0                  | 34.0  |
| 8       | 27.0                 | 30.0  | 36.0                 | 37.0  | 30.0                | 35.0  | 26.0              | 27.0  | 72.0                  | 52.0   | 2.0                       | 2.0   | 1.8                     | 5.2   | SW                      | SW    | -             | -     | 2.0                  | 3.2   | 30.0                  | 30.0  |
| 9       | 27.0                 | 27.0  | 29.0                 | 28.5  | 29.0                | 26.0  | 26.0              | 25.0  | 78.0                  | 92.0   | 2.0                       | 2.0   | 0.7                     | 3.1   | SW                      | SW    | -             | 15.4  | 2.4                  | 2.4   | 29.0                  | 32.0  |
| 10      | 25.5                 | 26.0  | 32.0                 | 35.0  | 27.0                | 26.0  | 26.0              | 24.0  | 92.0                  | 84.0   | -                         | 2.0   | 0.5                     | 3.5   | NW                      | NW    | 10.4          | 8.0   | 2.4                  | 1.8   | 27.0                  | 28.0  |
| 11      | 25.0                 | 25.0  | 27.0                 | 31.0  | 25.0                | 27.0  | 24.0              | 25.0  | 92.0                  | 84.0   | -                         | 2.0   | 1.4                     | 1.6   | NW                      | NW    | -             | 2.4   | 0.6                  | 0.4   | 25.0                  | 30.0  |
| 12      | 25.0                 | 26.0  | 28.0                 | 43.0  | 26.5                | 29.0  | 24.5              | 25.0  | 84.0                  | 71.0   | 2.0                       | 2.0   | 0.6                     | 5.9   | NW                      | NW    | 1.0           | -     | 2.4                  | 1.2   | 26.5                  | 33.0  |
| 13      | 25.0                 | 27.0  | 31.0                 | 30.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 76.0   | 2.0                       | 2.0   | 1.1                     | 3.3   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 27.5                  | 32.0  |
| 14      | 26.0                 | 28.0  | 32.0                 | 29.0  | 27.0                | 25.0  | 25.0              | 25.0  | 84.0                  | 96.0   | 2.0                       | 2.0   | 0.4                     | 2.0   | SW                      | SW    | -             | 13.6  | 1.6                  | 1.6   | 28.5                  | 29.5  |
| 15      | 24.0                 | 29.0  | 29.0                 | 33.0  | 26.5                | 27.0  | 25.0              | 26.5  | 88.0                  | 96.0   | -                         | 2.0   | 0.9                     | 3.5   | SW                      | SW    | 44.4          | -     | 2.4                  | 1.6   | 26.5                  | 32.0  |
| 16      | 23.5                 | 25.0  | 30.0                 | 31.0  | 25.5                | 28.0  | 24.5              | 26.0  | 92.0                  | 85.0   | -                         | -     | 2.4                     | 4.3   | SW                      | SW    | 2.8           | 0.6   | 0.2                  | 0.4   | 25.0                  | 30.0  |
| 17      | 26.0                 | 26.0  | 27.0                 | 30.0  | 25.5                | 26.0  | 24.0              | 25.0  | 88.0                  | 92.0   | 2.0                       | 2.0   | 2.1                     | 1.7   | SW                      | NE    | 6.0           | 16.0  | 1.2                  | 2.4   | 26.0                  | 28.5  |
| 18      | 25.0                 | 26.0  | 29.0                 | 30.0  | 26.5                | 26.0  | 25.5              | 24.0  | 92.0                  | 84.0   | -                         | -     | 1.7                     | 2.9   | SW                      | SW    | 42.6          | 8.6   | 0.6                  | 1.0   | 27.0                  | 27.0  |
| 19      | 26.0                 | 27.0  | 29.0                 | 30.0  | 28.0                | 28.0  | 27.0              | 26.0  | 92.0                  | 85.0   | -                         | 2.0   | 0.4                     | 1.3   | SW                      | SW    | 3.0           | 1.0   | 0.2                  | 1.0   | 28.5                  | 30.0  |
| 20      | 26.0                 | 27.0  | 30.5                 | 32.0  | 26.5                | 28.5  | 25.0              | 26.0  | 92.0                  | 88.0   | 2.0                       | -     | 0.8                     | 3.4   | SW                      | SW    | -             | 1.0   | 0.8                  | 1.0   | 27.0                  | 29.5  |
| 21      | 27.0                 | 28.0  | 32.0                 | 30.0  | 28.0                | 29.0  | 26.5              | 26.5  | 88.0                  | 81.0   | 2.0                       | 2.0   | 0.9                     | 3.0   | SE                      | NE    | -             | -     | 0.4                  | 1.2   | 25.5                  | 28.5  |
| 22      | 26.0                 | 28.0  | 32.0                 | 30.5  | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | 2.0                       | -     | 0.3                     | 3.3   | SE                      | NE    | -             | -     | 0.8                  | 0.8   | 26.5                  | 30.0  |
| 23      | 26.0                 | 28.0  | 30.0                 | 31.5  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -                         | 2.0   | 1.4                     | 3.5   | SE                      | NE    | -             | -     | 2.0                  | 1.2   | 27.0                  | 29.0  |
| 24      | 25.0                 | 29.0  | 31.0                 | 32.0  | 25.5                | 29.0  | 24.5              | 27.5  | 92.0                  | 88.0   | -                         | 2.0   | 1.6                     | 4.4   | SW                      | SW    | 4.0           | -     | 0.8                  | 0.8   | 26.5                  | 29.5  |
| 25      | 25.0                 | 27.0  | 30.0                 | 27.0  | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | 2.0   | 1.8                     | 4.7   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 27.0                  | 32.0  |
| 26      | 25.0                 | 25.0  | 28.0                 | 30.0  | 25.0                | 26.0  | 24.0              | 23.0  | 92.0                  | 76.0   | 2.0                       | 2.0   | 1.9                     | 3.7   | SW                      | SW    | 4.8           | 1.4   | 2.4                  | 0.2   | 26.5                  | 27.5  |
| 27      | 24.0                 | 25.0  | 29.0                 | 31.5  | 26.0                | 29.0  | 24.0              | 25.0  | 84.0                  | 71.0   | -                         | 2.0   | 0.8                     | 6.9   | SW                      | SW    | 0.6           | -     | 0.2                  | 0.8   | 26.0                  | 31.5  |
| 28      | 25.0                 | 27.0  | 29.0                 | 31.5  | 28.0                | 30.0  | 25.0              | 26.0  | 64.0                  | 72.0   | -                         | 2.0   | 1.0                     | 2.5   | SW                      | SW    | -             | -     | 1.0                  | 0.4   | 27.0                  | 32.0  |
| 29      | 26.0                 | 27.5  | 30.0                 | 32.0  | 28.0                | 29.0  | 24.0              | 27.0  | 70.0                  | 85.0   | 2.0                       | 2.0   | 0.7                     | 4.6   | SW                      | SW    | -             | -     | 0.4                  | 0.6   | 28.5                  | 33.0  |
| 30      | 27.0                 | 28.0  | 31.0                 | 31.5  | 27.0                | 28.5  | 25.0              | 27.5  | 84.0                  | 85.0   | -                         | -     | 0.6                     | 4.5   | SW                      | SW    | -             | -     | 1.0                  | 1.4   | 29.0                  | 32.5  |
| 31      | 25.0                 |       | 31.0                 |       | 27.0                |       | 25.0              |       | 84.0                  |        | -                         |       | 0.6                     |       | SW                      |       | -             |       | 2.8                  |       | 28.5                  |       |
| Total   | 789.0                | 833.5 | 938.5                | 990.0 | 832.0               | 886.0 | 771.5             | 799.5 | 2599.0                | 2464.0 | 32.0                      | 42.0  | 37.2                    | 119.3 |                         |       | 172.8         | 112.0 | 43.6                 | 38.8  | 838.0                 | 954.5 |
| Average | 25.5                 | 26.9  | 30.3                 | 31.9  | 26.8                | 28.6  | 24.9              | 25.8  | 83.8                  | 79.5   | 1.0                       | 1.4   | 1.2                     | 3.8   |                         |       |               |       |                      |       | 27.0                  | 30.8  |
|         | 26.2                 |       | 31.1                 |       | 27.7                |       | 25.3              |       | 81.7                  |        | 1.2                       |       | 2.5                     |       |                         |       | 284.8         |       | 82.4                 |       | 28.9                  |       |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Aug-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 28.5  |                      | 33.0  |                     | 30.5  |                   | 28.0  |                       | 85.0   |                           | 2.0   |                         | 3.7   |                         | SW    |               | -     |                      | 2.0   |                       | 32.0   |
| 1       | 28.0                 | 24.0  | 34.0                 | 33.0  | 30.0                | 31.0  | 26.0              | 27.0  | 72.0                  | 78.0   | 2.0                       | 2.0   | 0.6                     | 2.6   | SW                      | SW    | -             | 6.6   | 1.8                  | 1.4   | 30.0                  | 34.0   |
| 2       | 25.0                 | 24.0  | 32.0                 | 34.0  | 29.0                | 28.0  | 26.0              | 26.5  | 68.0                  | 81.0   | 2.0                       | -     | 0.4                     | 2.3   | SW                      | SW    | -             | 1.8   | 0.4                  | 1.4   | 29.0                  | 32.5   |
| 3       | 25.0                 | 24.0  | 29.5                 | 33.0  | 28.0                | 31.5  | 25.0              | 26.0  | 68.0                  | 62.0   | 2.0                       | 2.0   | 1.1                     | 5.2   | SW                      | SW    | -             | -     | 1.2                  | 2.4   | 28.0                  | 35.5   |
| 4       | 26.5                 | 26.5  | 32.5                 | 30.0  | 28.5                | 27.0  | 25.0              | 25.0  | 74.0                  | 84.0   | 2.0                       | 2.0   | 1.3                     | 4.6   | SW                      | NW    | -             | -     | 1.4                  | 0.4   | 28.5                  | 32.5   |
| 5       | 26.0                 | 25.0  | 29.0                 | 30.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 2.0                       | -     | 1.3                     | 2.5   | NW                      | SW    | -             | -     | 1.6                  | 1.2   | 27.5                  | 31.0   |
| 6       | 25.0                 | 24.0  | 32.5                 | 30.0  | 25.0                | 27.0  | 23.0              | 24.0  | 84.0                  | 77.0   | 2.0                       | 2.0   | 1.2                     | 2.6   | NE                      | NE    | 17.2          | -     | 2.0                  | 0.2   | 26.0                  | 29.5   |
| 7       | 26.0                 | 25.0  | 29.0                 | 30.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | -                         | -     | 1.7                     | 2.6   | NW                      | NE    | 13.8          | -     | 2.6                  | 0.4   | 27.0                  | 32.0   |
| 8       | 26.0                 | 26.0  | 28.0                 | 30.0  | 27.0                | 28.5  | 25.5              | 25.5  | 88.0                  | 77.0   | -                         | -     | 0.5                     | 3.0   | SE                      | SW    | -             | -     | 0.4                  | 1.2   | 28.0                  | 32.0   |
| 9       | 26.0                 | 25.0  | 30.0                 | 30.0  | 25.0                | 29.5  | 24.0              | 26.0  | 92.0                  | 74.0   | -                         | 2.0   | 2.1                     | 2.9   | SW                      | NW    | 5.0           | -     | 2.2                  | 1.4   | 26.5                  | 31.0   |
| 10      | 25.0                 | 25.0  | 31.0                 | 31.0  | 25.0                | 30.0  | 24.5              | 26.0  | 92.0                  | 72.0   | -                         | 2.0   | 1.8                     | 2.9   | SW                      | NW    | -             | -     | 1.0                  | 1.0   | 26.0                  | 33.0   |
| 11      | 26.0                 | 29.0  | 30.0                 | 34.0  | 28.5                | 31.5  | 26.0              | 26.5  | 81.0                  | 66.0   | -                         | 2.0   | 0.6                     | 3.8   | NE                      | SW    | -             | -     | 0.8                  | 3.2   | 27.0                  | 36.0   |
| 12      | 26.0                 | 26.0  | 32.0                 | 32.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 2.0                       | 2.0   | 1.7                     | 4.3   | SW                      | SW    | -             | -     | 1.8                  | 1.4   | 27.5                  | 34.5   |
| 13      | 26.0                 | 28.0  | 30.0                 | 31.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | -     | 0.6                     | 4.1   | SW                      | NW    | 2.4           | -     | 1.2                  | 1.6   | 28.0                  | 33.0   |
| 14      | 25.0                 | 26.0  | 31.0                 | 32.0  | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | -     | 1.2                     | 1.0   | SW                      | SW    | 1.4           | 2.4   | 1.0                  | 2.4   | 27.0                  | 32.0   |
| 15      | 25.0                 | 26.0  | 31.0                 | 33.0  | 26.5                | 28.0  | 25.0              | 25.0  | 88.0                  | 77.0   | -                         | 2.0   | 0.9                     | 2.7   | NW                      | SW    | 10.8          | -     | 2.0                  | 1.2   | 27.0                  | 34.0   |
| 16      | 26.0                 | 25.0  | 29.0                 | 33.0  | 27.0                | 29.0  | 25.0              | 25.0  | 84.0                  | 78.0   | -                         | 2.0   | 0.6                     | 2.8   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 28.0                  | 35.0   |
| 17      | 25.0                 | 27.0  | 30.0                 | 30.0  | 27.0                | 24.0  | 26.0              | 23.0  | 92.0                  | 91.0   | -                         | -     | 0.6                     | 2.7   | SW                      | NW    | -             | 19.0  | 0.8                  | 2.2   | 28.0                  | 29.5   |
| 18      | 27.0                 | 26.0  | 29.0                 | 30.5  | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | 2.0   | 0.7                     | 1.0   | NE                      | NE    | 10.8          | 18.0  | 2.4                  | 1.6   | 26.5                  | 31.5   |
| 19      | 27.0                 | 25.0  | 30.0                 | 32.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | -                         | 2.0   | 0.2                     | 1.7   | NE                      | SE    | 7.8           | -     | 1.6                  | 0.8   | 26.5                  | 34.0   |
| 20      | 26.5                 | 26.5  | 29.0                 | 30.0  | 28.0                | 28.0  | 26.0              | 25.0  | 84.0                  | 77.0   | 2.0                       | -     | 0.3                     | 0.9   | NW                      | NE    | 2.0           | 9.0   | 0.8                  | 1.6   | 27.0                  | 31.5   |
| 21      | 27.0                 | 27.0  | 28.0                 | 34.0  | 28.0                | 32.0  | 25.0              | 27.5  | 77.0                  | 70.0   | -                         | -     | 0.3                     | 1.0   | NE                      | NE    | 1.0           | -     | 0.2                  | 2.0   | 27.5                  | 36.0   |
| 22      | 26.0                 | 25.0  | 34.0                 | 33.0  | 27.0                | 32.0  | 25.0              | 27.0  | 84.0                  | 67.0   | -                         | -     | 0.4                     | 2.2   | NE                      | SE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 36.0   |
| 23      | 25.0                 | 24.0  | 33.0                 | 30.0  | 28.5                | 32.0  | 26.0              | 27.0  | 96.0                  | 79.0   | -                         | -     | 0.1                     | 2.6   | NE                      | NW    | -             | -     | 1.2                  | 1.8   | 29.0                  | 36.5   |
| 24      | 27.0                 | 26.0  | 32.0                 | 32.0  | 25.5                | 30.0  | 25.0              | 27.0  | 78.0                  | 78.0   | -                         | -     | 0.4                     | 1.3   | NW                      | NW    | 20.6          | -     | 1.4                  | 1.2   | 27.5                  | 34.5   |
| 25      | 25.0                 | 25.0  | 31.0                 | 34.0  | 27.0                | 31.0  | 25.0              | 27.5  | 84.0                  | 79.0   | -                         | -     | 0.5                     | 1.0   | NE                      | NW    | 0.6           | -     | 0.6                  | 1.6   | 28.5                  | 36.5   |
| 26      | 25.0                 | 27.5  | 32.0                 | 35.0  | 28.0                | 28.5  | 26.0              | 27.0  | 85.0                  | 96.0   | -                         | -     | 0.3                     | 1.5   | NE                      | NE    | -             | 2.6   | 1.2                  | 1.4   | 29.0                  | 34.0   |
| 27      | 27.0                 | 24.0  | 30.0                 | 31.0  | 28.0                | 31.0  | 25.0              | 27.0  | 77.0                  | 73.0   | -                         | -     | 0.6                     | 0.8   | NW                      | NE    | 2.6           | -     | 1.4                  | 1.6   | 29.5                  | 36.5   |
| 28      | 25.0                 | 27.0  | 32.0                 | 29.0  | 25.0                | 25.0  | 24.0              | 24.0  | 92.0                  | 92.0   | -                         | -     | 0.5                     | 0.4   | NW                      | NE    | 22.6          | 39.4  | 1.6                  | 0.6   | 27.5                  | 29.0   |
| 29      | 27.0                 | 25.5  | 32.0                 | 33.5  | 25.0                | 27.0  | 24.0              | 21.0  | 92.0                  | 56.0   | -                         | -     | 0.4                     | 2.3   | NW                      | SE    | 40.6          | -     | 0.6                  | 1.2   | 26.5                  | 36.5   |
| 30      | 26.0                 | 25.0  | 32.0                 | 35.0  | 27.0                | 33.5  | 25.0              | 28.0  | 84.0                  | 68.0   | -                         | -     | 0.4                     | 1.5   | SE                      | SE    | -             | -     | 1.2                  | 1.6   | 27.5                  | 38.0   |
| 31      | 25.0                 |       | 30.0                 |       | 29.0                |       | 27.0              |       | 85.0                  |        | -                         |       | -                       |       | SE                      |       | -             |       | 1.6                  |       | 28.0                  |        |
| Total   | 803.0                | 797.5 | 954.5                | 988.0 | 838.5               | 910.5 | 780.0             | 806.5 | 2622.0                | 2390.0 | 20.0                      | 26.0  | 23.3                    | 74.5  |                         |       | 159.2         | 98.8  | 41.2                 | 45.6  | 857.5                 | 1039.5 |
| Average | 25.9                 | 25.7  | 30.8                 | 31.9  | 27.0                | 29.4  | 25.2              | 26.0  | 84.6                  | 77.1   | 0.6                       | 0.8   | 0.8                     | 2.4   |                         |       |               |       |                      |       | 27.7                  | 33.5   |
|         | 25.8                 |       | 31.3                 |       | 28.2                |       | 25.6              |       | 80.8                  |        | 0.7                       |       | 1.6                     |       |                         |       | 258.0         |       | 86.8                 |       | 30.6                  |        |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 24.0  |                      | 33.0  |                     | 29.0  |                   | 26.0  |                       | 78.0   |                           | -     |                         | 2.1   |                         | NE    |               | -     |                      | 0.6   |                       | 33.5   |
| 1       | 26.0                 | 29.0  | 30.0                 | 35.0  | 29.0                | 32.5  | 27.0              | 27.5  | 85.0                  | 67.0   | -                         | 2.0   | 0.1                     | 3.0   | NE                      | NW    | -             | -     | 1.2                  | 2.0   | 28.5                  | 38.0   |
| 2       | 25.0                 | 24.0  | 33.0                 | 30.0  | 28.0                | 31.0  | 25.0              | 27.0  | 77.0                  | 73.0   | -                         | -     | 0.6                     | 3.2   | NW                      | NW    | -             | -     | 1.0                  | 2.8   | 28.5                  | 36.5   |
| 3       | 26.0                 | 26.0  | 32.0                 | 32.0  | 29.0                | 32.0  | 26.0              | 27.0  | 78.0                  | 67.0   | -                         | -     | 0.3                     | 2.8   | NW                      | SW    | -             | -     | 1.2                  | 2.0   | 28.0                  | 36.5   |
| 4       | 26.0                 | 24.0  | 34.0                 | 31.0  | 29.5                | 32.0  | 29.0              | 27.5  | 96.0                  | 73.0   | -                         | -     | 0.4                     | 2.9   | SW                      | SW    | -             | -     | 2.4                  | 2.4   | 28.5                  | 38.0   |
| 5       | 26.0                 | 28.0  | 34.0                 | 34.5  | 29.5                | 33.5  | 29.0              | 28.0  | 96.0                  | 68.0   | -                         | -     | 0.2                     | 1.6   | SW                      | SW    | -             | -     | 2.0                  | 1.2   | 29.5                  | 37.0   |
| 6       | 27.0                 | 30.0  | 34.0                 | 37.0  | 29.5                | 29.5  | 25.0              | 29.0  | 96.0                  | 96.0   | -                         | -     | 0.1                     | 1.3   | SW                      | NW    | -             | -     | 1.2                  | 2.4   | 29.5                  | 36.5   |
| 7       | 28.0                 | 30.0  | 32.0                 | 36.0  | 28.0                | 32.5  | 26.0              | 28.0  | 85.0                  | 70.0   | -                         | -     | 0.1                     | 1.3   | NW                      | NW    | -             | -     | 1.6                  | 1.6   | 29.5                  | 37.0   |
| 8       | 28.0                 | 31.0  | 34.5                 | 36.5  | 28.5                | 33.0  | 26.5              | 29.0  | 85.0                  | 73.0   | -                         | -     | 0.0                     | 3.5   | NW                      | NE    | -             | -     | 1.6                  | 1.2   | 29.5                  | 37.5   |
| 9       | 28.5                 | 26.0  | 34.0                 | 31.0  | 28.5                | 29.0  | 27.5              | 25.0  | 92.0                  | 71.0   | -                         | 2.0   | 0.2                     | 1.4   | SW                      | SW    | -             | -     | 2.4                  | 1.2   | 28.5                  | 36.0   |
| 10      | 27.0                 | 27.0  | 30.0                 | 33.0  | 30.0                | 29.0  | 27.0              | 26.5  | 78.0                  | 74.0   | -                         | -     | 0.4                     | 1.2   | SE                      | SE    | 6.8           | -     | 1.6                  | 1.0   | 27.5                  | 34.5   |
| 11      | 27.0                 | 28.0  | 30.0                 | 37.0  | 30.0                | 26.0  | 28.0              | 23.5  | 85.0                  | 80.0   | -                         | -     | 0.0                     | 1.6   | SE                      | NW    | -             | 1.8   | 3.2                  | 3.0   | 29.5                  | 36.0   |
| 12      | 25.5                 | 28.0  | 28.5                 | 32.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | -                         | -     | 0.2                     | 1.1   | SW                      | SW    | 0.8           | -     | 0.4                  | 0.4   | 27.5                  | 32.0   |
| 13      | 25.0                 | 27.0  | 32.0                 | 33.0  | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | -                         | -     | 0.2                     | 3.3   | SW                      | SW    | 0.6           | -     | 1.4                  | 0.2   | 28.0                  | 32.5   |
| 14      | 25.0                 | 27.0  | 31.0                 | 30.5  | 27.0                | 27.5  | 25.0              | 25.5  | 84.0                  | 84.0   | -                         | 2.0   | 0.1                     | 1.1   | SW                      | SW    | -             | 2.4   | 1.6                  | 1.2   | 27.5                  | 30.5   |
| 15      | 25.0                 | 26.0  | 32.0                 | 31.0  | 27.0                | 31.0  | 25.0              | 27.0  | 84.0                  | 73.0   | -                         | -     | 0.2                     | 0.3   | NE                      | SW    | -             | -     | 0.6                  | 0.6   | 26.5                  | 34.5   |
| 16      | 26.0                 | 27.0  | 31.0                 | 27.0  | 27.5                | 34.0  | 26.0              | 28.0  | 88.0                  | 62.0   | -                         | -     | 0.0                     | 1.1   | SW                      | NE    | -             | -     | 1.6                  | 2.0   | 28.0                  | 36.5   |
| 17      | 26.5                 | 25.0  | 32.0                 | 31.0  | 28.0                | 28.0  | 25.0              | 24.5  | 77.0                  | 74.0   | -                         | -     | 0.2                     | 1.6   | NW                      | NW    | -             | 28.4  | 1.2                  | 0.4   | 29.0                  | 33.5   |
| 18      | 24.0                 | 24.0  | 30.0                 | 32.0  | 26.0                | 29.5  | 24.5              | 26.5  | 83.0                  | 78.0   | -                         | -     | 0.4                     | 3.2   | SW                      | SW    | -             | -     | 1.2                  | 1.2   | 28.0                  | 33.0   |
| 19      | 24.0                 | 30.0  | 28.0                 | 31.0  | 26.0                | 25.0  | 25.0              | 24.0  | 92.0                  | 92.0   | -                         | -     | 1.2                     | 3.8   | SW                      | SW    | 32.2          | 1.4   | 0.2                  | 1.8   | 26.0                  | 33.5   |
| 20      | 15.0                 | 24.0  | 24.0                 | 25.0  | 24.0                | 24.0  | 23.0              | 24.0  | 96.0                  | 91.0   | -                         | -     | 1.3                     | 2.7   | SW                      | SW    | 17.4          | 13.0  | -                    | -     | 25.5                  | 27.0   |
| 21      | 24.0                 | 26.0  | 25.5                 | 31.0  | 25.5                | 28.0  | 24.5              | 24.5  | 92.0                  | 74.0   | -                         | -     | 0.3                     | 1.5   | SW                      | SW    | -             | 1.2   | 0.2                  | -     | 26.0                  | 31.5   |
| 22      | 25.0                 | 26.0  | 30.0                 | 31.0  | 25.5                | 29.0  | 25.0              | 26.0  | 96.0                  | 78.0   | -                         | -     | 0.3                     | 3.3   | SW                      | NE    | -             | -     | 0.8                  | 0.4   | 27.0                  | 33.5   |
| 23      | 25.0                 | 25.0  | 32.0                 | 30.0  | 26.0                | 32.0  | 25.0              | 26.5  | 92.0                  | 64.0   | -                         | -     | 0.1                     | 1.7   | NW                      | NE    | -             | -     | 1.6                  | 0.8   | 27.0                  | 36.0   |
| 24      | 25.0                 | 27.0  | 33.0                 | 36.0  | 27.5                | 32.0  | 25.0              | 27.5  | 81.0                  | 70.0   | -                         | -     | 0.1                     | 1.4   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 28.0                  | 36.0   |
| 25      | 26.0                 | 27.0  | 31.0                 | 35.0  | 28.0                | 33.0  | 26.0              | 28.0  | 85.0                  | 68.0   | -                         | -     | 0.0                     | 1.1   | NE                      | NE    | -             | -     | 0.8                  | 2.0   | 27.5                  | 36.0   |
| 26      | 26.5                 | 26.0  | 30.5                 | 36.0  | 27.0                | 32.0  | 25.0              | 26.0  | 84.0                  | 92.0   | -                         | -     | 0.0                     | 1.5   | NE                      | NE    | -             | -     | 2.0                  | 1.2   | 28.0                  | 36.0   |
| 27      | 26.0                 | 26.0  | 33.0                 | 36.0  | 28.0                | 32.0  | 26.0              | 26.0  | 88.0                  | 73.0   | -                         | -     | 0.0                     | 1.3   | NE                      | NE    | -             | -     | 2.0                  | 1.4   | 28.5                  | 36.0   |
| 28      | 26.0                 | 27.0  | 32.0                 | 36.0  | 28.0                | 29.0  | 25.0              | 26.0  | -                     | -      | -                         | -     | 0.1                     | 1.2   | NE                      | NE    | -             | 1.8   | 2.0                  | -     | 28.5                  | 35.5   |
| 29      | 24.0                 | 26.0  | 30.0                 | 34.0  | 26.5                | 30.0  | 25.0              | 27.0  | -                     | -      | -                         | -     | 0.2                     | 0.7   | NE                      | NE    | 25.0          | -     | 0.4                  | 0.8   | 27.0                  | 34.0   |
| 30      | 24.0                 |       | 30.0                 |       | 26.0                |       | 25.0              |       | -                     |        | -                         |       | 0.3                     |       | NE                      |       | -             |       | 1.6                  |       | 27.0                  |        |
| Total   | 762.0                | 801.0 | 933.0                | 983.5 | 828.0               | 902.0 | 772.0             | 792.0 | 2344.0                | 2118.0 | -                         | 6.0   | 7.6                     | 57.5  |                         |       | 82.8          | 50.0  | 40.6                 | 37.4  | 837.5                 | 1044.5 |
| Average | 25.4                 | 26.7  | 31.1                 | 32.8  | 27.6                | 30.1  | 25.7              | 26.4  | 78.1                  | 70.6   | -                         | 0.2   | 0.3                     | 1.9   |                         |       |               |       |                      |       | 27.9                  | 34.8   |
|         | 26.1                 |       | 31.9                 |       | 28.8                |       | 26.1              |       | 74.4                  |        | 0.1                       |       | 1.1                     |       |                         |       | 132.8         |       | 78.0                 |       | 31.4                  |        |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 26.0  |                      | 30.0   |                     | 30.0  |                   | 26.0  |                       | -      |                           | 2.0   |                         | 1.0   |                         | NE    |               | -     |                      | 1.6   |                       | 34.5   |
| 1       | 26.0                 | 28.0  | 30.0                 | 32.0   | 27.5                | 28.0  | 25.0              | 26.0  | 85.0                  | 81.0   | -                         | -     | 0.1                     | 0.6   | NE                      | NE    | -             | -     | 1.2                  | 0.6   | 28.0                  | 31.5   |
| 2       | 24.0                 | 27.5  | 30.0                 | 32.0   | 26.0                | 29.0  | 24.5              | 27.0  | 88.0                  | 85.0   | -                         | -     | 0.2                     | 0.8   | NE                      | NW    | 0.8           | -     | 0.4                  | 0.8   | 26.5                  | 32.0   |
| 3       | 25.0                 | 28.0  | 30.0                 | 35.5   | 28.0                | 31.5  | 26.0              | 27.5  | 85.0                  | 73.0   | -                         | -     | -                       | 1.0   | NE                      | NW    | -             | -     | 0.4                  | 1.2   | 28.0                  | 35.5   |
| 4       | 26.0                 | 26.5  | 33.0                 | 33.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -                         | -     | -                       | 0.6   | NW                      | SE    | -             | 3.8   | 1.2                  | 0.2   | 26.0                  | 31.5   |
| 5       | 26.0                 | 26.0  | 31.0                 | 32.0   | 27.0                | 31.0  | 25.0              | 27.5  | 84.0                  | 76.0   | -                         | -     | 0.1                     | 1.3   | SE                      | NE    | -             | -     | 1.6                  | 1.2   | 26.0                  | 36.5   |
| 6       | 26.0                 | 27.0  | 31.0                 | 31.0   | 27.5                | 29.0  | 25.0              | 25.0  | 84.0                  | 71.0   | -                         | -     | 0.1                     | 1.7   | NE                      | NE    | -             | -     | 2.0                  | 1.2   | 28.0                  | 35.0   |
| 7       | 25.0                 | 26.0  | 29.0                 | 32.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 0.7   | SE                      | NW    | 35.8          | 5.2   | 0.4                  | 0.8   | 27.0                  | 32.0   |
| 8       | 25.5                 | 26.0  | 29.0                 | 32.0   | 26.5                | 28.5  | 24.0              | 26.0  | 83.0                  | 81.0   | -                         | -     | 0.1                     | 1.4   | SW                      | NE    | -             | -     | 0.2                  | 2.0   | 27.5                  | 34.0   |
| 9       | 24.0                 | 24.0  | 28.5                 | 30.0   | 26.0                | 27.0  | 24.0              | 25.5  | 73.0                  | 81.0   | -                         | -     | 0.1                     | 0.3   | NE                      | NE    | 40.0          | 37.4  | 0.8                  | 0.4   | 26.5                  | 29.5   |
| 10      | 25.0                 | 25.0  | 28.0                 | 34.0   | 26.5                | 27.0  | 25.0              | 25.5  | 88.0                  | 81.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | 1.0   | 0.4                  | 1.2   | 26.5                  | 32.5   |
| 11      | 24.0                 | 26.0  | 28.0                 | 31.0   | 27.0                | 28.5  | 25.5              | 27.0  | 73.0                  | 92.0   | -                         | -     | 0.1                     | 1.0   | NE                      | SE    | -             | -     | 0.8                  | 1.6   | 27.5                  | 30.5   |
| 12      | 25.0                 | 27.0  | 30.0                 | 33.0   | 27.5                | 31.0  | 25.5              | 27.5  | 73.0                  | 75.0   | -                         | -     | -                       | 0.9   | NE                      | NE    | -             | -     | 1.2                  | 1.6   | 27.5                  | 30.5   |
| 13      | 25.0                 | 27.0  | 31.0                 | 32.0   | 27.5                | 31.0  | 25.0              | 27.5  | 81.0                  | 75.0   | -                         | -     | 0.1                     | 1.1   | NE                      | NE    | -             | -     | 1.2                  | 2.8   | 27.5                  | 36.0   |
| 14      | 25.0                 | 27.0  | 31.0                 | 33.0   | 27.0                | 31.0  | 25.0              | 27.5  | 80.0                  | 75.0   | -                         | -     | 0.1                     | 0.9   | NE                      | NW    | -             | -     | 1.6                  | 1.6   | 28.0                  | 35.5   |
| 15      | 26.0                 | 27.5  | 31.5                 | 35.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 73.0   | -                         | -     | -                       | 0.8   | NW                      | NE    | -             | -     | 1.6                  | 1.2   | 28.5                  | 35.5   |
| 16      | 24.0                 | 25.0  | 32.0                 | 36.0   | 25.0                | 30.0  | 23.5              | 26.0  | 88.0                  | 72.0   | -                         | -     | -                       | 0.8   | SE                      | NE    | -             | -     | 1.6                  | 1.2   | 26.5                  | 34.0   |
| 17      | 22.0                 | 25.0  | 32.0                 | 34.0   | 25.0                | 30.0  | 23.0              | 26.0  | 84.0                  | 72.0   | -                         | -     | 0.1                     | 0.9   | NE                      | NE    | -             | -     | 1.6                  | 0.8   | 25.5                  | 36.0   |
| 18      | 20.0                 | 23.0  | 32.0                 | 33.0   | 29.0                | 30.0  | 21.0              | 25.0  | 46.0                  | 65.0   | -                         | -     | 0.1                     | 1.1   | SE                      | NW    | -             | -     | 1.6                  | 1.6   | 24.0                  | 32.5   |
| 19      | 24.0                 | 25.0  | 31.0                 | 33.0   | 26.0                | 26.0  | 23.0              | 25.0  | 76.0                  | 92.0   | -                         | -     | -                       | 1.2   | NE                      | NW    | -             | 34.4  | 1.2                  | 0.6   | 26.0                  | 29.0   |
| 20      | 25.0                 | 26.0  | 27.0                 | 32.0   | 26.5                | 30.0  | 25.5              | 26.0  | 92.0                  | 72.0   | -                         | -     | 0.1                     | 2.1   | NW                      | NW    | 0.6           | -     | -                    | 1.2   | 26.0                  | 32.0   |
| 21      | 23.5                 | 25.0  | 27.0                 | 31.0   | 26.5                | 30.5  | 24.0              | 26.0  | 81.0                  | 72.0   | -                         | -     | 0.1                     | 0.6   | SW                      | NW    | -             | -     | 0.8                  | 0.8   | 26.5                  | 34.5   |
| 22      | 24.0                 | 26.0  | 30.0                 | 32.0   | 26.0                | 30.5  | 23.0              | 28.0  | 76.0                  | 82.0   | -                         | -     | 0.1                     | 1.1   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 26.5                  | 34.5   |
| 23      | 24.0                 | 26.0  | 30.0                 | 31.5   | 25.0                | 31.5  | 24.5              | 29.0  | 96.0                  | 82.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 27.0                  | 34.0   |
| 24      | 24.0                 | 26.0  | 31.0                 | 31.5   | 26.0                | 31.5  | 25.0              | 28.5  | 92.0                  | 78.0   | -                         | -     | -                       | 1.0   | NW                      | NW    | -             | -     | 0.4                  | 2.0   | 27.0                  | 34.0   |
| 25      | 22.0                 | 24.0  | 30.0                 | 30.5   | 25.0                | 29.0  | 23.0              | 27.5  | 84.0                  | 92.0   | -                         | -     | -                       | 0.7   | SW                      | NW    | -             | -     | 1.6                  | 2.0   | 25.0                  | 29.5   |
| 26      | 23.0                 | 28.0  | 31.0                 | 33.0   | 28.0                | 33.0  | 27.0              | 30.0  | 92.0                  | 80.0   | -                         | -     | -                       | 0.7   | NW                      | NW    | -             | -     | 2.0                  | 1.2   | 26.5                  | 33.0   |
| 27      | 22.0                 | 24.0  | 31.0                 | 32.0   | 25.0                | 29.0  | 23.5              | 28.0  | 92.0                  | 92.0   | -                         | -     | -                       | 0.4   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 25.5                  | 32.0   |
| 28      | 22.0                 | 24.0  | 32.0                 | 35.0   | 24.0                | 29.0  | 22.5              | 27.0  | 87.0                  | 85.0   | -                         | -     | 0.1                     | 0.9   | SW                      | NW    | -             | -     | 1.6                  | 1.2   | 24.5                  | 31.0   |
| 29      | 21.0                 | 24.0  | 30.0                 | 34.0   | 25.0                | 27.0  | 23.0              | 26.0  | 42.0                  | 92.0   | -                         | -     | -                       | 0.6   | NW                      | NW    | -             | -     | 1.6                  | 0.8   | 24.5                  | 31.0   |
| 30      | 21.0                 | 24.0  | 29.0                 | 30.0   | 24.0                | 27.5  | 21.5              | 27.0  | 59.0                  | 96.0   | -                         | -     | -                       | 0.6   | NW                      | NW    | -             | -     | 1.6                  | 1.6   | 22.5                  | 30.0   |
| 31      | 25.0                 |       | 29.0                 |        | 23.0                |       | 22.0              |       | 91.0                  |        | -                         |       | 0.1                     |       | NW                      |       | -             |       | 1.2                  |       | 22.5                  |        |
| Total   | 744.0                | 799.5 | 935.0                | 1006.0 | 814.0               | 916.0 | 750.5             | 830.5 | 2516.0                | 2406.0 | -                         | 2.0   | 2.1                     | 28.6  |                         |       | 77.2          | 81.8  | 36.2                 | 38.6  | 815.0                 | 1019.5 |
| Average | 24.0                 | 25.8  | 30.2                 | 32.5   | 26.3                | 29.5  | 24.2              | 26.8  | 81.2                  | 77.6   | -                         | 0.1   | 0.1                     | 0.9   |                         |       |               |       |                      |       | 26.3                  | 32.9   |
|         | 24.9                 |       | 31.3                 |        | 27.9                |       | 25.5              |       | 79.4                  |        | 0.0                       |       | 0.5                     |       |                         |       | 159.0         |       | 74.8                 |       | 29.6                  |        |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 25.5  |                      | 30.0  |                     | 27.0  |                   | 25.5  |                       | 88.0   |                           | -     |                         | 0.9   |                         | NW    |               | -     |                      | 1.6   |                       | 30.0  |
| 1       | 20.0                 | 20.0  | 34.0                 | 35.0  | 22.0                | 27.5  | 20.0              | 21.5  | 82.0                  | 56.0   | -                         | -     | -                       | 0.9   | NW                      | NW    | -             | -     | 2.8                  | 1.2   | 22.5                  | 30.0  |
| 2       | 19.0                 | 22.0  | 33.0                 | 34.0  | 22.0                | 27.5  | 20.0              | 21.5  | 82.0                  | 56.0   | -                         | -     | -                       | 1.0   | NW                      | NE    | -             | -     | 1.2                  | 1.6   | 22.5                  | 30.0  |
| 3       | 18.0                 | 22.0  | 29.0                 | 32.5  | 21.5                | 27.5  | 19.5              | 21.0  | 82.0                  | 56.0   | -                         | -     | -                       | 1.5   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 21.5                  | 30.0  |
| 4       | 19.0                 | 20.0  | 27.0                 | 33.0  | 22.0                | 26.0  | 20.0              | 20.0  | 82.0                  | 55.0   | -                         | -     | 0.2                     | 0.7   | NE                      | NE    | -             | -     | 0.8                  | 0.8   | 21.0                  | 29.0  |
| 5       | 19.5                 | 20.0  | 28.0                 | 34.0  | 22.0                | 26.5  | 19.0              | 21.0  | 74.0                  | 59.0   | -                         | -     | 0.7                     | 1.4   | NE                      | NW    | -             | -     | 1.6                  | 1.2   | 20.0                  | 30.0  |
| 6       | 18.5                 | 21.0  | 28.5                 | 34.0  | 22.0                | 28.0  | 19.5              | 22.0  | 78.0                  | 57.0   | -                         | -     | 0.7                     | 1.0   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 21.0                  | 30.0  |
| 7       | 18.0                 | 21.0  | 29.0                 | 35.0  | 21.0                | 28.0  | 20.0              | 22.0  | 91.0                  | 57.0   | -                         | -     | -                       | 0.8   | NE                      | NW    | -             | -     | 1.2                  | 1.6   | 21.5                  | 30.0  |
| 8       | 18.5                 | 20.0  | 30.0                 | 35.0  | 21.0                | 28.0  | 19.0              | 21.0  | 82.0                  | 51.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NE    | -             | -     | 1.2                  | 1.2   | 21.5                  | 30.0  |
| 9       | 18.0                 | 20.0  | 29.0                 | 33.0  | 20.5                | 26.0  | 19.0              | 20.0  | 86.0                  | 55.0   | -                         | -     | 0.1                     | 0.9   | NE                      | NE    | -             | -     | 1.6                  | 1.2   | 21.0                  | 28.5  |
| 10      | 17.5                 | 18.0  | 28.0                 | 33.0  | 19.0                | 25.5  | 17.5              | 18.5  | 86.0                  | 47.0   | -                         | -     | -                       | 1.2   | NW                      | NE    | -             | -     | 1.2                  | 1.2   | 20.0                  | 27.5  |
| 11      | 16.0                 | 18.0  | 27.0                 | 32.0  | 18.0                | 26.0  | 16.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | 0.1                     | 1.1   | NE                      | NW    | -             | -     | 1.2                  | 1.2   | 18.5                  | 27.5  |
| 12      | 15.0                 | 17.0  | 28.0                 | 32.0  | 17.0                | 25.0  | 16.0              | 19.0  | 90.0                  | 54.0   | -                         | -     | 0.1                     | 0.9   | NW                      | NE    | -             | -     | 1.2                  | 0.8   | 18.5                  | 27.0  |
| 13      | 17.0                 | 17.0  | 27.0                 | 32.0  | 19.0                | 25.0  | 17.0              | 19.5  | 81.0                  | 61.0   | -                         | -     | -                       | 1.1   | NE                      | NE    | -             | -     | 1.2                  | 1.0   | 19.5                  | 26.5  |
| 14      | 18.5                 | 20.0  | 32.0                 | 34.0  | 20.0                | 28.0  | 18.0              | 23.0  | 81.0                  | 64.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NW    | -             | -     | 1.0                  | 0.8   | 21.0                  | 28.5  |
| 15      | 21.0                 | 22.0  | 29.0                 | 30.0  | 22.0                | 25.0  | 19.5              | 21.0  | 78.0                  | 68.0   | -                         | -     | 0.1                     | 1.9   | NW                      | NW    | -             | -     | 1.6                  | 0.8   | 23.0                  | 27.5  |
| 16      | 21.0                 | 22.5  | 26.0                 | 30.0  | 21.5                | 24.0  | 21.0              | 22.0  | 95.0                  | 83.0   | -                         | -     | 0.8                     | 1.3   | NW                      | SE    | -             | -     | 0.8                  | 0.4   | 23.0                  | 27.5  |
| 17      | 22.0                 | 23.0  | 25.0                 | 27.0  | 23.0                | 24.0  | 22.0              | 22.5  | 91.0                  | 87.0   | -                         | -     | 0.1                     | 0.5   | NE                      | SE    | -             | -     | 0.8                  | -     | 24.0                  | 25.0  |
| 18      | 21.0                 | 21.0  | 24.0                 | 32.0  | 21.0                | 27.5  | 20.0              | 23.5  | 91.0                  | 70.0   | -                         | -     | 0.1                     | 0.8   | NE                      | SE    | -             | -     | -                    | 0.1   | 22.0                  | 29.5  |
| 19      | 20.5                 | 22.0  | 29.0                 | 32.0  | 22.0                | 28.0  | 21.0              | 24.0  | 91.0                  | 70.0   | -                         | -     | -                       | 0.7   | NE                      | NW    | -             | -     | 0.8                  | 0.4   | 23.0                  | 29.5  |
| 20      | 21.0                 | 23.0  | 29.0                 | 34.0  | 23.0                | 28.5  | 21.5              | 23.0  | 87.0                  | 60.0   | -                         | -     | -                       | 0.9   | NW                      | NE    | -             | -     | 1.2                  | 0.8   | 23.5                  | 30.0  |
| 21      | 18.5                 | 21.0  | 30.0                 | 35.0  | 21.0                | 27.5  | 18.0              | 20.5  | 73.0                  | 50.0   | -                         | -     | 0.1                     | 0.8   | NW                      | NE    | -             | -     | 1.6                  | 0.8   | 22.0                  | 29.5  |
| 22      | 18.5                 | 21.5  | 29.5                 | 32.0  | 21.0                | 26.0  | 18.5              | 21.0  | 78.0                  | 62.0   | -                         | -     | -                       | 0.6   | NW                      | NW    | -             | -     | 1.2                  | 0.4   | 21.5                  | 27.5  |
| 23      | 17.0                 | 19.0  | 27.0                 | 33.5  | 19.0                | 26.0  | 18.0              | 19.5  | 90.0                  | 52.0   | -                         | -     | -                       | 1.0   | NW                      | NE    | -             | -     | 1.2                  | 1.0   | 20.5                  | 28.5  |
| 24      | 16.0                 | 17.5  | 28.0                 | 32.0  | 18.0                | 25.0  | 16.0              | 18.5  | 80.0                  | 51.0   | -                         | -     | 0.1                     | 1.2   | SW                      | NE    | -             | -     | 1.2                  | 0.8   | 19.5                  | 27.0  |
| 25      | 13.0                 | 20.0  | 26.0                 | 33.5  | 20.0                | 25.0  | 17.0              | 17.5  | 73.0                  | 44.0   | -                         | -     | 0.1                     | 1.0   | NE                      | NW    | -             | -     | 1.2                  | 0.8   | 18.0                  | 26.5  |
| 26      | 13.0                 | 15.0  | 27.0                 | 33.5  | 15.0                | 25.0  | 14.0              | 18.0  | 89.0                  | 47.0   | -                         | -     | -                       | 0.8   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 17.0                  | 26.5  |
| 27      | 13.5                 | 15.0  | 27.0                 | 33.5  | 16.0                | 24.5  | 14.5              | 17.0  | 84.0                  | 43.0   | -                         | -     | 0.1                     | 0.8   | NW                      | NW    | -             | -     | 1.2                  | 1.0   | 17.0                  | 26.0  |
| 28      | 18.0                 | 18.0  | 26.5                 | 33.5  | 19.0                | 23.5  | 16.0              | 17.0  | 72.0                  | 48.0   | -                         | -     | 0.1                     | 0.8   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 17.0                  | 25.5  |
| 29      | 15.0                 | 18.0  | 25.0                 | 33.0  | 16.0                | 25.5  | 14.0              | 17.5  | 79.0                  | 41.0   | -                         | -     | -                       | 0.7   | NW                      | NW    | -             | -     | 1.2                  | 1.0   | 17.0                  | 26.5  |
| 30      | 13.0                 |       | 27.0                 |       | 16.0                |       | 14.5              |       | 84.0                  |        | -                         |       | -                       |       | NW                      |       | -             |       | 0.8                  |       | 17.5                  |       |
| Total   | 534.5                | 600.0 | 844.5                | 983.0 | 600.5               | 786.5 | 546.0             | 617.0 | 2492.0                | 1741.0 | -                         | -     | 3.7                     | 29.0  |                         |       | -             | -     | 36.4                 | 29.3  | 615.5                 | 847.0 |
| Average | 17.8                 | 20.0  | 28.2                 | 32.8  | 20.0                | 26.2  | 18.2              | 20.6  | 83.1                  | 58.0   | -                         | -     | 0.1                     | 1.0   |                         |       |               |       |                      |       | 20.5                  | 28.2  |
|         | 18.9                 |       | 30.5                 |       | 23.1                |       | 19.4              |       | 70.6                  |        | 0.0                       |       | 0.5                     |       |                         |       | 0.0           |       | 65.7                 |       | 24.4                  |       |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 17.0  |                      | 33.0  |                     | 25.0  |                   | 18.0  |                       | 47.0   |                           | -     |                         | 0.7   |                         | NW    |               | -     |                      | 1.0   |                       | 22.5  |
| 1       | 13.0                 | 17.0  | 29.0                 | 31.0  | 17.0                | 24.5  | 15.5              | 18.5  | 85.0                  | 53.0   | -                         | -     | -                       | 0.9   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 17.5                  | 26.0  |
| 2       | 13.0                 | 15.0  | 26.0                 | 31.0  | 16.0                | 23.0  | 13.5              | 18.0  | 74.0                  | 59.0   | -                         | -     | -                       | 0.8   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 17.0                  | 25.5  |
| 3       | 13.0                 | 14.0  | 25.0                 | 31.5  | 15.0                | 24.0  | 14.0              | 18.5  | 89.0                  | 57.0   | -                         | -     | -                       | 0.7   | NW                      | NW    | -             | -     | 1.0                  | 0.8   | 16.5                  | 26.0  |
| 4       | 12.5                 | 14.5  | 25.0                 | 32.0  | 15.0                | 24.5  | 14.0              | 20.0  | 89.0                  | 64.0   | -                         | -     | -                       | 0.8   | NW                      | NE    | -             | -     | 1.0                  | 0.8   | 16.0                  | 25.0  |
| 5       | 12.5                 | 14.0  | 26.0                 | 31.0  | 15.0                | 24.5  | 14.0              | 20.5  | 89.0                  | 68.0   | -                         | -     | -                       | 1.0   | NW                      | SE    | -             | -     | 0.8                  | 0.8   | 16.5                  | 25.5  |
| 6       | 13.0                 | 15.0  | 26.0                 | 32.0  | 15.0                | 26.0  | 14.5              | 21.5  | 94.0                  | 66.0   | -                         | -     | -                       | 0.7   | SE                      | NW    | -             | -     | 0.8                  | 0.8   | 17.0                  | 25.5  |
| 7       | 14.0                 | 15.5  | 26.5                 | 32.0  | 16.5                | 26.0  | 15.5              | 22.5  | 89.0                  | 73.0   | -                         | -     | -                       | 0.9   | NW                      | NE    | -             | -     | 0.8                  | 0.8   | 18.0                  | 25.0  |
| 8       | 15.0                 | 17.0  | 27.0                 | 33.0  | 17.5                | 26.5  | 15.5              | 23.0  | 80.0                  | 73.0   | -                         | -     | -                       | 1.7   | NE                      | NE    | -             | -     | 1.2                  | 1.0   | 18.5                  | 26.5  |
| 9       | 15.0                 | 17.0  | 28.0                 | 32.0  | 18.0                | 25.0  | 16.0              | 22.5  | 80.0                  | 80.0   | -                         | -     | -                       | 0.2   | NE                      | NW    | -             | -     | 1.2                  | 1.2   | 18.5                  | 26.0  |
| 10      | 12.5                 | 14.0  | 26.5                 | 31.0  | 14.0                | 23.5  | 13.0              | 21.5  | 89.0                  | 83.0   | -                         | -     | -                       | 0.8   | NW                      | NE    | -             | -     | 1.2                  | 1.2   | 16.0                  | 25.0  |
| 11      | 13.0                 | 13.5  | 26.0                 | 32.5  | 14.0                | 24.0  | 13.0              | 21.5  | 89.0                  | 79.0   | -                         | -     | -                       | 0.9   | NE                      | NE    | -             | -     | 1.0                  | 0.8   | 16.0                  | 25.0  |
| 12      | 12.5                 | 14.0  | 26.0                 | 34.0  | 15.0                | 25.0  | 14.5              | 23.0  | 94.0                  | 84.0   | -                         | -     | -                       | 0.6   | NE                      | NE    | -             | -     | 1.0                  | 0.8   | 16.0                  | 25.5  |
| 13      | 13.5                 | 15.0  | 27.5                 | 34.0  | 16.0                | 26.0  | 15.0              | 23.0  | 89.0                  | 76.0   | -                         | -     | -                       | 0.6   | NE                      | NW    | -             | -     | 1.0                  | 0.6   | 17.5                  | 26.0  |
| 14      | 15.0                 | 16.0  | 27.0                 | 34.0  | 17.0                | 26.0  | 16.0              | 23.0  | 90.0                  | 76.0   | -                         | -     | -                       | 0.8   | NE                      | NW    | -             | -     | 1.2                  | 0.8   | 18.0                  | 26.5  |
| 15      | 14.0                 | 14.0  | 28.0                 | 33.0  | 16.0                | 26.0  | 15.0              | 23.0  | 89.0                  | 76.0   | -                         | -     | -                       | 0.8   | NW                      | SE    | -             | -     | 1.2                  | 0.6   | 17.5                  | 26.5  |
| 16      | 14.0                 | 15.0  | 28.0                 | 33.0  | 16.0                | 26.0  | 14.5              | 23.0  | 84.0                  | 76.0   | -                         | -     | -                       | 0.6   | SE                      | NE    | -             | -     | 1.2                  | 0.4   | 17.5                  | 26.0  |
| 17      | 15.0                 | 16.0  | 27.5                 | 32.5  | 17.0                | 26.0  | 15.0              | 23.0  | 80.0                  | 76.0   | -                         | -     | -                       | 1.1   | NE                      | NW    | -             | -     | 1.2                  | 0.8   | 18.0                  | 26.0  |
| 18      | 13.5                 | 14.5  | 27.0                 | 30.5  | 14.5                | 22.5  | 13.5              | 19.0  | 89.0                  | 70.0   | -                         | -     | -                       | 1.3   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 17.5                  | 24.5  |
| 19      | 11.0                 | 12.0  | 24.0                 | 31.0  | 12.0                | 23.5  | 10.0              | 20.0  | 76.0                  | 71.0   | -                         | -     | -                       | 0.9   | NW                      | NW    | -             | -     | 1.0                  | 0.8   | 14.5                  | 24.0  |
| 20      | 11.0                 | 12.0  | 25.5                 | 32.0  | 12.5                | 24.0  | 11.5              | 21.0  | 88.0                  | 75.0   | -                         | -     | -                       | 0.7   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 14.5                  | 24.5  |
| 21      | 11.5                 | 12.5  | 26.0                 | 32.0  | 13.5                | 24.5  | 12.5              | 21.5  | 88.0                  | 75.0   | -                         | -     | -                       | 0.6   | NW                      | NW    | -             | -     | 1.0                  | 0.6   | 15.5                  | 24.5  |
| 22      | 12.5                 | 13.5  | 26.5                 | 31.0  | 14.0                | 25.0  | 13.0              | 21.5  | 89.0                  | 72.0   | -                         | -     | -                       | 0.8   | NE                      | NW    | -             | -     | 1.0                  | 0.4   | 16.0                  | 24.5  |
| 23      | 12.0                 | 13.0  | 26.5                 | 30.0  | 13.5                | 24.0  | 12.5              | 21.0  | 88.0                  | 75.0   | -                         | -     | -                       | 0.9   | NW                      | NW    | -             | -     | 1.0                  | 0.4   | 16.0                  | 24.0  |
| 24      | 12.0                 | 12.0  | 25.5                 | 31.0  | 12.5                | 24.0  | 12.0              | 21.0  | 94.0                  | 75.0   | -                         | -     | -                       | 0.9   | NW                      | NW    | -             | -     | 0.8                  | 0.4   | 15.5                  | 24.0  |
| 25      | 12.5                 | 13.5  | 26.0                 | 32.0  | 14.5                | 25.0  | 13.0              | 22.0  | 83.0                  | 76.0   | -                         | -     | -                       | 1.1   | NW                      | NE    | -             | -     | 1.0                  | 0.6   | 16.0                  | 25.5  |
| 26      | 11.0                 | 12.0  | 27.0                 | 30.0  | 12.5                | 23.0  | 11.5              | 20.0  | 88.0                  | 75.0   | -                         | -     | -                       | 1.5   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 15.5                  | 23.5  |
| 27      | 9.0                  | 11.0  | 24.0                 | 31.0  | 11.0                | 23.0  | 10.0              | 21.0  | 87.0                  | 83.0   | -                         | -     | 0.1                     | 1.3   | NW                      | NE    | -             | -     | 1.2                  | 1.2   | 13.5                  | 22.0  |
| 28      | 9.0                  | 11.5  | 25.0                 | 32.5  | 12.0                | 24.0  | 11.0              | 22.0  | 88.0                  | 83.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | -     | 1.0                  | 0.8   | 13.5                  | 23.0  |
| 29      | 10.0                 | 12.0  | 26.0                 | 32.5  | 12.5                | 24.5  | 11.0              | 22.5  | 82.0                  | 83.0   | -                         | -     | -                       | 0.9   | NE                      | NW    | -             | -     | 1.0                  | 0.8   | 14.5                  | 24.0  |
| 30      | 11.0                 | 13.0  | 26.0                 | 32.0  | 13.0                | 24.0  | 12.0              | 22.0  | 88.0                  | 83.0   | -                         | -     | -                       | 0.7   | NW                      | NW    | -             | -     | 1.2                  | 0.6   | 15.0                  | 24.0  |
| 31      | 11.5                 |       | 26.0                 |       | 13.5                |       | 12.5              |       | 88.0                  |        | -                         |       | -                       |       | NW                      |       | -             |       | 1.2                  |       | 15.5                  |       |
| Total   | 388.0                | 436.0 | 816.0                | 990.0 | 451.5               | 762.5 | 414.5             | 658.5 | 2689.0                | 2262.0 | -                         | -     | 0.2                     | 27.0  |                         |       | -             | -     | 33.2                 | 24.2  | 505.0                 | 772.0 |
| Average | 12.5                 | 14.1  | 26.3                 | 31.9  | 14.6                | 24.6  | 13.4              | 21.2  | 86.7                  | 73.0   | -                         | -     | 0.0                     | 0.9   |                         |       |               |       |                      |       | 16.3                  | 24.9  |
|         | 13.3                 |       | 29.1                 |       | 19.6                |       | 17.3              |       | 79.9                  |        | 0.0                       |       | 0.4                     |       |                         |       | 0.0           |       | 57.4                 |       | 20.6                  |       |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 13.0  |                      | 31.0  |                     | 24.0  |                   | 22.0  |                       | 83.0   |                           | -     |                         | 1.2   |                         | NW    |               | -     |                      | 0.8   |                       | 24.5  |
| 1       | 12.5                 | 14.0  | 26.0                 | 31.5  | 14.5                | 25.0  | 13.5              | 22.5  | 89.0                  | 76.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NW    | -             | -     | 1.0                  | 0.8   | 16.0                  | 24.5  |
| 2       | 12.5                 | 14.0  | 26.5                 | 29.5  | 13.5                | 24.0  | 12.0              | 22.0  | 88.0                  | 83.0   | -                         | -     | -                       | 0.5   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 16.0                  | 24.5  |
| 3       | 12.0                 | 13.0  | 26.0                 | 28.5  | 13.5                | 24.0  | 12.5              | 21.5  | 88.0                  | 79.0   | -                         | -     | 0.2                     | 1.3   | NW                      | NW    | -             | -     | 0.8                  | 0.6   | 15.5                  | 24.0  |
| 4       | 10.0                 | 11.0  | 25.0                 | 30.0  | 11.0                | 23.0  | 10.0              | 20.0  | 87.0                  | 75.0   | -                         | -     | 0.1                     | 1.2   | NW                      | NW    | -             | -     | 1.0                  | 0.8   | 14.0                  | 23.0  |
| 5       | 8.5                  | 10.0  | 24.0                 | 31.0  | 11.0                | 24.0  | 10.0              | 22.0  | 87.0                  | 83.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NW    | -             | -     | 1.0                  | 0.8   | 13.0                  | 23.5  |
| 6       | 10.5                 | 12.0  | 25.5                 | 32.0  | 13.0                | 24.0  | 12.0              | 21.5  | 88.0                  | 79.0   | -                         | -     | 0.1                     | 0.9   | NW                      | NE    | -             | -     | 1.0                  | 1.2   | 14.5                  | 24.0  |
| 7       | 11.5                 | 14.0  | 25.5                 | 30.5  | 14.0                | 24.0  | 12.0              | 22.5  | 78.0                  | 87.0   | -                         | -     | 0.2                     | 1.0   | NE                      | NE    | -             | -     | 0.8                  | 0.8   | 15.5                  | 24.0  |
| 8       | 11.0                 | 11.0  | 26.0                 | 31.0  | 12.5                | 23.0  | 12.0              | 21.0  | 94.0                  | 83.0   | -                         | -     | 0.1                     | 1.0   | NE                      | NE    | -             | -     | 1.2                  | 1.0   | 15.0                  | 23.5  |
| 9       | 10.0                 | 11.0  | 24.0                 | 30.0  | 11.0                | 24.0  | 10.0              | 22.0  | 87.0                  | 83.0   | -                         | -     | -                       | 1.2   | NE                      | NE    | -             | -     | 1.0                  | 1.2   | 14.5                  | 24.0  |
| 10      | 10.0                 | 11.0  | 25.0                 | 30.5  | 12.0                | 24.5  | 11.0              | 22.5  | 88.0                  | 83.0   | -                         | -     | -                       | 1.3   | NE                      | NE    | -             | -     | 0.8                  | 0.8   | 14.0                  | 24.0  |
| 11      | 12.0                 | 12.5  | 26.5                 | 31.0  | 13.0                | 25.5  | 12.0              | 23.5  | 88.0                  | 84.0   | -                         | -     | -                       | 1.2   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 15.5                  | 24.5  |
| 12      | 11.5                 | 13.0  | 25.5                 | 33.0  | 14.0                | 25.5  | 12.5              | 23.5  | 83.0                  | 84.0   | -                         | -     | -                       | 0.9   | NW                      | NW    | -             | -     | 0.8                  | 1.0   | 15.5                  | 25.0  |
| 13      | 12.0                 | 14.0  | 27.5                 | 32.0  | 15.0                | 25.0  | 14.0              | 23.0  | 89.0                  | 84.0   | -                         | -     | -                       | 0.8   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 16.5                  | 25.5  |
| 14      | 14.0                 | 15.5  | 27.0                 | 33.0  | 16.0                | 26.0  | 14.0              | 24.0  | 79.0                  | 84.0   | -                         | -     | -                       | 0.6   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 17.5                  | 26.0  |
| 15      | 14.0                 | 15.0  | 28.0                 | 33.0  | 15.5                | 27.0  | 14.5              | 25.0  | 89.0                  | 84.0   | -                         | -     | -                       | 1.4   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 17.5                  | 26.0  |
| 16      | 11.0                 | 12.5  | 28.0                 | 33.0  | 13.0                | 26.0  | 12.0              | 24.0  | 88.0                  | 84.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NW    | -             | -     | 1.2                  | 1.0   | 16.0                  | 25.5  |
| 17      | 10.5                 | 12.0  | 28.5                 | 34.0  | 13.0                | 26.0  | 12.0              | 24.0  | 88.0                  | 84.0   | -                         | -     | 0.1                     | 0.9   | NW                      | NE    | -             | -     | 1.0                  | 1.2   | 14.5                  | 25.5  |
| 18      | 12.0                 | 12.5  | 28.0                 | 33.0  | 13.0                | 25.0  | 12.0              | 23.0  | 88.0                  | 84.0   | -                         | -     | 0.2                     | 1.3   | NE                      | NE    | -             | -     | 1.2                  | 1.2   | 16.0                  | 25.0  |
| 19      | 10.0                 | 11.5  | 28.0                 | 32.0  | 12.0                | 25.0  | 11.0              | 23.0  | 88.0                  | 84.0   | -                         | -     | -                       | 1.1   | NE                      | NW    | -             | -     | 1.2                  | 1.2   | 14.5                  | 25.0  |
| 20      | 10.0                 | 11.0  | 27.0                 | 33.0  | 12.0                | 25.5  | 11.5              | 23.0  | 94.0                  | 80.0   | -                         | -     | 0.1                     | 0.9   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 15.0                  | 25.5  |
| 21      | 11.0                 | 12.5  | 27.0                 | 32.5  | 13.0                | 26.0  | 11.5              | 23.0  | 83.0                  | 76.0   | -                         | -     | 0.1                     | 1.1   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 15.5                  | 26.0  |
| 22      | 11.5                 | 13.0  | 28.0                 | 32.0  | 13.0                | 26.0  | 12.0              | 24.0  | 88.0                  | 84.0   | -                         | -     | 0.1                     | 0.9   | NE                      | NW    | -             | -     | 1.2                  | 1.0   | 16.0                  | 26.0  |
| 23      | 12.0                 | 13.5  | 28.0                 | 31.5  | 14.5                | 26.5  | 13.0              | 25.0  | 83.0                  | 88.0   | -                         | -     | 0.1                     | 0.4   | NW                      | SW    | -             | -     | 1.2                  | 1.2   | 16.0                  | 26.0  |
| 24      | 14.0                 | 17.0  | 28.5                 | 31.0  | 17.0                | 26.5  | 15.0              | 24.5  | 80.0                  | 84.0   | -                         | -     | 0.2                     | 2.3   | SW                      | SW    | -             | -     | 1.2                  | 1.2   | 18.0                  | 26.0  |
| 25      | 12.0                 | 13.0  | 28.0                 | 30.0  | 14.0                | 25.5  | 12.0              | 23.0  | 78.0                  | 80.0   | -                         | -     | -                       | 1.9   | SW                      | NW    | -             | -     | 1.2                  | 0.8   | 17.0                  | 26.5  |
| 26      | 11.0                 | 11.0  | 27.0                 | 31.5  | 12.0                | 26.0  | 11.0              | 24.0  | 88.0                  | 84.0   | -                         | -     | 0.1                     | 1.5   | NW                      | NE    | -             | -     | 1.2                  | 1.2   | 15.0                  | 26.0  |
| 27      | 10.0                 | 11.0  | 28.0                 | 31.0  | 11.0                | 25.0  | 10.0              | 20.0  | 87.0                  | 61.0   | -                         | -     | 0.1                     | 1.2   | NW                      | NE    | -             | -     | 1.2                  | 1.2   | 15.0                  | 25.0  |
| 28      | 10.0                 | 11.0  | 27.5                 | 33.0  | 11.5                | 26.5  | 10.0              | 24.0  | 81.0                  | 80.0   | -                         | -     | -                       | 1.1   | NE                      | NE    | -             | -     | 1.2                  | 1.0   | 14.0                  | 24.5  |
| 29      | 11.5                 | 12.0  | 29.0                 | 32.5  | 11.5                | 26.5  | 10.5              | 24.5  | 87.0                  | 84.0   | -                         | -     | 0.1                     | 1.3   | NE                      | NW    | -             | -     | 1.2                  | 1.0   | 15.5                  | 25.5  |
| 30      | 11.0                 | 12.5  | 29.0                 | 34.0  | 13.0                | 28.0  | 11.5              | 25.5  | 83.0                  | 81.0   | -                         | -     | -                       | 1.2   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 15.5                  | 26.0  |
| 31      | 11.0                 |       | 30.0                 |       | 13.5                |       | 13.0              |       | 94.0                  |        | -                         |       | 0.1                     |       | NW                      |       | -             |       | 1.2                  |       | 15.5                  |       |
| Total   | 350.5                | 390.0 | 837.5                | 981.5 | 406.5               | 782.5 | 370.0             | 713.0 | 2680.0                | 2532.0 | -                         | -     | 2.3                     | 34.6  |                         |       | -             | -     | 33.8                 | 31.8  | 479.5                 | 774.5 |
| Average | 11.3                 | 12.6  | 27.0                 | 31.7  | 13.1                | 25.2  | 11.9              | 23.0  | 86.5                  | 81.7   | -                         | -     | 0.1                     | 1.1   |                         |       |               |       |                      |       | 15.5                  | 25.0  |
|         | 11.9                 |       | 29.3                 |       | 19.2                |       | 17.5              |       | 84.1                  |        | 0.0                       |       | 0.6                     |       |                         |       | 0.0           |       | 65.6                 |       | 20.2                  |       |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 13.0  |                      | 35.0  |                     | 28.0  |                   | 25.0  |                       | 77.0   |                           | -     |                         | 1.7   |                         | NW    |               | -     |                      | 1.4   |                       | 27.5  |
| 1       | 12.0                 | 13.0  | 31.0                 | 35.0  | 13.5                | 27.0  | 12.0              | 25.0  | 83.0                  | 84.0   | -                         | -     | 0.1                     | 1.3   | NW                      | NE    | -             | -     | 1.4                  | 1.4   | 16.5                  | 27.5  |
| 2       | 12.0                 | 14.0  | 30.0                 | 36.0  | 14.0                | 29.0  | 12.0              | 27.0  | 78.0                  | 85.0   | -                         | -     | 0.1                     | 1.2   | NE                      | NE    | -             | -     | 1.6                  | 1.0   | 16.5                  | 27.5  |
| 3       | 13.0                 | 15.0  | 31.0                 | 36.0  | 15.0                | 30.0  | 14.0              | 27.0  | 89.0                  | 78.0   | -                         | -     | -                       | 1.4   | NE                      | NW    | -             | -     | 1.6                  | 1.8   | 17.5                  | 28.5  |
| 4       | 14.0                 | 16.0  | 33.0                 | 36.0  | 16.5                | 30.0  | 15.0              | 28.0  | 84.0                  | 85.0   | -                         | -     | 0.1                     | 2.3   | NW                      | SW    | -             | -     | 1.4                  | 1.8   | 17.0                  | 29.0  |
| 5       | 17.0                 | 17.0  | 33.0                 | 36.0  | 18.0                | 30.0  | 15.0              | 29.0  | 71.0                  | 93.0   | -                         | -     | -                       | 1.0   | SW                      | NE    | -             | -     | 2.0                  | 1.6   | 19.5                  | 30.0  |
| 6       | 16.0                 | 18.0  | 33.0                 | 36.0  | 18.5                | 30.0  | 15.0              | 28.0  | 66.0                  | 85.0   | -                         | -     | 0.1                     | 1.5   | NE                      | SW    | -             | -     | 1.2                  | 1.2   | 20.0                  | 30.0  |
| 7       | 18.0                 | 19.5  | 31.0                 | 33.0  | 20.0                | 26.0  | 17.0              | 25.0  | 73.0                  | 92.0   | -                         | -     | 0.1                     | 0.8   | SW                      | SW    | -             | -     | 2.0                  | 0.8   | 21.0                  | 26.0  |
| 8       | 17.0                 | 17.0  | 27.0                 | 33.0  | 18.0                | 29.0  | 17.0              | 27.0  | 90.0                  | 85.0   | -                         | -     | 0.1                     | 1.9   | SW                      | SW    | -             | -     | 0.4                  | 1.8   | 20.0                  | 29.5  |
| 9       | 17.0                 | 18.0  | 31.0                 | 34.0  | 19.0                | 28.0  | 16.0              | 26.0  | 72.0                  | 85.0   | -                         | 2.0   | 0.3                     | 4.0   | SW                      | NW    | -             | -     | 1.2                  | 1.2   | 20.0                  | 28.5  |
| 10      | 17.0                 | 20.0  | 30.0                 | 33.0  | 20.0                | 27.0  | 19.0              | 26.5  | 90.0                  | 96.0   | -                         | -     | 0.4                     | 1.8   | SW                      | NE    | -             | -     | 1.6                  | 1.6   | 20.5                  | 28.5  |
| 11      | 18.0                 | 19.0  | 28.0                 | 35.0  | 19.0                | 21.5  | 18.0              | 21.0  | 90.0                  | 95.0   | -                         | 2.0   | 0.3                     | 1.6   | NE                      | NW    | -             | 2.2   | 1.2                  | 1.0   | 20.0                  | 27.5  |
| 12      | 17.0                 | 20.0  | 22.0                 | 30.0  | 20.0                | 25.0  | 19.0              | 24.5  | 91.0                  | 96.0   | -                         | -     | 0.6                     | 1.9   | NE                      | NE    | 2.0           | -     | 1.2                  | -     | 20.0                  | 27.0  |
| 13      | 18.0                 | 19.0  | 26.0                 | 31.0  | 19.0                | 24.0  | 18.5              | 23.5  | 95.0                  | 96.0   | -                         | -     | 0.7                     | 1.7   | NW                      | NE    | -             | -     | 1.0                  | 0.8   | 20.5                  | 26.5  |
| 14      | 16.5                 | 20.0  | 25.0                 | 28.0  | 17.0                | 26.5  | 16.5              | 25.0  | 95.0                  | 88.0   | -                         | -     | 1.2                     | 1.5   | NE                      | NE    | 5.8           | -     | 2.2                  | 0.4   | 18.0                  | 28.0  |
| 15      | 16.0                 | 20.0  | 27.0                 | 32.0  | 17.0                | 27.5  | 16.0              | 27.0  | 90.0                  | 96.0   | -                         | -     | 0.7                     | 1.6   | NE                      | NE    | -             | -     | 1.2                  | 0.8   | 19.5                  | 29.0  |
| 16      | 14.0                 | 18.0  | 29.0                 | 32.0  | 15.0                | 28.5  | 14.0              | 28.0  | 89.0                  | 96.0   | -                         | -     | 0.1                     | 1.4   | NE                      | NE    | -             | -     | 1.2                  | 1.2   | 17.5                  | 29.0  |
| 17      | 14.0                 | 15.0  | 30.0                 | 34.0  | 16.0                | 29.0  | 15.0              | 28.0  | 89.0                  | 92.0   | -                         | -     | 0.1                     | 1.2   | NE                      | NE    | -             | -     | 1.2                  | 0.8   | 17.5                  | 30.0  |
| 18      | 16.0                 | 17.0  | 30.0                 | 34.0  | 17.5                | 29.0  | 17.0              | 28.5  | 95.0                  | 96.0   | -                         | -     | -                       | 1.4   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 19.0                  | 30.5  |
| 19      | 16.0                 | 18.0  | 32.0                 | 36.0  | 18.0                | 32.0  | 17.0              | 31.0  | 90.0                  | 93.0   | -                         | -     | 0.1                     | 1.6   | NE                      | SW    | -             | -     | 1.6                  | 1.2   | 19.5                  | 31.0  |
| 20      | 18.0                 | 19.0  | 34.0                 | 36.0  | 19.0                | 31.0  | 18.0              | 30.0  | 90.0                  | 93.0   | -                         | -     | 0.1                     | 2.0   | SW                      | NW    | -             | -     | 1.6                  | 1.6   | 21.0                  | 31.0  |
| 21      | 17.0                 | 18.0  | 33.0                 | 36.0  | 19.0                | 30.0  | 18.5              | 29.0  | 95.0                  | 93.0   | -                         | -     | 0.1                     | 1.7   | NW                      | NE    | -             | -     | 1.6                  | 2.0   | 20.5                  | 31.5  |
| 22      | 16.0                 | 17.0  | 32.0                 | 38.0  | 19.5                | 31.0  | 18.0              | 28.0  | 75.0                  | 78.0   | -                         | -     | 0.1                     | 1.2   | NE                      | NE    | -             | -     | 1.6                  | 2.0   | 19.5                  | 31.5  |
| 23      | 17.0                 | 20.0  | 34.0                 | 39.0  | 21.0                | 32.0  | 16.0              | 21.0  | 57.0                  | 34.0   | -                         | -     | 0.2                     | 1.2   | NE                      | NW    | -             | -     | 2.0                  | 2.2   | 20.0                  | 32.5  |
| 24      | 18.0                 | 20.0  | 35.0                 | 40.0  | 20.5                | 34.0  | 15.0              | 24.0  | 52.0                  | 41.0   | -                         | -     | 0.1                     | 1.4   | NW                      | NW    | -             | -     | 2.4                  | 1.6   | 21.0                  | 33.0  |
| 25      | 19.0                 | 20.0  | 37.0                 | 39.0  | 21.5                | 33.0  | 16.0              | 24.0  | 53.0                  | 45.0   | -                         | -     | 0.2                     | 1.6   | NW                      | NW    | -             | -     | 2.4                  | 1.6   | 21.5                  | 33.0  |
| 26      | 19.5                 | 21.0  | 36.0                 | 38.0  | 22.5                | 33.0  | 22.0              | 23.0  | 66.0                  | 39.0   | -                         | -     | -                       | 2.3   | NE                      | SW    | -             | -     | 2.4                  | 2.0   | 22.5                  | 32.5  |
| 27      | 18.0                 | 20.0  | 35.0                 | 38.0  | 20.0                | 32.5  | 17.0              | 21.0  | 73.0                  | 34.0   | -                         | -     | 0.1                     | 1.5   | SW                      | NW    | -             | -     | 2.0                  | 2.4   | 22.0                  | 32.5  |
| 28      | 17.0                 |       | 36.0                 |       | 21.0                |       | 17.0              |       | 58.0                  |        | -                         |       | 0.1                     |       | NW                      |       | -             |       | 2.0                  |       | 21.0                  |       |
| Total   | 458.0                | 501.5 | 871.0                | 979.0 | 515.0               | 813.5 | 460.5             | 730.0 | 2239.0                | 2250.0 | -                         | 4.0   | 6.1                     | 45.7  |                         |       | 7.8           | 2.2   | 44.8                 | 38.8  | 549.0                 | 828.5 |
| Average | 16.4                 | 17.9  | 31.1                 | 35.0  | 18.4                | 29.1  | 16.4              | 26.1  | 80.0                  | 80.4   | -                         | 0.1   | 0.2                     | 1.6   |                         |       |               |       |                      |       | 19.6                  | 29.6  |
|         | 17.1                 |       | 33.0                 |       | 23.7                |       | 21.3              |       | 80.2                  |        | 0.1                       |       | 0.9                     |       |                         |       | 10.0          |       | 83.6                 |       | 24.6                  |       |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 21.5  |                      | 38.0   |                     | 32.0   |                   | 22.0  |                       | 39.0   |                           | -     |                         | 1.2   |                         | NW    |               | -     |                      | 2.0   |                       | 33.0   |
| 1       | 18.0                 | 20.0  | 35.0                 | 40.0   | 21.0                | 34.0   | 18.0              | 23.0  | 73.0                  | 36.0   | -                         | -     | -                       | 1.3   | SW                      | SW    | -             | -     | 2.4                  | 2.6   | 21.5                  | 33.5   |
| 2       | 18.0                 | 22.0  | 37.0                 | 41.0   | 23.0                | 32.0   | 18.0              | 22.0  | 59.0                  | 39.0   | -                         | -     | 0.1                     | 1.2   | SW                      | NE    | -             | -     | 2.4                  | 2.0   | 22.0                  | 32.5   |
| 3       | 20.0                 | 23.0  | 35.0                 | 40.0   | 24.0                | 35.0   | 18.5              | 22.0  | 57.0                  | 28.5   | -                         | 2.0   | 0.2                     | 1.7   | NE                      | NW    | -             | -     | 2.6                  | 2.0   | 22.5                  | 33.5   |
| 4       | 20.0                 | 21.5  | 37.0                 | 39.0   | 23.0                | 34.0   | 18.0              | 23.5  | 59.0                  | 41.0   | -                         | -     | 0.2                     | 2.6   | NW                      | SW    | -             | -     | 2.4                  | 2.0   | 23.0                  | 32.5   |
| 5       | 21.0                 | 23.0  | 37.0                 | 37.0   | 23.0                | 31.0   | 18.5              | 21.0  | 63.0                  | 37.5   | -                         | -     | 0.3                     | 2.2   | SW                      | NE    | -             | -     | 2.4                  | 2.0   | 23.0                  | 32.0   |
| 6       | 18.0                 | 18.0  | 33.0                 | 37.0   | 22.0                | 31.0   | 18.0              | 22.0  | 66.0                  | 43.0   | -                         | -     | 0.1                     | 1.2   | NE                      | NW    | -             | -     | 2.6                  | 1.6   | 22.0                  | 31.5   |
| 7       | 19.0                 | 21.0  | 33.0                 | 38.0   | 22.0                | 32.0   | 19.0              | 23.0  | 74.0                  | 44.0   | -                         | -     | 0.2                     | 1.4   | NW                      | NE    | -             | -     | 2.0                  | 1.2   | 22.5                  | 33.0   |
| 8       | 20.0                 | 23.0  | 35.0                 | 37.0   | 24.0                | 32.0   | 18.0              | 21.0  | 53.0                  | 34.0   | 2.0                       | 2.0   | 0.1                     | 2.1   | NE                      | NE    | -             | -     | 2.6                  | 1.6   | 23.0                  | 32.0   |
| 9       | 20.0                 | 22.0  | 33.0                 | 35.0   | 22.0                | 31.0   | 17.5              | 22.0  | 62.0                  | 43.0   | -                         | -     | 0.4                     | 1.2   | NE                      | NW    | -             | -     | 2.4                  | 1.6   | 22.0                  | 31.0   |
| 10      | 18.0                 | 22.0  | 33.0                 | 39.0   | 23.5                | 34.0   | 18.0              | 22.0  | 56.0                  | 32.0   | 2.0                       | -     | 0.1                     | 1.4   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 22.0                  | 33.5   |
| 11      | 24.0                 | 25.0  | 37.0                 | 39.0   | 25.0                | 33.0   | 20.0              | 21.0  | 61.0                  | 30.5   | -                         | 2.0   | 0.2                     | 2.8   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 24.0                  | 32.0   |
| 12      | 21.0                 | 23.0  | 35.0                 | 38.0   | 24.0                | 34.0   | 19.0              | 22.0  | 60.0                  | 32.0   | -                         | 4.0   | 0.2                     | 0.4   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 23.5                  | 31.5   |
| 13      | 21.0                 | 23.0  | 35.0                 | 40.0   | 24.0                | 36.0   | 20.0              | 23.0  | 68.0                  | 30.0   | -                         | -     | 0.1                     | 2.9   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 23.0                  | 33.5   |
| 14      | 20.0                 | 24.0  | 38.0                 | 42.0   | 24.0                | 35.0   | 19.0              | 23.0  | 60.0                  | 33.0   | -                         | -     | 0.3                     | 1.3   | SW                      | NE    | -             | -     | 2.4                  | 2.0   | 22.5                  | 34.0   |
| 15      | 23.0                 | 26.0  | 38.0                 | 38.0   | 21.0                | 33.0   | 19.0              | 24.0  | 82.0                  | 45.0   | -                         | -     | 0.1                     | 2.9   | SW                      | SW    | -             | -     | 2.4                  | 2.0   | 24.0                  | 31.5   |
| 16      | 21.0                 | 23.0  | 33.0                 | 35.0   | 22.0                | 32.0   | 20.0              | 20.0  | 68.0                  | 82.0   | -                         | -     | 0.2                     | 0.5   | SW                      | SW    | -             | 2.4   | 1.6                  | 0.8   | 24.0                  | 24.5   |
| 17      | 18.0                 | 21.0  | 33.0                 | 35.0   | 21.0                | 32.0   | 20.0              | 23.0  | 91.0                  | 44.0   | -                         | -     | 0.2                     | 3.4   | SW                      | SW    | -             | -     | -                    | 2.0   | 21.0                  | 33.0   |
| 18      | 20.0                 | 23.5  | 34.0                 | 38.5   | 24.0                | 33.0   | 20.0              | 22.0  | 68.0                  | 35.0   | 2.0                       | -     | 0.1                     | 1.7   | SW                      | SW    | -             | -     | 2.4                  | 2.0   | 23.0                  | 34.0   |
| 19      | 20.0                 | 25.0  | 36.0                 | 40.0   | 25.0                | 34.0   | 19.0              | 22.0  | 54.0                  | 32.0   | -                         | -     | 0.1                     | 1.7   | SW                      | SW    | -             | -     | 2.4                  | 2.0   | 23.0                  | 34.0   |
| 20      | 19.0                 | 23.0  | 37.0                 | 40.0   | 23.0                | 31.0   | 19.0              | 22.0  | 67.0                  | 43.0   | -                         | -     | -                       | 1.3   | SW                      | NW    | -             | -     | 2.4                  | 2.2   | 22.5                  | 33.0   |
| 21      | 21.0                 | 24.0  | 37.0                 | 40.0   | 24.0                | 35.0   | 20.0              | 22.0  | 68.0                  | 28.5   | -                         | -     | 0.1                     | 2.5   | NW                      | SW    | -             | -     | 2.6                  | 2.0   | 23.0                  | 32.5   |
| 22      | 22.0                 | 25.0  | 37.0                 | 41.0   | 25.0                | 35.0   | 20.0              | 23.0  | 61.0                  | 33.0   | -                         | -     | 0.1                     | 1.1   | NE                      | NE    | -             | -     | 2.4                  | 2.0   | 24.5                  | 34.0   |
| 23      | 19.0                 | 24.5  | 33.0                 | 41.0   | 25.0                | 35.0   | 18.0              | 20.0  | 47.0                  | 20.5   | -                         | 2.0   | 0.2                     | 3.1   | NE                      | SW    | -             | -     | 2.4                  | 2.4   | 23.0                  | 34.0   |
| 24      | 20.0                 | 26.0  | 38.0                 | 41.0   | 26.0                | 36.0   | 18.0              | 24.0  | 42.0                  | 34.0   | -                         | -     | 0.2                     | 1.6   | SW                      | NW    | -             | -     | 2.4                  | 2.8   | 23.0                  | 34.5   |
| 25      | 20.0                 | 24.0  | 40.0                 | 41.0   | 25.0                | 36.0   | 19.0              | 23.0  | 54.0                  | 30.0   | -                         | -     | 0.1                     | 1.5   | NW                      | NW    | -             | -     | 2.8                  | 2.8   | 23.0                  | 35.0   |
| 26      | 20.0                 | 25.0  | 38.0                 | 40.0   | 25.0                | 35.0   | 18.0              | 23.0  | 47.0                  | 33.0   | -                         | -     | 0.1                     | 2.1   | SW                      | SW    | -             | -     | 2.8                  | 2.4   | 23.0                  | 33.0   |
| 27      | 19.0                 | 25.0  | 37.0                 | 41.0   | 25.0                | 36.0   | 18.0              | 22.0  | 47.0                  | 26.0   | -                         | -     | 0.2                     | 1.3   | SW                      | SW    | -             | -     | 2.8                  | 2.6   | 22.0                  | 35.0   |
| 28      | 19.0                 | 24.0  | 39.0                 | 41.0   | 25.0                | 35.0   | 18.0              | 23.0  | 47.0                  | 33.0   | -                         | 2.0   | 0.1                     | 1.5   | SW                      | SW    | -             | -     | 2.8                  | 2.4   | 22.5                  | 34.5   |
| 29      | 22.0                 | 27.0  | 39.0                 | 41.5   | 27.0                | 36.0   | 20.0              | 24.5  | 50.0                  | 36.0   | 2.0                       | -     | 0.1                     | 2.2   | NW                      | SW    | -             | -     | 3.2                  | 2.4   | 24.0                  | 35.0   |
| 30      | 21.0                 | 28.0  | 39.0                 | 41.0   | 26.0                | 36.0   | 19.0              | 24.0  | 49.0                  | 34.0   | -                         | -     | 0.2                     | 1.0   | SW                      | SW    | -             | -     | 2.8                  | 2.4   | 24.0                  | 34.5   |
| 31      | 21.5                 |       | 40.0                 |        | 28.0                |        | 19.0              |       | 45.0                  |        | 2.0                       |       | 0.4                     |       | NE                      |       | -             |       | 2.8                  |       | 23.5                  |        |
| Total   | 623.5                | 726.0 | 1121.0               | 1215.0 | 741.5               | 1046.0 | 583.5             | 694.0 | 1858.0                | 1131.5 | 10.0                      | 14.0  | 5.0                     | 54.3  |                         |       | -             | 2.4   | 73.2                 | 63.8  | 709.5                 | 1021.0 |
| Average | 20.1                 | 23.4  | 36.2                 | 39.2   | 23.9                | 33.7   | 18.8              | 22.4  | 59.9                  | 36.5   | 0.3                       | 0.5   | 0.2                     | 1.8   |                         |       |               |       |                      |       | 22.9                  | 32.9   |
|         | 21.8                 |       | 37.7                 |        | 28.8                |        | 20.6              |       | 48.2                  |        | 0.4                       |       | 1.0                     |       |                         |       | 2.4           |       | 137.0                |       | 27.9                  |        |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 28.0  |                      | 41.5   |                     | 34.0   |                   | 20.0  |                       | 19.0   |                           | 4.0   |                         | 0.6   |                         | SW    |               | -     |                      | 2.4   |                       | 33.5   |
| 1       | 21.0                 | 27.0  | 36.0                 | 38.0   | 25.0                | 33.0   | 22.0              | 24.0  | 76.0                  | 45.0   | -                         | -     | 2.4                     | 1.7   | NE                      | NW    | -             | -     | 3.0                  | 2.0   | 24.5                  | 32.0   |
| 2       | 20.0                 | 24.0  | 35.0                 | 39.0   | 24.0                | 34.0   | 20.0              | 23.0  | 68.0                  | 36.0   | -                         | 2.0   | 1.5                     | 1.8   | NW                      | NW    | 1.2           | -     | 2.8                  | 1.6   | 22.5                  | 34.5   |
| 3       | 21.0                 | 27.0  | 32.0                 | 40.0   | 28.0                | 34.0   | 21.0              | 23.0  | 51.0                  | 36.0   | 2.0                       | -     | 0.2                     | 2.6   | NW                      | NE    | -             | -     | 2.4                  | 2.0   | 24.0                  | 35.0   |
| 4       | 22.0                 | 30.0  | 31.0                 | 43.0   | 30.0                | 36.0   | 21.0              | 22.0  | 42.0                  | 26.0   | -                         | -     | 0.1                     | 2.9   | NE                      | NE    | -             | -     | 2.8                  | 2.8   | 25.5                  | 36.0   |
| 5       | 25.0                 | 30.0  | 39.0                 | 42.5   | 29.0                | 33.0   | 21.0              | 21.5  | 46.0                  | 32.5   | -                         | 2.0   | 0.2                     | 3.2   | NW                      | NE    | -             | -     | 3.2                  | 3.2   | 26.0                  | 35.0   |
| 6       | 20.0                 | 30.0  | 34.0                 | 43.0   | 30.0                | 32.0   | 20.0              | 23.0  | 53.0                  | 29.0   | -                         | 6.0   | 0.6                     | 2.8   | NE                      | NW    | -             | -     | 3.2                  | 3.2   | 26.5                  | 35.5   |
| 7       | 20.0                 | 29.0  | 34.0                 | 40.0   | 29.0                | 34.0   | 22.0              | 24.0  | 52.0                  | 41.0   | -                         | 4.0   | 1.1                     | 2.3   | SW                      | SW    | 1.6           | -     | 2.8                  | 2.0   | 26.5                  | 34.5   |
| 8       | 24.0                 | 27.0  | 37.0                 | 39.0   | 27.0                | 34.0   | 21.0              | 22.0  | 56.0                  | 32.0   | -                         | 4.0   | 1.0                     | 2.8   | SW                      | SW    | -             | -     | 2.8                  | 2.4   | 25.5                  | 34.0   |
| 9       | 25.0                 | 29.0  | 36.0                 | 40.0   | 28.0                | 35.0   | 22.0              | 24.0  | 57.0                  | 37.0   | -                         | -     | 0.2                     | 1.4   | SW                      | SE    | -             | -     | 2.8                  | 2.4   | 26.5                  | 34.5   |
| 10      | 25.0                 | 29.0  | 39.0                 | 41.0   | 29.0                | 35.0   | 22.0              | 24.0  | 52.0                  | 37.0   | -                         | -     | 0.3                     | 2.6   | NE                      | NE    | -             | -     | 2.8                  | 2.8   | 27.0                  | 35.0   |
| 11      | 25.0                 | 28.0  | 37.0                 | 41.0   | 27.0                | 36.0   | 21.0              | 24.0  | 56.0                  | 34.0   | -                         | -     | 0.2                     | 2.1   | NE                      | NW    | -             | -     | 3.6                  | 3.2   | 26.0                  | 36.0   |
| 12      | 20.0                 | 30.0  | 39.0                 | 39.0   | 30.0                | 35.0   | 21.0              | 24.0  | 42.0                  | 37.0   | 6.0                       | 2.0   | 0.3                     | 3.1   | SW                      | NW    | -             | -     | 3.6                  | 2.8   | 26.5                  | 35.5   |
| 13      | 25.0                 | 26.0  | 37.0                 | 40.0   | 27.0                | 31.0   | 21.0              | 23.0  | 56.0                  | 48.0   | 2.0                       | 6.0   | 0.4                     | 1.5   | NW                      | NW    | -             | -     | 3.2                  | 2.4   | 26.0                  | 34.5   |
| 14      | 22.0                 | 24.0  | 34.0                 | 41.0   | 24.0                | 28.0   | 21.0              | 23.0  | 75.0                  | 64.0   | 2.0                       | 6.0   | 1.2                     | 3.1   | NW                      | NW    | 4.0           | -     | 2.0                  | 2.4   | 25.0                  | 34.0   |
| 15      | 22.0                 | 27.0  | 33.0                 | 40.0   | 27.0                | 36.0   | 23.0              | 26.0  | 70.0                  | 43.0   | -                         | -     | 1.6                     | 2.2   | NE                      | NE    | 4.2           | -     | 1.8                  | 2.0   | 26.0                  | 36.5   |
| 16      | 24.0                 | 28.0  | 38.0                 | 41.0   | 28.0                | 36.5   | 24.0              | 27.0  | 70.0                  | 45.0   | -                         | 2.0   | 0.8                     | 1.6   | SW                      | SW    | 0.4           | -     | 2.4                  | 2.4   | 27.5                  | 37.5   |
| 17      | 26.0                 | 34.0  | 39.0                 | 44.0   | 32.5                | 37.0   | 25.0              | 25.0  | 52.0                  | 35.0   | 2.0                       | 2.0   | 0.1                     | 3.9   | NW                      | SW    | -             | -     | 2.8                  | 3.6   | 29.0                  | 37.0   |
| 18      | 26.0                 | 32.5  | 39.0                 | 44.0   | 32.0                | 35.0   | 25.0              | 25.0  | 55.0                  | 42.0   | 2.0                       | -     | 0.4                     | 3.2   | SW                      | NW    | -             | -     | 3.6                  | 3.6   | 28.5                  | 37.0   |
| 19      | 25.0                 | 30.0  | 38.0                 | 42.5   | 30.0                | 37.5   | 24.0              | 26.5  | 59.0                  | 37.0   | -                         | -     | 0.2                     | 1.8   | NW                      | SW    | -             | -     | 3.2                  | 3.2   | 27.0                  | 37.0   |
| 20      | 26.0                 | 34.0  | 40.0                 | 45.0   | 33.0                | 37.5   | 24.0              | 24.0  | 47.0                  | 31.0   | 2.0                       | 4.0   | 0.1                     | 3.8   | SW                      | SW    | -             | -     | 3.6                  | 3.6   | 28.0                  | 38.0   |
| 21      | 25.0                 | 32.0  | 40.0                 | 44.0   | 31.0                | 38.0   | 22.0              | 23.0  | 48.0                  | 20.0   | 2.0                       | 2.0   | 0.6                     | 4.1   | SW                      | SW    | -             | -     | 3.2                  | 3.6   | 28.0                  | 37.5   |
| 22      | 25.0                 | 30.0  | 40.0                 | 41.0   | 30.0                | 37.0   | 23.0              | 24.0  | 53.0                  | 31.0   | 2.0                       | 2.0   | 0.2                     | 2.1   | SW                      | NW    | -             | -     | 4.0                  | 3.6   | 28.0                  | 37.0   |
| 23      | 26.0                 | 31.0  | 39.0                 | 43.0   | 30.0                | 38.0   | 22.0              | 25.0  | 47.0                  | 32.0   | 2.0                       | -     | 0.4                     | 1.5   | NW                      | NE    | -             | -     | 3.6                  | 2.8   | 27.0                  | 38.0   |
| 24      | 25.0                 | 29.0  | 41.0                 | 42.0   | 27.0                | 36.0   | 20.0              | 23.0  | 50.0                  | 30.0   | 2.0                       | -     | 0.2                     | 1.7   | NW                      | NE    | -             | -     | 3.6                  | 2.8   | 28.0                  | 36.5   |
| 25      | 23.0                 | 33.0  | 39.0                 | 44.0   | 32.0                | 37.0   | 23.0              | 23.0  | 44.0                  | 27.0   | 2.0                       | -     | 0.5                     | 3.0   | SW                      | NW    | -             | -     | 3.6                  | 3.2   | 28.0                  | 38.0   |
| 26      | 24.0                 | 33.0  | 40.0                 | 44.0   | 32.0                | 32.0   | 21.0              | 22.0  | 39.0                  | 34.0   | -                         | -     | 0.1                     | 3.0   | SW                      | SW    | -             | -     | 4.0                  | 2.4   | 28.5                  | 36.0   |
| 27      | 23.0                 | 33.0  | 33.0                 | 44.0   | 32.0                | 38.0   | 22.0              | 25.0  | 39.0                  | 32.0   | -                         | -     | 0.9                     | 2.7   | NW                      | SW    | -             | -     | 3.2                  | 2.4   | 28.0                  | 38.0   |
| 28      | 25.5                 | 31.0  | 41.0                 | 44.0   | 31.0                | 38.0   | 23.0              | 25.5  | 48.0                  | 34.0   | -                         | 2.0   | 0.6                     | 3.6   | NE                      | SW    | -             | -     | 3.2                  | 2.4   | 29.0                  | 38.0   |
| 29      | 26.0                 | 33.0  | 41.0                 | 44.0   | 33.0                | 38.0   | 24.0              | 26.0  | 55.5                  | 28.0   | 2.0                       | -     | 1.3                     | 3.1   | NE                      | NW    | 1.0           | -     | 2.8                  | 3.6   | 29.0                  | 38.5   |
| 30      | 30.0                 |       | 41.0                 |        | 34.0                |        | 24.0              |       | 51.0                  |        | 2.0                       |       | 0.5                     |       | NW                      |       | -             |       | 3.2                  |       | 29.5                  |        |
| Total   | 716.5                | 888.5 | 1122.0               | 1254.5 | 881.5               | 1055.5 | 665.0             | 714.5 | 1609.5                | 1054.5 | 32.0                      | 50.0  | 18.2                    | 75.8  |                         |       | 12.4          | -     | 92.8                 | 82.8  | 807.0                 | 1080.0 |
| Average | 23.9                 | 29.6  | 37.4                 | 41.8   | 29.4                | 35.2   | 22.2              | 23.8  | 53.7                  | 35.2   | 1.1                       | 1.7   | 0.6                     | 2.5   |                         |       |               |       |                      |       | 26.9                  | 36.0   |
|         | 26.8                 |       | 39.6                 |        | 32.3                |        | 23.0              |       | 44.4                  |        | 1.4                       |       | 1.6                     |       |                         |       | 12.4          |       | 175.6                |       | 31.5                  |        |

## Twice Daily Climatic Data

Station Code : EMR00A4

Local River/Basin : Pairi

Station Name : Baronda

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 35.0  |                      | 46.0   |                     | 39.0   |                   | 26.0  |                       | 25.5   |                           | 2.0   |                         | 3.8   |                         | SW    |               | -     |                      | 4.0   |                       | 38.5   |
| 1       | 27.0                 | 36.0  | 42.0                 | 44.0   | 34.0                | 36.0   | 25.0              | 25.0  | 46.0                  | 38.0   | 2.0                       | 6.0   | 1.3                     | 2.1   | SW                      | SE    | -             | -     | 3.2                  | 3.6   | 29.0                  | 31.0   |
| 2       | 25.0                 | 25.5  | 39.0                 | 43.0   | 25.5                | 38.0   | 23.0              | 26.0  | 80.0                  | 36.0   | -                         | 2.0   | 1.4                     | 2.5   | SW                      | SW    | 2.4           | -     | 3.2                  | 2.8   | 21.0                  | 36.0   |
| 3       | 22.0                 | 22.0  | 40.0                 | 41.0   | 22.0                | 35.0   | 20.0              | 24.0  | 82.0                  | 37.0   | 2.0                       | -     | 1.7                     | 2.0   | SW                      | SW    | 2.0           | -     | 1.6                  | 2.4   | 24.0                  | 34.0   |
| 4       | 24.0                 | 28.0  | 37.0                 | 42.0   | 28.0                | 38.0   | 22.0              | 25.0  | 57.0                  | 32.0   | 2.0                       | 2.0   | 0.2                     | 4.0   | SE                      | NW    | -             | -     | 2.8                  | 3.2   | 24.0                  | 35.0   |
| 5       | 26.0                 | 31.0  | 40.0                 | 40.0   | 31.0                | 39.0   | 24.5              | 26.0  | 58.5                  | 33.0   | 2.0                       | -     | 0.4                     | 4.0   | NW                      | SE    | -             | -     | 3.2                  | 3.6   | 26.0                  | 37.0   |
| 6       | 28.0                 | 32.5  | 42.0                 | 43.0   | 33.0                | 39.0   | 25.0              | 26.0  | 50.0                  | 33.0   | -                         | 2.0   | 0.1                     | 4.6   | SW                      | NW    | -             | -     | 3.2                  | 4.0   | 28.0                  | 36.0   |
| 7       | 29.0                 | 33.0  | 42.0                 | 46.0   | 33.0                | 40.0   | 24.5              | 26.0  | 47.0                  | 30.0   | -                         | 2.0   | 0.3                     | 4.4   | NW                      | SW    | -             | -     | 3.6                  | 4.4   | 28.0                  | 37.0   |
| 8       | 28.0                 | 34.0  | 43.0                 | 46.0   | 34.0                | 40.0   | 25.0              | 26.0  | 46.0                  | 30.0   | 2.0                       | -     | 0.1                     | 3.3   | SW                      | SW    | -             | -     | 3.2                  | 4.0   | 28.0                  | 37.0   |
| 9       | 28.0                 | 35.5  | 43.0                 | 46.0   | 33.0                | 39.0   | 26.0              | 27.0  | 61.5                  | 33.0   | 2.0                       | -     | 0.3                     | 1.6   | SW                      | NE    | -             | -     | 3.6                  | 3.6   | 28.0                  | 37.5   |
| 10      | 26.0                 | 33.0  | 43.0                 | 45.0   | 31.0                | 40.0   | 25.0              | 26.5  | 69.0                  | 27.0   | -                         | -     | 0.8                     | 3.5   | NE                      | SW    | -             | -     | 3.6                  | 4.0   | 27.0                  | 36.0   |
| 11      | 28.0                 | 29.0  | 42.5                 | 45.0   | 34.0                | 39.0   | 22.0              | 26.0  | 56.0                  | 52.0   | 2.0                       | 2.0   | 0.3                     | 4.1   | SW                      | NE    | -             | 1.0   | 3.2                  | 2.8   | 28.0                  | 33.0   |
| 12      | 25.0                 | 30.5  | 30.0                 | 44.5   | 30.0                | 39.0   | 24.0              | 28.0  | 59.0                  | 41.0   | -                         | -     | 0.5                     | 3.1   | NW                      | SE    | -             | -     | 2.4                  | 3.2   | 25.0                  | 37.0   |
| 13      | 23.5                 | 28.0  | 42.0                 | 42.0   | 28.0                | 37.0   | 23.0              | 26.0  | 64.0                  | 39.0   | 2.0                       | -     | 1.5                     | 2.4   | SW                      | SE    | 6.6           | -     | 3.8                  | 2.8   | 25.0                  | 35.5   |
| 14      | 24.5                 | 27.0  | 40.0                 | 41.0   | 27.0                | 36.0   | 24.0              | 25.0  | 77.0                  | 38.0   | -                         | -     | 0.6                     | 2.2   | NE                      | SW    | 4.8           | -     | 2.8                  | 2.4   | 25.0                  | 35.0   |
| 15      | 23.5                 | 28.0  | 38.0                 | 40.0   | 28.0                | 37.0   | 22.0              | 25.0  | 57.0                  | 35.0   | 2.0                       | 2.0   | 1.5                     | 4.4   | SE                      | SW    | -             | -     | 2.8                  | 3.2   | 25.0                  | 35.0   |
| 16      | 28.0                 | 34.0  | 39.0                 | 42.0   | 32.0                | 35.0   | 23.5              | 24.0  | 49.0                  | 35.0   | 2.0                       | 4.0   | 0.2                     | 2.9   | NE                      | NW    | -             | -     | 2.8                  | 3.2   | 27.0                  | 34.0   |
| 17      | 26.0                 | 26.0  | 38.0                 | 44.0   | 33.0                | 35.0   | 24.0              | 25.0  | 50.0                  | 92.0   | -                         | 2.0   | 0.5                     | 2.9   | SE                      | SW    | -             | -     | 2.8                  | 4.0   | 26.0                  | 33.0   |
| 18      | 25.0                 | 31.5  | 31.0                 | 43.0   | 31.0                | 38.0   | 25.0              | 26.0  | 66.0                  | 32.0   | -                         | 2.0   | 0.9                     | 3.9   | NE                      | SW    | 2.8           | -     | 2.0                  | 3.4   | 26.0                  | 36.0   |
| 19      | 28.0                 | 34.5  | 41.0                 | 45.0   | 33.0                | 39.0   | 26.0              | 27.5  | 55.5                  | 39.0   | -                         | -     | 0.4                     | 2.0   | SE                      | SE    | -             | -     | 2.8                  | 3.2   | 26.0                  | 37.0   |
| 20      | 29.0                 | 34.0  | 43.0                 | 45.0   | 34.0                | 40.0   | 25.5              | 26.0  | 51.0                  | 28.5   | -                         | 2.0   | 0.4                     | 3.2   | SE                      | SE    | -             | -     | 3.2                  | 4.0   | 28.5                  | 37.0   |
| 21      | 29.0                 | 32.0  | 41.5                 | 43.0   | 32.0                | 37.0   | 25.0              | 27.0  | 55.0                  | 44.0   | 2.0                       | -     | 0.8                     | 3.1   | SE                      | NW    | -             | -     | 3.6                  | 2.4   | 28.0                  | 35.0   |
| 22      | 28.0                 | 34.0  | 39.0                 | 44.0   | 33.0                | 40.0   | 26.0              | 27.0  | 55.5                  | 34.0   | -                         | -     | 0.4                     | 3.4   | NW                      | NE    | -             | -     | 3.6                  | 3.2   | 28.0                  | 37.0   |
| 23      | 27.0                 | 33.0  | 43.0                 | 45.0   | 32.0                | 40.0   | 25.0              | 27.0  | 55.0                  | 34.0   | -                         | -     | 0.9                     | 3.7   | NW                      | SE    | 0.4           | -     | 2.8                  | 3.6   | 27.0                  | 37.0   |
| 24      | 29.0                 | 40.0  | 43.0                 | 44.0   | 34.0                | 40.0   | 26.0              | 26.5  | 51.0                  | 32.0   | 2.0                       | -     | 0.6                     | 3.8   | NW                      | NW    | -             | -     | 2.8                  | 4.0   | 28.0                  | 37.0   |
| 25      | 30.0                 | 35.5  | 43.0                 | 45.0   | 34.0                | 41.0   | 26.5              | 27.0  | 58.0                  | 31.0   | -                         | -     | 0.3                     | 3.5   | SE                      | SE    | -             | -     | 2.8                  | 4.4   | 30.0                  | 38.0   |
| 26      | 24.0                 | 30.0  | 42.0                 | 43.0   | 30.0                | 36.5   | 25.0              | 27.5  | 65.0                  | 49.0   | -                         | -     | 2.2                     | 2.6   | NW                      | SE    | 26.2          | -     | 5.4                  | 2.4   | 26.0                  | 37.0   |
| 27      | 27.0                 | 33.0  | 39.0                 | 42.0   | 33.0                | 38.0   | 26.0              | 26.5  | 55.5                  | 38.0   | -                         | -     | 0.4                     | 2.9   | SE                      | SE    | -             | -     | 2.8                  | 3.2   | 28.0                  | 36.0   |
| 28      | 28.0                 | 34.0  | 40.0                 | 44.0   | 34.0                | 40.0   | 26.5              | 27.0  | 56.0                  | 32.0   | -                         | 2.0   | 0.1                     | 4.3   | SE                      | NE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 37.5   |
| 29      | 30.0                 | 36.0  | 42.0                 | 45.0   | 35.0                | 41.0   | 26.0              | 26.0  | 47.0                  | 28.0   | 2.0                       | -     | 0.3                     | 3.6   | SE                      | SE    | -             | -     | 2.8                  | 4.4   | 29.0                  | 38.5   |
| 30      | 30.0                 | 36.5  | 41.0                 | 44.5   | 36.0                | 40.5   | 27.0              | 27.0  | 48.0                  | 33.0   | -                         | 2.0   | 0.4                     | 2.6   | SW                      | NW    | -             | -     | 3.6                  | 4.0   | 29.0                  | 38.5   |
| 31      | 23.5                 |       | 43.0                 |        | 26.5                |        | 24.0              |       | 64.0                  |        | -                         |       | 2.9                     |       | NW                      |       | 21.2          |       | 3.2                  |       | 25.5                  |        |
| Total   | 829.0                | 992.0 | 1252.0               | 1353.0 | 974.0               | 1192.0 | 762.0             | 810.5 | 1791.5                | 1141.0 | 26.0                      | 34.0  | 22.7                    | 100.4 |                         |       | 66.4          | 1.0   | 95.2                 | 107.4 | 832.0                 | 1119.0 |
| Average | 26.7                 | 32.0  | 40.4                 | 43.6   | 31.4                | 38.5   | 24.6              | 26.1  | 57.8                  | 36.8   | 0.8                       | 1.1   | 0.7                     | 3.2   |                         |       |               |       |                      |       | 26.8                  | 36.1   |
|         | 29.4                 |       | 42.0                 |        | 34.9                |        | 25.4              |       | 47.3                  |        | 1.0                       |       | 2.0                     |       |                         |       | 67.4          |       | 202.6                |       | 31.5                  |        |

## Twice Daily Climatic Data

Station Code : EM000U7  
Local River/Basin : Mahanadi

Station Name : Rajim  
Sub-Division : UMSD,CWC,Burla  
- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 30.5  |                      | 40.0   |                     | 37.0  |                   | 26.0  |                       | 39.0   |                           | 2.0   |                         | 6.4   |                         | SW    |               | -     |                      | 6.8   |                       | 37.0  |
| 1       | 30.0                 | 28.0  | 39.0                 | 41.5   | 33.5                | 28.0  | 26.5              | 25.0  | 55.0                  | 77.0   | 2.0                       | 4.0   | 2.1                     | 7.4   | NW                      | SW    | -             | -     | 1.6                  | 5.2   | 28.0                  | 33.0  |
| 2       | 27.0                 | 28.5  | 30.0                 | 39.5   | 28.0                | 36.5  | 26.0              | 29.0  | 85.0                  | 56.0   | 2.0                       | 2.0   | 3.6                     | -     | SE                      | NW    | 0.8           | -     | -                    | 4.8   | 25.0                  | 36.0  |
| 3       | 30.0                 | 36.5  | 32.5                 | 42.0   | 27.5                | 34.0  | 26.5              | 28.0  | 96.0                  | 62.0   | 2.0                       | 2.0   | 3.2                     | 7.2   | NW                      | NW    | -             | -     | 3.6                  | 4.8   | 28.5                  | 25.5  |
| 4       | 30.0                 | 31.0  | 39.0                 | 42.5   | 34.0                | 39.0  | 27.0              | 27.5  | 56.0                  | 41.0   | 2.0                       | 4.0   | 3.9                     | 3.0   | NW                      | NW    | -             | -     | 5.6                  | 5.6   | 28.5                  | 37.5  |
| 5       | 31.0                 | 32.0  | 41.0                 | 43.0   | 27.5                | 28.0  | 26.0              | 27.0  | 89.0                  | 40.0   | 4.0                       | 6.0   | 1.3                     | 12.1  | NW                      | SW    | -             | -     | 4.8                  | 4.8   | 28.5                  | 36.0  |
| 6       | 27.0                 | 32.5  | 40.0                 | 40.5   | 27.0                | 33.0  | 26.0              | 26.0  | 92.0                  | 56.0   | 2.0                       | 2.0   | 4.8                     | 6.6   | NW                      | NW    | 0.4           | -     | 2.4                  | 4.0   | 24.0                  | 33.5  |
| 7       | 28.5                 | 32.0  | 36.0                 | 40.0   | 27.0                | 33.0  | 25.5              | 26.0  | 88.0                  | 36.0   | 2.0                       | 2.0   | 2.3                     | 0.4   | NW                      | NW    | -             | -     | 2.4                  | 2.8   | 27.5                  | 33.0  |
| 8       | 27.0                 | 33.0  | 40.0                 | 41.0   | 30.0                | 37.0  | 26.0              | 27.0  | 72.0                  | 44.0   | 2.0                       | 4.0   | 7.8                     | 4.5   | SW                      | NE    | -             | -     | 4.0                  | 4.8   | 28.0                  | 35.0  |
| 9       | 29.0                 | 29.0  | 39.0                 | 41.0   | 30.0                | 34.0  | 27.0              | 28.0  | 78.0                  | 62.0   | -                         | 4.0   | 2.6                     | 4.1   | NW                      | NE    | -             | -     | 4.0                  | 3.2   | 28.0                  | 33.0  |
| 10      | 27.0                 | 30.0  | 40.5                 | 38.0   | 29.0                | 33.0  | 25.5              | 26.5  | 74.0                  | 53.0   | 2.0                       | 2.0   | 4.4                     | 1.0   | NW                      | NE    | 4.8           | -     | 0.8                  | 3.2   | 27.0                  | 33.0  |
| 11      | 29.5                 | 32.0  | 38.0                 | 36.0   | 29.5                | 32.0  | 25.0              | 26.5  | 69.0                  | 64.0   | 2.0                       | 2.0   | 7.3                     | 5.5   | NW                      | NW    | -             | -     | 3.2                  | 3.2   | 27.5                  | 33.0  |
| 12      | 28.0                 | 28.5  | 36.0                 | 41.0   | 29.0                | 32.0  | 26.0              | 26.5  | 78.0                  | 64.0   | 2.0                       | 2.0   | 3.0                     | 6.8   | NE                      | NE    | -             | -     | 3.8                  | 3.2   | 27.0                  | 32.0  |
| 13      | 28.0                 | 31.0  | 31.0                 | 34.0   | 30.0                | 32.0  | 26.0              | 26.5  | 72.0                  | 64.0   | 2.0                       | 2.0   | 3.8                     | 0.0   | NE                      | SW    | -             | -     | 3.2                  | 3.2   | 27.0                  | 32.0  |
| 14      | 29.0                 | 31.0  | 34.0                 | 39.0   | 31.0                | 37.0  | 26.0              | 26.5  | 68.0                  | 42.0   | 2.0                       | 2.0   | 0.0                     | 16.0  | NE                      | NW    | -             | -     | 3.2                  | 3.6   | 27.0                  | 37.0  |
| 15      | 31.0                 | 29.0  | 38.0                 | 42.0   | 33.0                | 28.0  | 27.0              | 28.0  | 62.0                  | 85.0   | 2.0                       | 4.0   | 3.7                     | 6.7   | NE                      | NE    | -             | -     | 3.2                  | 5.6   | 29.0                  | 35.0  |
| 16      | 25.0                 | 28.0  | 27.0                 | 34.0   | 28.0                | 32.0  | 25.0              | 27.0  | 77.0                  | 64.0   | 2.0                       | 2.0   | 2.7                     | 12.3  | SW                      | SW    | -             | -     | 2.8                  | 4.8   | 25.0                  | 34.5  |
| 17      | 28.0                 | 30.5  | 33.0                 | 39.5   | 30.0                | 38.5  | 25.0              | 26.0  | 65.0                  | 34.0   | 2.0                       | 2.0   | 4.9                     | 5.7   | SW                      | NW    | -             | -     | 4.0                  | 4.0   | 28.0                  | 38.0  |
| 18      | 28.0                 | 29.0  | 34.0                 | 40.5   | 32.0                | 38.0  | 26.0              | 27.0  | 61.0                  | 40.0   | 2.0                       | 4.0   | 7.5                     | 0.5   | NE                      | NW    | -             | -     | 3.6                  | 3.2   | 29.5                  | 26.0  |
| 19      | 31.0                 | 31.0  | 39.0                 | 41.0   | 31.0                | 33.0  | 26.0              | 25.0  | 66.0                  | 55.0   | 2.0                       | 4.0   | 4.4                     | 6.4   | NE                      | SW    | -             | -     | 3.2                  | 5.6   | 29.0                  | 36.5  |
| 20      | 29.0                 | 29.0  | 40.0                 | 41.0   | 31.0                | 37.0  | 26.0              | 26.0  | 66.0                  | 39.0   | 2.0                       | 2.0   | 3.9                     | 7.5   | NE                      | SW    | -             | -     | 3.2                  | 5.6   | 30.0                  | 35.5  |
| 21      | 28.0                 | 26.0  | 40.0                 | 40.5   | 30.0                | 25.5  | 26.0              | 25.0  | 72.0                  | 96.0   | 2.0                       | 2.0   | 4.4                     | 7.0   | NE                      | SW    | -             | 4.4   | 3.2                  | 0.4   | 28.0                  | 31.5  |
| 22      | 24.0                 | 24.0  | 27.0                 | 33.0   | 28.0                | 32.0  | 25.0              | 27.5  | 77.0                  | 76.0   | 2.0                       | 2.0   | 0.3                     | 12.4  | NE                      | SW    | -             | -     | 0.8                  | 2.4   | 26.0                  | 33.5  |
| 23      | 24.0                 | 27.0  | 32.0                 | 31.0   | 27.0                | 33.0  | 25.0              | 27.0  | 84.0                  | 65.0   | 2.0                       | 2.0   | 3.9                     | 5.2   | NW                      | SE    | -             | -     | 0.4                  | 4.0   | 24.5                  | 33.0  |
| 24      | 27.0                 | 25.0  | 31.0                 | 33.0   | 29.0                | 30.0  | 25.0              | 26.0  | 71.0                  | 72.0   | 2.0                       | 2.0   | 2.6                     | 5.4   | WNW                     | NW    | -             | 6.4   | 3.2                  | 0.4   | 27.0                  | 31.0  |
| 25      | 24.0                 | 24.0  | 26.0                 | 30.0   | 24.0                | 28.0  | 23.0              | 26.0  | 91.0                  | 85.0   | 2.0                       | 2.0   | 4.0                     | 5.3   | SW                      | NW    | 4.4           | -     | 0.8                  | 2.0   | 24.0                  | 30.0  |
| 26      | 27.0                 | 26.0  | 28.0                 | 30.0   | 27.0                | 27.5  | 24.0              | 26.5  | 77.0                  | 92.0   | 2.0                       | 2.0   | 1.5                     | 3.9   | NW                      | SW    | -             | 0.8   | 2.4                  | 0.4   | 27.0                  | 28.0  |
| 27      | 25.0                 | 26.5  | 26.0                 | 31.5   | 25.0                | 27.0  | 24.0              | 26.5  | 92.0                  | 96.0   | 2.0                       | 2.0   | 3.4                     | 5.6   | NW                      | SW    | -             | 1.2   | 1.2                  | -     | 24.0                  | 31.0  |
| 28      | 26.0                 | 26.0  | 27.0                 | 28.5   | 26.0                | 28.0  | 25.0              | 26.5  | 92.0                  | 88.0   | 2.0                       | 2.0   | 4.5                     | 5.7   | SW                      | SW    | -             | -     | 1.2                  | 1.2   | 25.0                  | 29.0  |
| 29      | 26.0                 | 26.0  | 28.0                 | 33.0   | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 4.0                     | 6.3   | NW                      | NW    | -             | 0.4   | -                    | 2.0   | 26.0                  | 32.0  |
| 30      | 24.0                 |       | 30.0                 |        | 27.0                |       | 26.0              |       | 92.0                  |        | 2.0                       |       | 4.0                     |       | NW                      |       | -             |       | 1.2                  |       | 26.5                  |       |
| Total   | 828.0                | 872.5 | 1022.0               | 1127.5 | 868.0               | 973.0 | 769.0             | 800.0 | 2309.0                | 1872.0 | 60.0                      | 78.0  | 109.7                   | 177.1 |                         |       | 10.4          | 13.2  | 77.0                 | 104.8 | 810.0                 | 991.0 |
| Average | 27.6                 | 29.1  | 34.1                 | 37.6   | 28.9                | 32.4  | 25.6              | 26.7  | 77.0                  | 62.4   | 2.0                       | 2.6   | 3.7                     | 5.9   |                         |       |               |       |                      |       | 27.0                  | 33.0  |
|         | 28.3                 |       | 35.8                 |        | 30.7                |       | 26.2              |       | 69.7                  |        | 2.3                       |       | 4.8                     |       |                         |       | 23.6          |       | 181.8                |       | 30.0                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 24.5  |                      | 34.0  |                     | 32.5  |                   | 27.5  |                       | 67.0   |                           | 2.0   |                         | 7.5   |                         | NW    |               | -     |                      | 2.4   |                       | 35.5  |
| 1       | 24.5                 | 25.0  | 32.5                 | 33.0  | 27.0                | 27.5  | 26.0              | 26.0  | 92.0                  | 88.0   | 2.0                       | 2.0   | 4.6                     | 4.5   | NW                      | NW    | 33.2          | -     | 0.8                  | 2.4   | 26.0                  | 31.5  |
| 2       | 25.0                 | 24.5  | 26.0                 | 27.5  | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 4.7                     | 5.6   | NW                      | SW    | 2.0           | 17.6  | 2.8                  | 0.4   | 27.0                  | 28.0  |
| 3       | 26.0                 | 25.5  | 27.0                 | 26.5  | 26.0                | 30.0  | 24.0              | 26.5  | 92.0                  | 75.0   | 2.0                       | 2.0   | 5.5                     | 6.9   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 24.0                  | 30.5  |
| 4       | 26.0                 | 26.0  | 29.0                 | 30.0  | 27.0                | 27.0  | 24.0              | 26.0  | 77.0                  | 92.0   | 2.0                       | -     | 5.5                     | 8.2   | NW                      | SW    | -             | -     | 2.0                  | 1.2   | 29.0                  | 30.0  |
| 5       | 25.0                 | 25.0  | 30.0                 | 31.0  | 26.0                | 30.0  | 24.0              | 26.5  | 84.0                  | 75.0   | -                         | 2.0   | 5.6                     | 6.6   | SW                      | SW    | -             | -     | 1.6                  | 2.4   | 27.0                  | 33.0  |
| 6       | 26.0                 | 25.0  | 30.0                 | 33.5  | 29.0                | 30.0  | 26.0              | 27.0  | 78.0                  | 78.0   | 2.0                       | 2.0   | 5.6                     | 6.6   | NW                      | NW    | -             | 2.4   | 2.0                  | 1.2   | 27.0                  | 34.0  |
| 7       | 27.0                 | 26.5  | 30.0                 | 34.0  | 29.0                | 33.0  | 26.0              | 26.0  | 78.0                  | 55.0   | 4.0                       | 2.0   | 5.4                     | 5.6   | NW                      | NW    | -             | -     | 2.0                  | 4.4   | 26.0                  | 34.5  |
| 8       | 27.5                 | 29.0  | 34.5                 | 37.0  | 31.0                | 34.0  | 27.0              | 25.0  | 72.0                  | 46.0   | 4.0                       | 2.0   | 3.8                     | 6.9   | NW                      | NW    | -             | -     | 2.6                  | 3.6   | 29.0                  | 34.0  |
| 9       | 28.5                 | 28.0  | 36.0                 | 35.0  | 28.5                | 30.0  | 25.0              | 27.0  | 74.0                  | 78.0   | 2.0                       | 2.0   | 4.4                     | 7.1   | SW                      | SW    | -             | -     | 2.8                  | 2.4   | 27.0                  | 29.0  |
| 10      | 26.0                 | 30.0  | 34.0                 | 31.0  | 27.0                | 25.5  | 24.0              | 25.0  | 77.0                  | 96.0   | 2.0                       | 2.0   | 2.5                     | 5.6   | NW                      | NW    | 10.4          | 17.6  | 1.6                  | 2.0   | 28.0                  | 27.5  |
| 11      | 25.0                 | 25.0  | 26.0                 | 26.5  | 25.0                | 25.5  | 24.0              | 25.0  | 92.0                  | 96.0   | 2.0                       | 2.0   | 2.6                     | 5.4   | NW                      | SE    | -             | 1.6   | 2.0                  | -     | 25.5                  | 26.0  |
| 12      | 24.5                 | 25.0  | 26.0                 | 30.5  | 25.5                | 27.0  | 24.0              | 25.0  | 88.0                  | 84.0   | 2.0                       | -     | 3.5                     | 4.2   | NW                      | NW    | 6.8           | -     | 2.0                  | 1.2   | 25.5                  | 27.0  |
| 13      | 25.0                 | 27.0  | 27.0                 | 29.0  | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 74.0   | -                         | -     | 3.1                     | 7.9   | SW                      | SW    | -             | -     | 2.4                  | 2.0   | 27.5                  | 27.0  |
| 14      | 26.0                 | 28.0  | 28.0                 | 30.0  | 26.5                | 28.0  | 25.0              | 26.0  | 88.0                  | 85.0   | 2.0                       | 2.0   | 4.5                     | 5.8   | NW                      | NW    | -             | 0.2   | 2.4                  | 1.4   | 27.0                  | 31.5  |
| 15      | 24.0                 | 26.0  | 29.0                 | 30.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 3.2                     | 3.8   | NW                      | NW    | 18.0          | -     | 2.4                  | 1.2   | 26.5                  | 33.0  |
| 16      | 25.0                 | 26.0  | 29.0                 | 29.5  | 26.0                | 27.5  | 25.0              | 26.0  | 92.0                  | 96.0   | -                         | 2.0   | 3.9                     | 5.7   | NW                      | NW    | 2.0           | 1.4   | 3.6                  | 1.6   | 26.5                  | 29.0  |
| 17      | 25.0                 | 26.0  | 28.0                 | 32.5  | 26.0                | 26.5  | 25.0              | 26.0  | 92.0                  | 96.0   | 2.0                       | 2.0   | 4.2                     | 6.4   | NW                      | SW    | 4.4           | 4.0   | 6.0                  | 0.8   | 24.0                  | 32.0  |
| 18      | 25.0                 | 28.0  | 28.0                 | 33.0  | 27.5                | 31.5  | 27.0              | 28.5  | 96.0                  | 79.0   | 4.0                       | 2.0   | 3.8                     | 3.2   | SW                      | NW    | 30.4          | -     | 2.4                  | 2.0   | 27.5                  | 35.0  |
| 19      | 26.0                 | 26.5  | 31.0                 | 30.5  | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 3.2                     | 2.9   | NW                      | SW    | 0.4           | 3.6   | 0.8                  | 0.4   | 28.5                  | 30.5  |
| 20      | 26.0                 | 26.0  | 30.0                 | 29.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 2.0                     | 3.8   | SW                      | SW    | -             | -     | 1.2                  | 2.4   | 27.5                  | 27.0  |
| 21      | 26.0                 | 28.0  | 28.5                 | 31.0  | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 5.5                     | 7.5   | SW                      | NW    | -             | -     | 2.0                  | 3.2   | 25.0                  | 27.0  |
| 22      | 27.0                 | 29.0  | 29.0                 | 30.0  | 27.5                | 29.0  | 25.0              | 26.0  | 88.0                  | 78.0   | 2.0                       | 2.0   | 4.6                     | 6.0   | SW                      | SW    | -             | -     | 2.4                  | 4.0   | 26.0                  | 27.0  |
| 23      | 26.5                 | 27.5  | 30.0                 | 29.0  | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | 2.0                       | 2.0   | 3.0                     | 5.8   | SW                      | SW    | -             | -     | 2.4                  | 4.8   | 27.0                  | 28.0  |
| 24      | 25.0                 | 26.0  | 29.0                 | 30.0  | 25.0                | 28.0  | 24.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 4.8                     | 5.5   | NW                      | NW    | 1.2           | -     | 2.0                  | 2.0   | 27.0                  | 28.0  |
| 25      | 25.0                 | 27.0  | 30.0                 | 31.0  | 26.5                | 29.0  | 25.0              | 26.0  | 89.0                  | 78.0   | 2.0                       | 2.0   | 4.7                     | 5.5   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 23.5                  | 28.0  |
| 26      | 25.0                 | 25.0  | 30.0                 | 30.0  | 25.0                | 25.0  | 24.0              | 24.5  | 92.0                  | 96.0   | 2.0                       | 2.0   | 4.6                     | 6.3   | SW                      | SW    | -             | 0.6   | 0.8                  | 0.6   | 23.0                  | 23.5  |
| 27      | 24.5                 | 26.0  | 30.0                 | 28.0  | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 4.9                     | 5.9   | SW                      | SW    | -             | -     | -                    | 1.2   | 23.0                  | 26.5  |
| 28      | 25.5                 | 27.0  | 30.0                 | 30.0  | 27.0                | 29.5  | 25.0              | 26.5  | 84.0                  | 79.0   | -                         | 2.0   | 6.1                     | 8.0   | NE                      | NE    | -             | -     | 1.2                  | 1.6   | 24.0                  | 28.0  |
| 29      | 26.0                 | 25.5  | 29.5                 | 32.5  | 27.0                | 30.5  | 25.5              | 26.0  | 87.0                  | 69.0   | 2.0                       | 2.0   | 4.2                     | 5.7   | SW                      | SW    | -             | -     | 0.4                  | 2.8   | 24.5                  | 30.0  |
| 30      | 26.5                 | 29.5  | 30.0                 | 33.0  | 29.0                | 29.5  | 27.0              | 25.5  | 85.0                  | 72.0   | 2.0                       | 2.0   | 3.6                     | 5.8   | NW                      | NW    | -             | 1.6   | 1.6                  | 2.4   | 25.5                  | 30.0  |
| 31      | 27.0                 |       | 30.5                 |       | 27.5                |       | 26.0              |       | 89.0                  |        | 2.0                       |       | 2.7                     |       | NW                      |       | -             |       | 0.8                  |       | 25.5                  |       |
| Total   | 797.0                | 823.0 | 917.5                | 957.5 | 833.5               | 889.0 | 779.5             | 805.5 | 2699.0                | 2509.0 | 60.0                      | 56.0  | 130.2                   | 182.4 |                         |       | 108.8         | 50.6  | 61.0                 | 62.4  | 810.0                 | 921.5 |
| Average | 25.7                 | 26.5  | 29.6                 | 30.9  | 26.9                | 28.7  | 25.1              | 26.0  | 87.1                  | 80.9   | 1.9                       | 1.8   | 4.2                     | 5.9   |                         |       |               |       |                      |       | 26.1                  | 29.7  |
|         | 26.1                 |       | 30.2                 |       | 27.8                |       | 25.6              |       | 84.0                  |        | 1.9                       |       | 5.0                     |       |                         |       | 159.4         |       | 123.4                |       | 27.9                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Aug-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 28.5  |                      | 34.0  |                     | 34.0  |                   | 27.5  |                       | 59.0   |                           | -     |                         | 5.1   |                         | NW    |               | -     |                      | 2.4   |                       | 32.0  |
| 1       | 27.5                 | 26.0  | 32.5                 | 34.0  | 28.5                | 30.0  | 27.5              | 28.0  | 85.0                  | 75.0   | 2.0                       | 2.0   | 2.5                     | 4.2   | NW                      | NW    | -             | -     | 2.0                  | 2.8   | 26.0                  | 30.5  |
| 2       | 27.0                 | 27.5  | 32.5                 | 33.0  | 28.0                | 28.5  | 26.0              | 27.0  | 85.0                  | 88.0   | 2.0                       | 2.0   | 3.1                     | 4.5   | NW                      | N     | -             | -     | 1.6                  | -     | 25.0                  | 29.0  |
| 3       | 26.5                 | 28.5  | 28.0                 | 33.0  | 29.5                | 31.5  | 26.5              | 26.5  | 78.0                  | 67.0   | 2.0                       | 2.0   | 3.8                     | 6.4   | NW                      | SW    | -             | -     | 3.2                  | 2.8   | 25.0                  | 31.0  |
| 4       | 27.0                 | 27.0  | 32.0                 | 32.0  | 27.5                | 29.0  | 26.0              | 26.0  | 88.0                  | 78.0   | 2.0                       | 2.0   | 3.6                     | 6.3   | N                       | SW    | -             | -     | 2.4                  | 1.6   | 25.0                  | 28.5  |
| 5       | 26.3                 | 25.0  | 30.0                 | 32.0  | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 3.3                     | 3.9   | SW                      | SW    | -             | -     | 1.6                  | 1.2   | 25.0                  | 27.5  |
| 6       | 25.0                 | 25.0  | 29.0                 | 30.0  | 25.0                | 28.0  | 24.0              | 27.0  | 96.0                  | 92.0   | -                         | 2.0   | 2.9                     | 4.2   | NW                      | NW    | 2.8           | -     | 0.4                  | 0.4   | 23.5                  | 28.5  |
| 7       | 25.0                 | 26.5  | 29.5                 | 30.0  | 26.0                | 28.5  | 25.0              | 26.5  | 92.0                  | 85.0   | 2.0                       | 2.0   | 3.5                     | 5.1   | NW                      | NE    | -             | -     | 3.2                  | 0.8   | 24.0                  | 28.0  |
| 8       | 26.0                 | 27.0  | 29.5                 | 30.0  | 27.5                | 28.0  | 25.0              | 26.5  | 92.0                  | 77.0   | 2.0                       | 2.0   | 3.2                     | 5.6   | NW                      | SW    | -             | -     | 1.2                  | 2.0   | 25.0                  | 28.0  |
| 9       | 24.0                 | 25.0  | 29.0                 | 29.0  | 24.5                | 28.0  | 24.0              | 27.0  | 96.0                  | 92.0   | 2.0                       | 2.0   | 4.3                     | 4.4   | SW                      | SW    | 43.2          | -     | 3.2                  | 0.2   | 23.0                  | 27.5  |
| 10      | 25.0                 | 26.0  | 28.0                 | 32.0  | 25.0                | 29.0  | 24.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 5.1                     | 4.6   | SW                      | SE    | -             | -     | 1.6                  | 1.2   | 22.5                  | 29.0  |
| 11      | 25.0                 | 28.0  | 29.5                 | 32.5  | 28.0                | 31.0  | 26.0              | 27.5  | 85.0                  | 77.0   | 2.0                       | 2.0   | 3.8                     | 5.5   | SE                      | SW    | -             | -     | 1.6                  | 3.2   | 24.5                  | 30.5  |
| 12      | 26.5                 | 26.5  | 31.0                 | 32.5  | 26.0                | 27.5  | 25.0              | 25.0  | 96.0                  | 84.0   | 2.0                       | 2.0   | 4.8                     | 5.5   | SW                      | SW    | -             | -     | 1.6                  | 2.4   | 24.5                  | 30.0  |
| 13      | 26.0                 | 26.5  | 29.0                 | 31.0  | 28.0                | 29.5  | 26.5              | 26.5  | 88.0                  | 78.0   | 2.0                       | 2.0   | 2.3                     | 5.4   | SW                      | SW    | -             | -     | 1.6                  | 2.4   | 25.0                  | 31.0  |
| 14      | 24.5                 | 26.0  | 29.0                 | 30.0  | 25.0                | 29.0  | 24.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | -     | 3.7                     | 2.9   | SW                      | NW    | -             | -     | 1.6                  | 0.6   | 23.0                  | 27.5  |
| 15      | 24.0                 | 27.0  | 29.0                 | 32.0  | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 77.0   | 2.0                       | -     | 4.1                     | 3.7   | NW                      | NE    | -             | -     | 2.4                  | 1.4   | 24.5                  | 30.0  |
| 16      | 26.0                 | 26.0  | 32.0                 | 33.0  | 27.0                | 28.5  | 26.0              | 26.0  | 92.0                  | 81.0   | 2.0                       | 2.0   | 2.9                     | 3.6   | NW                      | NW    | -             | -     | 0.8                  | 2.4   | 24.5                  | 31.5  |
| 17      | 25.0                 | 26.5  | 29.0                 | 29.0  | 27.0                | 28.0  | 23.5              | 26.0  | 96.0                  | 96.0   | 2.0                       | 2.0   | 3.1                     | 4.1   | NW                      | NW    | -             | 10.8  | 2.0                  | 1.2   | 24.5                  | 25.0  |
| 18      | 24.0                 | 25.0  | 26.0                 | 29.0  | 26.0                | 26.0  | 25.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | 2.1                     | 1.2   | NE                      | NW    | -             | -     | 0.4                  | 2.0   | 23.0                  | 23.5  |
| 19      | 24.0                 | 28.0  | 30.0                 | 32.0  | 27.5                | 28.5  | 27.0              | 27.5  | 96.0                  | 92.0   | 2.0                       | 2.0   | 1.1                     | 4.1   | NE                      | NW    | -             | 0.8   | 1.2                  | 2.0   | 25.0                  | 30.5  |
| 20      | 25.0                 | 26.0  | 29.0                 | 31.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 1.9                     | 3.2   | NW                      | NW    | -             | 2.4   | -                    | 0.8   | 24.0                  | 27.0  |
| 21      | 24.0                 | 25.0  | 28.5                 | 32.5  | 27.0                | 31.0  | 25.0              | 28.5  | 84.0                  | 78.0   | 2.0                       | 2.0   | 2.1                     | 2.1   | NE                      | NE    | -             | -     | 2.0                  | 1.8   | 25.0                  | 30.5  |
| 22      | 26.0                 | 28.0  | 30.0                 | 32.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 72.0   | 2.0                       | -     | 1.4                     | 3.6   | NW                      | NE    | -             | -     | 2.0                  | 2.4   | 30.0                  | 31.0  |
| 23      | 27.0                 | 29.5  | 32.0                 | 33.5  | 29.0                | 31.5  | 28.0              | 28.5  | 92.0                  | 76.0   | -                         | -     | 0.5                     | 3.2   | NW                      | NW    | -             | -     | 1.2                  | 1.6   | 27.0                  | 33.0  |
| 24      | 25.0                 | 25.0  | 31.0                 | 32.0  | 26.5                | 29.5  | 25.0              | 27.0  | 88.0                  | 85.0   | -                         | -     | 1.9                     | 1.9   | NW                      | NE    | 0.4           | -     | 3.6                  | 3.6   | 24.0                  | 30.0  |
| 25      | 25.5                 | 25.5  | 29.5                 | 33.5  | 27.5                | 29.0  | 27.0              | 28.0  | 96.0                  | 92.0   | -                         | -     | 1.5                     | 1.9   | NE                      | NE    | -             | 4.8   | 1.6                  | 3.2   | 25.0                  | 32.0  |
| 26      | 26.5                 | 27.0  | 30.0                 | 31.0  | 27.0                | 30.0  | 26.0              | 27.0  | 88.0                  | 78.0   | 2.0                       | 2.0   | 1.6                     | 1.3   | NE                      | NW    | -             | 4.8   | -                    | 3.6   | 26.0                  | 28.0  |
| 27      | 27.0                 | 32.0  | 35.0                 | 35.0  | 30.0                | 31.0  | 29.0              | 30.0  | 93.0                  | 86.0   | -                         | 2.0   | 1.6                     | 1.9   | NE                      | NW    | -             | 1.6   | 1.6                  | 2.0   | 27.0                  | 32.0  |
| 28      | 25.0                 | 25.0  | 35.0                 | 35.0  | 25.0                | 26.0  | 24.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 4.0   | 1.8                     | 0.9   | NW                      | NW    | 29.2          | 24.0  | 0.4                  | 1.6   | 24.0                  | 26.0  |
| 29      | 25.0                 | 25.0  | 32.0                 | 32.5  | 26.0                | 29.0  | 25.0              | 27.0  | 47.0                  | 44.0   | 2.0                       | 4.0   | 1.6                     | 6.2   | NW                      | NE    | -             | -     | 2.2                  | 4.0   | 26.0                  | 31.0  |
| 30      | 25.5                 | 29.0  | 30.0                 | 34.0  | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.0   | -                         | -     | 2.2                     | 3.3   | NE                      | NE    | -             | -     | 2.0                  | 1.2   | 26.0                  | 33.0  |
| 31      | 25.0                 |       | 31.0                 |       | 30.0                |       | 26.0              |       | 72.0                  |        | 2.0                       |       | 0.8                     |       | NW                      |       | -             |       | 1.6                  |       | 26.0                  |       |
| Total   | 790.8                | 828.5 | 937.5                | 992.0 | 840.0               | 904.5 | 795.0             | 835.5 | 2739.0                | 2511.0 | 48.0                      | 48.0  | 82.1                    | 119.8 |                         |       | 75.6          | 49.2  | 51.8                 | 58.8  | 772.5                 | 912.5 |
| Average | 25.5                 | 26.7  | 30.2                 | 32.0  | 27.1                | 29.2  | 25.6              | 27.0  | 88.4                  | 81.0   | 1.5                       | 1.5   | 2.6                     | 3.9   |                         |       |               |       |                      |       | 24.9                  | 29.4  |
|         | 26.1                 |       | 31.1                 |       | 28.1                |       | 26.3              |       | 84.7                  |        | 1.5                       |       | 3.3                     |       |                         |       | 124.8         |       | 110.6                |       | 27.2                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Sep-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 27.0  |                      | 32.0   |                     | 33.0  |                   | 27.0  |                       | 92.0   |                           | 2.0   |                         | -     |                         | NW    |               | -     |                      | 2.0   |                       | 28.5  |
| 1       | 26.0                 | 26.0  | 31.0                 | 33.0   | 29.0                | 31.0  | 28.0              | 28.0  | 92.0                  | 78.5   | 2.0                       | -     | 1.4                     | 3.9   | NW                      | NW    | -             | -     | 1.2                  | 1.6   | 26.0                  | 33.0  |
| 2       | 26.5                 | 29.5  | 31.5                 | 32.5   | 28.5                | 30.0  | 26.0              | 26.5  | 85.0                  | 72.0   | 2.0                       | 2.0   | 3.3                     | 4.3   | NW                      | NW    | -             | -     | 2.4                  | 3.6   | 26.0                  | 32.5  |
| 3       | 26.0                 | 30.0  | 30.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 26.5  | 88.0                  | 72.0   | 2.0                       | 2.0   | 2.7                     | 3.9   | SW                      | NW    | -             | -     | 1.2                  | 2.0   | 26.0                  | 30.0  |
| 4       | 26.0                 | 30.0  | 34.0                 | 34.5   | 28.0                | 32.0  | 26.0              | 27.5  | 85.0                  | 70.0   | 2.0                       | 2.0   | 2.7                     | 3.7   | NW                      | NW    | -             | -     | 3.6                  | 2.8   | 26.0                  | 34.0  |
| 5       | 27.0                 | 27.5  | 34.0                 | 35.5   | 28.0                | 32.5  | 27.0              | 27.5  | 92.0                  | 67.0   | 2.0                       | 2.0   | 2.1                     | 2.9   | NW                      | NW    | -             | -     | 1.6                  | 3.2   | 28.0                  | 35.0  |
| 6       | 27.0                 | 27.0  | 33.0                 | 35.0   | 29.0                | 29.0  | 27.0              | 27.5  | 85.0                  | 85.0   | 2.0                       | 2.0   | 1.1                     | 2.9   | NW                      | NW    | -             | -     | 2.4                  | 2.4   | 27.0                  | 33.0  |
| 7       | 25.5                 | 28.0  | 35.0                 | 35.5   | 26.0                | 32.0  | 25.0              | 29.0  | 92.0                  | 79.0   | -                         | 2.0   | 1.4                     | 2.8   | NW                      | NW    | 2.0           | -     | -                    | 2.4   | 26.0                  | 34.0  |
| 8       | 27.0                 | 30.0  | 32.5                 | 33.0   | 28.5                | 31.0  | 27.0              | 28.0  | 88.0                  | 78.5   | 2.0                       | 2.0   | 0.5                     | 4.0   | NW                      | NW    | -             | -     | 2.4                  | 2.4   | 27.0                  | 33.5  |
| 9       | 26.0                 | 26.5  | 31.5                 | 33.0   | 25.0                | 27.0  | 24.5              | 26.0  | 92.0                  | 96.0   | -                         | -     | 2.0                     | 3.1   | SE                      | SE    | -             | 49.6  | 1.6                  | 4.8   | 26.0                  | 28.0  |
| 10      | 24.5                 | 25.0  | 27.0                 | 34.5   | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.5   | 2.0                       | -     | 0.9                     | 1.7   | SW                      | NW    | 10.4          | -     | 3.6                  | 0.8   | 25.0                  | 34.0  |
| 11      | 27.0                 | 27.0  | 32.0                 | 36.0   | 26.0                | 29.0  | 24.0              | 28.0  | 92.0                  | 84.0   | -                         | -     | 0.1                     | -     | NW                      | NE    | -             | -     | 2.0                  | 2.4   | 27.0                  | 33.0  |
| 12      | 25.0                 | 25.0  | 28.0                 | 32.0   | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | 4.0                       | -     | 1.3                     | 2.2   | SW                      | NW    | 2.4           | 0.8   | 0.8                  | 1.6   | 25.5                  | 30.0  |
| 13      | 25.0                 | 25.0  | 32.0                 | 32.0   | 27.0                | 27.5  | 25.5              | 26.0  | 92.0                  | 84.0   | 2.0                       | 4.0   | 2.3                     | 3.9   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 24.5                  | 29.5  |
| 14      | 25.0                 | 26.5  | 27.5                 | 29.5   | 26.5                | 27.0  | 25.0              | 25.5  | 84.0                  | 92.5   | 2.0                       | 2.0   | 2.1                     | 2.7   | SW                      | SW    | -             | 18.0  | 1.6                  | 2.8   | 24.0                  | 27.5  |
| 15      | 25.0                 | 25.0  | 26.0                 | 33.0   | 27.5                | 29.0  | 27.0              | 27.0  | 96.5                  | 85.0   | 2.0                       | -     | 1.8                     | 2.7   | NW                      | NW    | -             | -     | 2.4                  | 1.2   | 24.5                  | 31.0  |
| 16      | 26.0                 | 29.0  | 30.0                 | 34.0   | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.5   | 2.0                       | 2.0   | 0.8                     | 2.1   | NW                      | NW    | -             | -     | 1.2                  | 2.0   | 26.0                  | 33.5  |
| 17      | 26.0                 | 28.0  | 32.0                 | 32.0   | 25.0                | 28.0  | 24.5              | 27.0  | 92.0                  | 96.0   | 2.0                       | 2.0   | 1.0                     | 2.4   | NW                      | NW    | 1.6           | 17.6  | 2.4                  | 2.4   | 26.5                  | 29.5  |
| 18      | 25.0                 | 25.0  | 32.0                 | 32.0   | 27.0                | 28.5  | 26.0              | 27.0  | 92.0                  | 88.5   | 2.0                       | 2.0   | 1.6                     | 4.6   | NW                      | SW    | -             | -     | 0.4                  | 2.0   | 24.5                  | 30.0  |
| 19      | 24.0                 | 25.0  | 29.0                 | 30.0   | 25.0                | 25.5  | 24.5              | 25.0  | 96.0                  | 92.0   | 2.0                       | -     | 3.3                     | 4.6   | NW                      | NW    | 10.0          | 3.6   | 1.6                  | 1.6   | 28.0                  | 28.0  |
| 20      | 24.0                 | 24.0  | 28.0                 | 28.5   | 24.0                | 25.0  | 23.5              | 24.0  | 96.0                  | 92.0   | 4.0                       | 4.0   | 3.7                     | 5.2   | NW                      | NW    | 26.6          | 20.8  | 1.8                  | 0.8   | 22.0                  | 28.0  |
| 21      | 25.0                 | 25.0  | 26.0                 | 31.5   | 25.0                | 28.5  | 24.0              | 27.0  | 92.0                  | 88.5   | 2.0                       | -     | 2.3                     | 4.8   | SE                      | SE    | 24.4          | -     | 0.8                  | 2.4   | 25.0                  | 30.5  |
| 22      | 24.5                 | 28.0  | 30.0                 | 31.5   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 2.7                     | 5.2   | SE                      | NW    | -             | -     | 2.0                  | 1.2   | 24.5                  | 28.0  |
| 23      | 25.0                 | 27.0  | 28.5                 | 33.0   | 26.5                | 29.0  | 25.5              | 26.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 1.2                     | 2.3   | SW                      | NW    | -             | -     | 0.8                  | 2.0   | 28.0                  | 30.0  |
| 24      | 26.0                 | 26.0  | 31.0                 | 35.0   | 28.0                | 31.0  | 27.0              | 27.0  | 92.0                  | 72.5   | 2.0                       | -     | 1.1                     | 2.3   | NW                      | NW    | -             | -     | 2.4                  | 1.6   | 25.0                  | 30.0  |
| 25      | 26.0                 | 31.0  | 32.0                 | 32.5   | 30.0                | 32.5  | 26.0              | 28.5  | 72.0                  | 73.0   | 2.0                       | -     | 0.7                     | 1.8   | NW                      | NW    | -             | -     | 2.0                  | 3.2   | 30.0                  | 34.0  |
| 26      | 26.0                 | 30.0  | 33.0                 | 36.0   | 29.5                | 31.5  | 27.5              | 28.0  | 85.0                  | 75.5   | -                         | -     | 0.8                     | 2.6   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 26.5                  | 33.0  |
| 27      | 26.0                 | 26.5  | 36.0                 | 37.0   | 29.0                | 31.0  | 28.0              | 28.5  | 92.0                  | 82.5   | -                         | -     | 0.1                     | 2.0   | NW                      | NW    | -             | -     | 2.4                  | 1.6   | 26.5                  | 33.0  |
| 28      | 26.0                 | 26.0  | 37.0                 | 37.0   | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | 2.0   | 0.6                     | 2.2   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 25.5                  | 31.0  |
| 29      | 26.0                 | 26.0  | 34.0                 | 37.0   | 27.0                | 28.5  | 26.0              | 27.0  | 92.0                  | 88.0   | 2.0                       | -     | 0.8                     | 1.6   | NW                      | NW    | 20.8          | -     | 4.4                  | 1.2   | 24.0                  | 31.5  |
| 30      | 24.0                 |       | 29.0                 |        | 26.0                |       | 25.0              |       | 92.0                  |        | -                         |       | -                       |       | NW                      |       | 10.4          |       | 2.4                  |       | 24.0                  |       |
| Total   | 768.0                | 811.5 | 932.5                | 1002.0 | 817.0               | 887.0 | 777.5             | 812.0 | 2701.5                | 2481.0 | 50.0                      | 38.0  | 46.4                    | 88.4  |                         |       | 108.6         | 110.4 | 57.0                 | 63.6  | 774.5                 | 936.5 |
| Average | 25.6                 | 27.1  | 31.1                 | 33.4   | 27.2                | 29.6  | 25.9              | 27.1  | 90.1                  | 82.7   | 1.7                       | 1.3   | 1.5                     | 2.9   |                         |       |               |       |                      |       | 25.8                  | 31.2  |
|         | 26.3                 |       | 32.2                 |        | 28.4                |       | 26.5              |       | 86.4                  |        | 1.5                       |       | 2.2                     |       |                         |       | 219.0         |       | 120.6                |       | 28.5                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 24.0  |                      | 35.0   |                     | 29.0  |                   | 28.0  |                       | 92.0   |                           | -     |                         | 0.8   |                         | NW    |               | -     |                      | 1.2   |                       | 32.0  |
| 1       | 25.0                 | 25.0  | 30.0                 | 31.0   | 26.0                | 28.0  | 24.0              | 27.0  | 92.0                  | 84.0   | -                         | 2.0   | 0.6                     | 1.3   | NW                      | NW    | -             | -     | 1.2                  | 0.4   | 26.0                  | 29.0  |
| 2       | 24.5                 | 26.5  | 26.5                 | 30.5   | 25.5                | 29.0  | 25.0              | 27.0  | 96.5                  | 85.0   | -                         | -     | 0.7                     | 1.6   | SW                      | NW    | -             | -     | 0.8                  | 2.4   | 24.5                  | 30.0  |
| 3       | 25.0                 | 28.0  | 30.5                 | 36.0   | 27.5                | 31.5  | 26.0              | 29.0  | 88.0                  | 82.5   | -                         | -     | 0.8                     | 1.8   | SW                      | NW    | -             | -     | 3.2                  | 2.8   | 26.0                  | 29.5  |
| 4       | 26.0                 | 28.0  | 31.0                 | 35.0   | 27.0                | 30.0  | 26.5              | 28.0  | 96.0                  | 85.0   | -                         | -     | 0.2                     | 1.5   | NE                      | NW    | -             | -     | 2.4                  | 3.2   | 26.0                  | 29.0  |
| 5       | 26.0                 | 28.0  | 30.0                 | 35.0   | 26.5                | 30.0  | 26.0              | 28.0  | 96.0                  | 85.0   | 4.0                       | 2.0   | 0.5                     | 3.5   | NW                      | NE    | -             | -     | 2.4                  | 2.8   | 26.5                  | 28.0  |
| 6       | 26.0                 | 26.0  | 32.0                 | 32.5   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 88.5   | 2.0                       | -     | 1.0                     | 2.7   | NW                      | NW    | -             | 1.6   | 2.0                  | 2.8   | 25.0                  | 26.0  |
| 7       | 25.0                 | 25.5  | 28.0                 | 30.5   | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 88.5   | -                         | -     | 0.7                     | 2.3   | NW                      | NW    | 10.4          | -     | 0.4                  | 1.6   | 25.5                  | 25.0  |
| 8       | 25.5                 | 25.5  | 30.0                 | 32.0   | 27.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 92.0   | 4.0                       | -     | 0.4                     | 2.4   | NW                      | NW    | -             | 7.2   | 1.2                  | 2.0   | 25.5                  | 25.0  |
| 9       | 24.0                 | 24.0  | 29.0                 | 30.0   | 26.0                | 27.0  | 24.0              | 25.0  | 77.0                  | 92.0   | 2.0                       | -     | 0.5                     | 1.1   | NW                      | NW    | 17.2          | 73.2  | 0.4                  | 0.8   | 24.5                  | 25.0  |
| 10      | 24.5                 | 25.5  | 27.0                 | 32.0   | 25.5                | 27.0  | 24.0              | 26.0  | 96.0                  | 92.0   | -                         | -     | 0.5                     | 2.1   | NW                      | NW    | -             | -     | 0.4                  | 1.6   | 24.0                  | 25.0  |
| 11      | 25.0                 | 28.0  | 27.0                 | 33.0   | 27.5                | 30.0  | 26.0              | 27.5  | 88.0                  | 82.0   | -                         | -     | 1.5                     | 1.7   | NW                      | NW    | -             | -     | 1.6                  | 2.4   | 25.0                  | 26.0  |
| 12      | 25.0                 | 25.0  | 30.0                 | 34.0   | 27.5                | 31.0  | 26.5              | 29.0  | 92.0                  | 82.0   | -                         | -     | 0.8                     | 1.8   | NW                      | NW    | -             | -     | 2.0                  | 1.2   | 26.0                  | 26.5  |
| 13      | 25.0                 | 25.0  | 32.0                 | 34.0   | 31.0                | 31.0  | 28.0              | 28.5  | 75.5                  | 82.0   | 2.0                       | -     | 2.0                     | 2.0   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 25.5                  | 26.0  |
| 14      | 26.0                 | 26.0  | 32.0                 | 34.0   | 27.5                | 31.0  | 27.0              | 27.0  | 96.0                  | 72.5   | 2.0                       | -     | 0.7                     | 1.4   | NW                      | NW    | -             | -     | 1.6                  | 2.0   | 25.0                  | 25.5  |
| 15      | 26.0                 | 26.0  | 32.0                 | 37.0   | 29.0                | 32.0  | 26.5              | 28.0  | 81.0                  | 74.0   | 2.0                       | -     | 0.4                     | 1.6   | NW                      | NW    | -             | -     | 2.0                  | 2.8   | 26.0                  | 26.5  |
| 16      | 26.0                 | 26.5  | 32.0                 | 37.5   | 29.0                | 32.5  | 26.0              | 26.5  | 78.0                  | 61.5   | -                         | -     | 0.5                     | 1.8   | NW                      | SE    | -             | -     | 2.0                  | 2.4   | 26.0                  | 28.5  |
| 17      | 22.5                 | 22.5  | 35.0                 | 38.5   | 26.5                | 31.0  | 20.0              | 27.5  | 52.5                  | 75.5   | 2.0                       | -     | 1.0                     | 1.7   | NW                      | NW    | -             | -     | 1.6                  | 2.0   | 23.5                  | 28.0  |
| 18      | 20.0                 | 24.5  | 28.0                 | 36.0   | 24.0                | 29.5  | 23.0              | 25.5  | 91.0                  | 71.5   | 2.0                       | -     | 0.5                     | 1.9   | NE                      | SE    | -             | -     | 2.0                  | 1.2   | 22.0                  | 24.0  |
| 19      | 25.0                 | 26.0  | 29.0                 | 30.0   | 26.0                | 27.0  | 25.0              | 26.5  | 92.0                  | 96.0   | 2.0                       | -     | 0.5                     | 2.4   | NW                      | NE    | -             | 20.8  | 1.2                  | 0.8   | 22.0                  | 25.0  |
| 20      | 25.0                 | 25.5  | 28.0                 | 31.0   | 27.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 92.0   | 4.0                       | 2.0   | 0.6                     | 3.7   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 25.5                  | 25.5  |
| 21      | 25.0                 | 27.0  | 28.5                 | 36.0   | 26.5                | 30.0  | 25.5              | 28.0  | 92.0                  | 85.0   | 2.0                       | -     | 1.2                     | 1.4   | NW                      | NW    | -             | -     | 1.2                  | 1.6   | 25.0                  | 26.5  |
| 22      | 25.0                 | 25.5  | 31.0                 | 33.5   | 24.5                | 30.0  | 23.5              | 28.0  | 91.5                  | 85.0   | -                         | -     | 0.8                     | 2.0   | SW                      | SW    | -             | -     | 1.2                  | 1.2   | 25.0                  | 26.5  |
| 23      | 24.5                 | 27.5  | 30.5                 | 36.0   | 26.0                | 32.0  | 25.0              | 28.5  | 92.0                  | 76.0   | -                         | -     | 0.7                     | 2.0   | NW                      | NW    | -             | -     | 1.6                  | 1.6   | 25.5                  | 27.0  |
| 24      | 24.5                 | 26.5  | 32.5                 | 35.5   | 25.0                | 30.0  | 24.0              | 25.5  | 91.0                  | 62.5   | 2.0                       | -     | 1.2                     | 2.5   | SW                      | NW    | -             | -     | 1.2                  | 1.6   | 26.0                  | 26.5  |
| 25      | 22.0                 | 26.0  | 31.0                 | 37.5   | 26.0                | 30.0  | 23.0              | 25.5  | 76.0                  | 78.0   | -                         | -     | 0.8                     | 1.5   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 25.0                  | 26.0  |
| 26      | 23.0                 | 24.0  | 31.0                 | 37.0   | 26.0                | 30.0  | 24.0              | 25.5  | 84.0                  | 68.0   | 2.0                       | -     | 0.2                     | 2.3   | NW                      | NW    | -             | -     | 1.2                  | 1.6   | 25.0                  | 26.0  |
| 27      | 22.0                 | 22.5  | 30.0                 | 35.0   | 27.0                | 30.0  | 24.0              | 25.0  | 77.0                  | 65.0   | 2.0                       | -     | 1.0                     | 1.7   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 26.0                  | 26.0  |
| 28      | 22.0                 | 22.0  | 31.0                 | 34.5   | 24.0                | 29.5  | 23.0              | 24.5  | 91.0                  | 64.0   | 2.0                       | -     | 0.6                     | 1.5   | NW                      | SW    | -             | -     | 1.2                  | 2.4   | 21.0                  | 23.0  |
| 29      | 21.5                 | 24.0  | 31.0                 | 36.0   | 23.0                | 29.0  | 22.0              | 24.0  | 91.0                  | 64.0   | 2.0                       | -     | 0.4                     | 2.5   | SE                      | NE    | -             | -     | 1.2                  | 1.6   | 21.0                  | 23.5  |
| 30      | 20.0                 | 24.0  | 30.0                 | 34.0   | 24.0                | 28.0  | 21.0              | 24.0  | 75.0                  | 74.0   | 2.0                       | -     | 0.3                     | 1.6   | NW                      | NW    | -             | -     | 0.2                  | 1.2   | 21.0                  | 23.0  |
| 31      | 20.0                 |       | 29.0                 |        | 23.0                |       | 21.0              |       | 83.0                  |        | 4.0                       |       | 0.9                     |       | NW                      |       | -             |       | 0.8                  |       | 21.0                  |       |
| Total   | 746.5                | 790.0 | 934.5                | 1059.5 | 816.0               | 918.0 | 763.5             | 828.5 | 2678.0                | 2477.0 | 46.0                      | 6.0   | 22.5                    | 60.1  |                         |       | 27.6          | 102.8 | 45.0                 | 56.8  | 761.5                 | 819.0 |
| Average | 24.1                 | 25.5  | 30.1                 | 34.2   | 26.3                | 29.6  | 24.6              | 26.7  | 86.4                  | 79.9   | 1.5                       | 0.2   | 0.7                     | 1.9   |                         |       |               |       |                      |       | 24.6                  | 26.4  |
|         | 24.8                 |       | 32.2                 |        | 28.0                |       | 25.7              |       | 83.1                  |        | 0.8                       |       | 1.3                     |       |                         |       | 130.4         |       | 101.8                |       | 25.5                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Nov-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 20.5  |                      | 34.0   |                     | 29.5  |                   | 24.0  |                       | 67.0   |                           | -     |                         | 0.2   |                         | NW    |               | -     |                      | 1.2   |                       | 23.5  |
| 1       | 20.0                 | 21.0  | 30.0                 | 34.0   | 25.0                | 29.0  | 23.0              | 24.0  | 84.0                  | 64.0   | 2.0                       | -     | 0.4                     | 1.8   | NW                      | NW    | -             | -     | 0.4                  | 1.2   | 21.0                  | 23.0  |
| 2       | 20.5                 | 20.5  | 32.0                 | 34.0   | 22.0                | 28.5  | 21.0              | 24.0  | 91.0                  | 67.5   | 2.0                       | -     | 0.2                     | 1.9   | SE                      | NW    | -             | -     | 0.4                  | 1.2   | 21.0                  | 23.5  |
| 3       | 18.0                 | 23.5  | 34.0                 | 34.5   | 23.5                | 27.5  | 21.5              | 23.0  | 83.0                  | 66.5   | -                         | -     | 0.3                     | 2.2   | NW                      | NW    | -             | -     | 0.4                  | 0.4   | 21.0                  | 22.0  |
| 4       | 18.5                 | 23.0  | 34.0                 | 34.0   | 23.5                | 24.0  | 21.5              | 21.5  | 79.5                  | 83.0   | 2.0                       | -     | 0.3                     | 2.6   | NW                      | SE    | -             | -     | 1.2                  | 1.6   | 21.0                  | 22.0  |
| 5       | 17.5                 | 24.0  | 33.5                 | 34.0   | 22.5                | 28.0  | 20.5              | 23.0  | 82.5                  | 64.0   | -                         | -     | 0.3                     | 2.7   | SE                      | SE    | -             | -     | 0.8                  | 1.2   | 20.5                  | 22.0  |
| 6       | 18.5                 | 19.0  | 30.0                 | 30.5   | 23.0                | 28.5  | 21.0              | 23.0  | 83.0                  | 60.5   | -                         | -     | 0.3                     | 2.0   | NE                      | SE    | -             | -     | 0.8                  | 1.2   | 19.0                  | 20.0  |
| 7       | 18.0                 | 23.0  | 30.0                 | 36.0   | 22.0                | 28.5  | 21.0              | 23.5  | 91.0                  | 64.0   | 2.0                       | -     | 0.1                     | 1.9   | NW                      | NE    | -             | -     | 0.8                  | 1.4   | 19.0                  | 21.5  |
| 8       | 18.0                 | 23.0  | 35.0                 | 36.0   | 22.0                | 29.0  | 20.0              | 22.0  | 82.0                  | 52.0   | 2.0                       | -     | 0.2                     | 1.8   | NW                      | NW    | -             | -     | 0.8                  | 1.2   | 19.0                  | 22.0  |
| 9       | 18.0                 | 23.0  | 34.0                 | 35.0   | 23.0                | 28.0  | 21.0              | 22.5  | 83.0                  | 60.0   | -                         | -     | 0.3                     | 2.1   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 20.0                  | 22.0  |
| 10      | 16.5                 | 17.0  | 34.0                 | 41.0   | 20.0                | 27.0  | 18.0              | 21.0  | 81.0                  | 59.0   | -                         | -     | 0.3                     | 1.9   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 20.0                  | 21.0  |
| 11      | 16.0                 | 19.5  | 33.5                 | 40.0   | 19.0                | 26.5  | 18.0              | 20.5  | 90.0                  | 59.0   | -                         | -     | 0.3                     | 2.1   | NW                      | NW    | -             | -     | 0.8                  | 1.4   | 20.0                  | 23.0  |
| 12      | 15.0                 | 17.5  | 29.5                 | 34.0   | 17.0                | 27.0  | 16.0              | 26.0  | 90.0                  | 92.0   | -                         | -     | 0.3                     | 1.9   | NE                      | NW    | -             | -     | 1.2                  | 1.2   | 17.0                  | 21.0  |
| 13      | 17.5                 | 20.0  | 29.5                 | 35.5   | 19.0                | 28.0  | 18.0              | 24.0  | 90.0                  | 70.0   | -                         | -     | 0.1                     | 2.1   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 20.0                  | 22.0  |
| 14      | 19.0                 | 20.0  | 33.5                 | 35.5   | 19.0                | 27.5  | 18.0              | 26.5  | 90.0                  | 92.0   | -                         | -     | 0.1                     | 2.2   | NW                      | SE    | -             | -     | 1.0                  | 0.8   | 19.0                  | 21.0  |
| 15      | 21.5                 | 24.0  | 28.5                 | 29.5   | 22.5                | 25.0  | 20.5              | 22.0  | 82.0                  | 76.0   | -                         | 2.0   | 0.6                     | 2.5   | SE                      | NW    | -             | -     | 1.2                  | 1.0   | 19.5                  | 20.0  |
| 16      | 22.0                 | 23.0  | 26.0                 | 29.0   | 21.0                | 23.5  | 18.0              | 23.0  | 73.0                  | 96.0   | 2.0                       | -     | 0.1                     | 2.3   | NW                      | NW    | -             | 2.4   | 1.0                  | 1.2   | 19.0                  | 20.0  |
| 17      | 22.0                 | 23.5  | 25.5                 | 28.0   | 22.0                | 23.5  | 21.0              | 23.0  | 91.0                  | 96.0   | -                         | -     | 0.7                     | 1.9   | NW                      | SE    | -             | -     | 0.4                  | 1.0   | 19.0                  | 19.0  |
| 18      | 20.5                 | 21.5  | 23.5                 | 30.0   | 20.5                | 27.5  | 20.0              | 25.0  | 95.0                  | 81.5   | -                         | -     | 0.2                     | 1.2   | NW                      | NW    | -             | -     | 1.2                  | -     | 18.0                  | 20.0  |
| 19      | 20.5                 | 25.5  | 27.5                 | 32.0   | 25.0                | 29.5  | 24.0              | 25.5  | 92.0                  | 70.5   | 2.0                       | -     | 0.2                     | 1.5   | NW                      | NW    | -             | -     | 1.2                  | 0.2   | 19.0                  | 21.0  |
| 20      | 21.5                 | 23.5  | 30.5                 | 35.0   | 23.5                | 30.0  | 21.5              | 25.5  | 83.0                  | 68.0   | -                         | -     | 0.2                     | 1.9   | NW                      | NW    | -             | -     | 0.8                  | 0.8   | 20.0                  | 29.0  |
| 21      | 20.0                 | 23.0  | 34.5                 | 35.0   | 22.0                | 29.5  | 19.0              | 24.5  | 74.0                  | 64.5   | -                         | -     | 0.2                     | 1.8   | NW                      | NW    | -             | -     | 1.2                  | 1.6   | 29.0                  | 29.0  |
| 22      | 19.0                 | 20.5  | 29.0                 | 31.5   | 24.0                | 27.5  | 22.0              | 23.0  | 83.0                  | 66.0   | -                         | -     | 0.6                     | 0.1   | NW                      | NW    | -             | -     | 1.0                  | 3.0   | 21.0                  | 25.5  |
| 23      | 18.0                 | 21.0  | 27.0                 | 34.0   | 20.0                | 28.0  | 19.0              | 23.0  | 91.0                  | 64.0   | -                         | -     | -                       | 1.7   | NW                      | NW    | -             | -     | 2.0                  | 3.0   | 16.0                  | 27.5  |
| 24      | 17.0                 | 24.0  | 28.0                 | 33.0   | 23.0                | 26.0  | 19.0              | 20.0  | 67.0                  | 56.0   | -                         | 2.0   | 0.3                     | 1.8   | NW                      | NW    | -             | -     | 2.4                  | 0.4   | 18.0                  | 27.0  |
| 25      | 14.0                 | 24.5  | 26.0                 | 33.5   | 17.0                | 26.0  | 16.0              | 20.0  | 90.0                  | 56.0   | 2.0                       | 2.0   | 0.1                     | 0.7   | NW                      | NW    | -             | -     | 0.8                  | 3.2   | 15.0                  | 27.5  |
| 26      | 16.0                 | 16.5  | 27.0                 | 33.0   | 15.0                | 28.0  | 14.0              | 21.0  | 89.0                  | 52.0   | -                         | -     | 1.9                     | 1.5   | SE                      | NW    | -             | -     | 2.4                  | 0.4   | 16.0                  | 27.0  |
| 27      | 14.0                 | 19.0  | 30.0                 | 34.5   | 18.0                | 28.5  | 16.0              | 21.5  | 80.0                  | 51.5   | 2.0                       | -     | 0.3                     | 1.9   | SW                      | NW    | -             | -     | 1.0                  | 1.0   | 15.0                  | 26.0  |
| 28      | 14.0                 | 14.0  | 30.0                 | 33.0   | 14.0                | 27.0  | 13.0              | 21.5  | 88.0                  | 59.0   | -                         | -     | 0.2                     | 2.1   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 14.0                  | 25.0  |
| 29      | 14.0                 | 20.0  | 29.0                 | 33.0   | 20.0                | 27.0  | 18.0              | 21.0  | 81.0                  | 56.0   | -                         | -     | 0.2                     | 1.4   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 16.0                  | 26.0  |
| 30      | 14.0                 |       | 29.0                 |        | 19.0                |       | 18.0              |       | 90.0                  |        | 2.0                       |       | 0.3                     |       | NW                      |       | -             |       | 1.0                  |       | 15.0                  |       |
| Total   | 539.0                | 638.0 | 903.5                | 1012.0 | 627.0               | 823.0 | 577.5             | 688.0 | 2549.0                | 2033.5 | 20.0                      | 6.0   | 9.6                     | 53.7  |                         |       | -             | 2.4   | 31.4                 | 36.8  | 567.0                 | 699.0 |
| Average | 18.0                 | 21.3  | 30.1                 | 33.7   | 20.9                | 27.4  | 19.3              | 22.9  | 85.0                  | 67.8   | 0.7                       | 0.2   | 0.3                     | 1.8   |                         |       |               |       |                      |       | 18.9                  | 23.3  |
|         | 19.6                 |       | 31.9                 |        | 24.2                |       | 21.1              |       | 76.4                  |        | 0.4                       |       | 1.1                     |       |                         |       | 2.4           |       | 68.2                 |       | 21.1                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Dec-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 29.0  |                      | 33.0   |                     | 27.0  |                   | 21.0  |                       | 56.0   |                           | -     | -                       | 1.7   |                         | NW    |               | -     |                      | 1.6   |                       | 26.0  |
| 1       | 13.5                 | 14.5  | 25.5                 | 33.0   | 17.0                | 26.0  | 16.0              | 21.0  | 90.0                  | 66.0   | -                         | -     | 0.1                     | 1.9   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 14.0                  | 26.0  |
| 2       | 14.0                 | 14.0  | 28.5                 | 31.0   | 15.5                | 25.0  | 14.0              | 20.0  | 84.0                  | 56.0   | -                         | -     | 0.2                     | 1.8   | NE                      | NE    | -             | -     | 0.8                  | 1.0   | 14.0                  | 25.0  |
| 3       | 14.0                 | 16.5  | 27.0                 | 33.5   | 16.0                | 24.5  | 15.0              | 20.0  | 89.0                  | 64.0   | -                         | -     | 0.1                     | 1.6   | NW                      | SE    | -             | -     | 1.0                  | 1.2   | 15.0                  | 24.0  |
| 4       | 13.5                 | 16.0  | 26.0                 | 32.0   | 15.0                | 25.0  | 14.0              | 20.0  | 89.0                  | 61.0   | -                         | -     | 0.1                     | 1.5   | NE                      | NW    | -             | -     | 1.0                  | 1.2   | 14.0                  | 24.0  |
| 5       | 14.0                 | 14.5  | 26.0                 | 32.0   | 18.0                | 26.0  | 16.0              | 20.0  | 80.0                  | 55.0   | -                         | -     | 0.1                     | 1.9   | NW                      | NW    | -             | -     | 1.2                  | 1.2   | 14.0                  | 24.0  |
| 6       | 14.0                 | 14.0  | 28.0                 | 32.0   | 16.0                | 27.0  | 15.0              | 22.0  | 89.0                  | 63.0   | -                         | -     | 0.2                     | 1.4   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 13.0                  | 25.0  |
| 7       | 15.0                 | 15.0  | 31.0                 | 32.0   | 18.0                | 27.0  | 16.0              | 22.0  | 80.0                  | 63.0   | -                         | -     | -                       | 1.9   | NW                      | NW    | -             | -     | 1.2                  | 2.0   | 14.0                  | 25.5  |
| 8       | 16.0                 | 16.0  | 32.0                 | 33.5   | 18.0                | 29.0  | 16.5              | 22.0  | 76.0                  | 52.0   | -                         | -     | 0.1                     | 2.9   | NE                      | NW    | -             | -     | 1.0                  | 1.2   | 15.0                  | 26.5  |
| 9       | 16.5                 | 19.5  | 30.0                 | 31.0   | 18.0                | 25.0  | 14.0              | 16.5  | 90.0                  | 38.5   | -                         | -     | 0.1                     | 3.0   | NW                      | NW    | -             | -     | 0.4                  | 0.8   | 17.0                  | 25.5  |
| 10      | 18.5                 | 18.5  | 33.5                 | 34.5   | 16.0                | 25.0  | 14.0              | 17.0  | 79.0                  | 41.0   | -                         | -     | 0.6                     | 1.1   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 13.0                  | 27.0  |
| 11      | 13.5                 | 19.0  | 32.0                 | 33.5   | 17.0                | 27.0  | 14.0              | 20.0  | 70.0                  | 50.0   | -                         | -     | 0.6                     | 1.7   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 13.5                  | 25.0  |
| 12      | 13.0                 | 16.5  | 31.5                 | 33.5   | 19.0                | 27.5  | 18.0              | 21.5  | 90.0                  | 56.0   | -                         | -     | 0.1                     | 1.6   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 13.0                  | 25.0  |
| 13      | 14.5                 | 18.0  | 30.5                 | 34.0   | 17.5                | 28.5  | 16.0              | 22.0  | 85.0                  | 54.5   | -                         | -     | 0.1                     | 1.7   | NW                      | NW    | -             | -     | 1.0                  | 1.6   | 14.5                  | 26.0  |
| 14      | 15.5                 | 18.0  | 34.0                 | 35.0   | 18.5                | 28.5  | 17.5              | 21.0  | 90.0                  | 48.0   | -                         | -     | 0.1                     | 2.0   | NW                      | NW    | -             | -     | 0.8                  | 1.6   | 15.0                  | 26.0  |
| 15      | 14.5                 | 17.5  | 31.5                 | 34.5   | 17.0                | 29.0  | 16.0              | 22.0  | 90.0                  | 52.0   | -                         | -     | -                       | 2.2   | NW                      | NW    | -             | -     | 1.0                  | 1.6   | 14.0                  | 26.0  |
| 16      | 15.5                 | 20.5  | 31.0                 | 33.5   | 19.0                | 23.0  | 17.0              | 22.0  | 81.0                  | 91.0   | -                         | -     | 0.2                     | 1.3   | SE                      | NW    | -             | -     | 1.2                  | 2.0   | 15.0                  | 25.5  |
| 17      | 16.0                 | 16.0  | 30.5                 | 33.0   | 16.5                | 27.0  | 15.0              | 21.0  | 84.0                  | 57.0   | -                         | -     | 0.1                     | 1.7   | NW                      | NW    | -             | -     | 0.8                  | 1.2   | 16.0                  | 25.0  |
| 18      | 14.0                 | 14.0  | 29.0                 | 32.5   | 16.0                | 27.0  | 15.0              | 19.5  | 89.0                  | 47.0   | -                         | -     | 0.1                     | 2.1   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 14.0                  | 25.0  |
| 19      | 11.0                 | 13.0  | 31.0                 | 33.0   | 12.0                | 26.0  | 11.0              | 19.0  | 88.0                  | 49.0   | -                         | -     | 0.1                     | 1.7   | NW                      | NW    | -             | -     | 0.8                  | 1.2   | 13.0                  | 24.0  |
| 20      | 11.0                 | 16.0  | 29.0                 | 32.0   | 14.5                | 25.5  | 13.5              | 19.0  | 89.0                  | 51.5   | -                         | -     | 0.1                     | 1.5   | NW                      | NW    | -             | -     | 0.8                  | 2.0   | 12.0                  | 23.5  |
| 21      | 12.0                 | 17.0  | 26.5                 | 31.0   | 16.0                | 25.0  | 15.0              | 19.0  | 89.0                  | 54.0   | -                         | -     | 0.1                     | 1.3   | NW                      | NW    | -             | -     | 2.0                  | 0.4   | 13.0                  | 23.0  |
| 22      | 13.0                 | 14.0  | 27.0                 | 32.0   | 14.5                | 26.0  | 14.0              | 21.0  | 94.0                  | 62.0   | -                         | -     | 0.1                     | 1.5   | NW                      | NW    | -             | -     | 1.6                  | 0.2   | 13.0                  | 23.0  |
| 23      | 13.5                 | 14.0  | 28.5                 | 32.0   | 14.0                | 26.0  | 13.0              | 21.0  | 89.0                  | 62.0   | -                         | -     | -                       | 1.6   | NW                      | NW    | -             | -     | 2.4                  | 0.4   | 13.0                  | 23.0  |
| 24      | 11.5                 | 12.0  | 29.0                 | 33.0   | 13.0                | 25.0  | 12.0              | 20.0  | 88.0                  | 61.0   | -                         | -     | 0.1                     | 1.5   | NW                      | NW    | -             | -     | 1.6                  | 0.2   | 14.5                  | 23.0  |
| 25      | 13.0                 | 14.0  | 27.5                 | 33.0   | 14.0                | 27.0  | 13.0              | 22.0  | 89.0                  | 66.0   | -                         | -     | 0.2                     | 1.5   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 14.0                  | 23.0  |
| 26      | 12.0                 | 16.0  | 29.0                 | 31.5   | 15.0                | 25.0  | 13.0              | 15.0  | 78.0                  | 28.0   | -                         | -     | 0.2                     | 1.9   | NW                      | NW    | -             | -     | 2.4                  | 0.6   | 15.0                  | 23.5  |
| 27      | 12.0                 | 12.5  | 27.0                 | 32.5   | 12.5                | 26.0  | 11.0              | 18.5  | 82.0                  | 45.0   | -                         | -     | 0.1                     | 1.9   | NW                      | NW    | -             | -     | 2.2                  | 0.4   | 13.0                  | 22.5  |
| 28      | 10.0                 | 13.0  | 28.5                 | 32.5   | 12.0                | 26.5  | 11.0              | 19.5  | 88.0                  | 49.5   | -                         | -     | 0.1                     | 1.8   | NW                      | NW    | -             | -     | 2.4                  | 0.4   | 12.0                  | 23.5  |
| 29      | 11.5                 | 13.0  | 28.5                 | 31.5   | 12.5                | 27.5  | 11.5              | 20.0  | 88.0                  | 47.5   | -                         | -     | 0.1                     | 1.6   | NW                      | NW    | -             | -     | 2.4                  | 0.6   | 11.5                  | 24.0  |
| 30      | 12.0                 | 14.5  | 30.0                 | 32.5   | 13.0                | 26.0  | 12.0              | 19.5  | 88.0                  | 52.5   | -                         | -     | 0.1                     | 1.5   | NW                      | NW    | -             | -     | 1.6                  | 0.8   | 11.0                  | 24.0  |
| 31      | 12.5                 |       | 31.0                 |        | 14.0                |       | 13.0              |       | 88.0                  |        | -                         |       | 0.1                     |       | NW                      |       | -             |       | 2.0                  |       | 12.5                  |       |
| Total   | 420.5                | 496.0 | 910.0                | 1013.5 | 485.0               | 815.5 | 442.0             | 624.0 | 2663.0                | 1699.0 | -                         | -     | 4.3                     | 54.3  |                         |       | -             | -     | 42.4                 | 34.4  | 425.5                 | 762.0 |
| Average | 13.6                 | 16.0  | 29.4                 | 32.7   | 15.6                | 26.3  | 14.3              | 20.1  | 85.9                  | 54.8   | -                         | -     | 0.1                     | 1.8   |                         |       |               |       |                      |       | 13.7                  | 24.6  |
|         | 14.8                 |       | 31.0                 |        | 21.0                |       | 17.2              |       | 70.4                  |        | 0.0                       |       | 0.9                     |       |                         |       | 0.0           |       | 76.8                 |       | 19.2                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 15.0  |                      | 31.0  |                     | 24.5  |                   | 19.0  |                       | 57.5   |                           | -     |                         | 2.0   |                         | NE    |               | -     |                      | 0.4   |                       | 23.5  |
| 1       | 13.0                 | 18.5  | 26.5                 | 32.0  | 17.0                | 25.0  | 15.0              | 19.5  | 80.0                  | 51.0   | -                         | -     | 0.2                     | 1.8   | NW                      | NW    | -             | -     | 2.4                  | 0.4   | 13.5                  | 23.5  |
| 2       | 14.0                 | 21.0  | 27.0                 | 30.0  | 13.0                | 25.0  | 12.0              | 18.0  | 88.0                  | 47.0   | -                         | -     | 0.1                     | 1.5   | NW                      | NW    | -             | -     | 2.0                  | 0.4   | 14.0                  | 23.0  |
| 3       | 12.5                 | 13.0  | 27.5                 | 29.5  | 15.0                | 23.0  | 14.0              | 17.0  | 89.0                  | 59.0   | -                         | -     | 0.3                     | 2.0   | NW                      | NW    | -             | -     | 2.0                  | 0.8   | 13.5                  | 22.0  |
| 4       | 11.5                 | 13.0  | 26.5                 | 30.0  | 13.0                | 26.0  | 12.0              | 18.0  | 88.0                  | 45.0   | -                         | -     | 0.8                     | 1.9   | NW                      | NW    | -             | -     | 2.4                  | 0.8   | 12.0                  | 18.0  |
| 5       | 11.5                 | 12.5  | 27.5                 | 31.5  | 12.0                | 25.5  | 11.0              | 19.0  | 88.0                  | 51.5   | -                         | -     | 0.2                     | 1.8   | NW                      | NW    | -             | -     | 2.6                  | 0.8   | 13.5                  | 23.0  |
| 6       | 11.5                 | 20.0  | 26.5                 | 32.0  | 14.0                | 21.0  | 13.0              | 17.5  | 88.0                  | 69.0   | -                         | -     | 0.3                     | 2.0   | NW                      | NW    | -             | -     | 2.0                  | 0.4   | 13.0                  | 22.0  |
| 7       | 12.0                 | 14.0  | 27.0                 | 29.0  | 13.0                | 23.0  | 12.0              | 17.0  | 88.0                  | 52.0   | -                         | -     | -                       | 2.1   | NW                      | NW    | -             | -     | 2.4                  | 1.6   | 13.0                  | 22.0  |
| 8       | 12.0                 | 13.5  | 26.0                 | 31.0  | 12.5                | 24.5  | 11.0              | 18.5  | 82.5                  | 53.0   | -                         | -     | 0.4                     | 1.9   | NW                      | NW    | -             | -     | 0.8                  | 1.2   | 13.0                  | 22.5  |
| 9       | 11.5                 | 15.5  | 21.0                 | 29.5  | 14.0                | 24.5  | 13.0              | 17.5  | 89.0                  | 46.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NW    | -             | -     | 0.2                  | 1.4   | 13.0                  | 23.0  |
| 10      | 11.0                 | 12.5  | 21.5                 | 29.5  | 13.0                | 25.0  | 12.0              | 16.0  | 88.0                  | 35.0   | -                         | -     | -                       | 1.9   | NW                      | NW    | -             | -     | 2.4                  | 1.2   | 13.0                  | 23.5  |
| 11      | 12.0                 | 12.5  | 30.0                 | 30.0  | 13.0                | 26.5  | 12.0              | 17.5  | 88.0                  | 36.0   | -                         | -     | 0.2                     | 2.2   | NW                      | NW    | -             | -     | 0.8                  | 1.4   | 12.0                  | 24.0  |
| 12      | 12.0                 | 13.5  | 31.5                 | 32.0  | 13.0                | 27.0  | 12.0              | 18.0  | 88.0                  | 38.0   | -                         | -     | 0.2                     | 1.9   | NW                      | NW    | -             | -     | 2.4                  | 1.2   | 13.5                  | 25.0  |
| 13      | 13.5                 | 14.0  | 29.5                 | 32.5  | 16.5                | 24.5  | 14.5              | 19.5  | 79.0                  | 60.0   | -                         | -     | -                       | 1.8   | NW                      | NW    | -             | -     | 2.4                  | 0.8   | 14.0                  | 25.0  |
| 14      | 13.5                 | 16.0  | 28.5                 | 33.0  | 15.5                | 26.0  | 14.0              | 21.0  | 84.0                  | 62.0   | -                         | -     | 0.3                     | 1.2   | NW                      | NW    | -             | -     | 1.2                  | 0.4   | 14.0                  | 25.0  |
| 15      | 14.5                 | 16.0  | 29.5                 | 31.0  | 14.5                | 26.0  | 14.0              | 19.0  | 94.0                  | 49.0   | -                         | -     | 0.1                     | 3.3   | NW                      | NW    | -             | -     | 2.0                  | 1.0   | 13.0                  | 25.0  |
| 16      | 12.0                 | 16.0  | 28.5                 | 31.5  | 14.5                | 27.0  | 14.0              | 17.5  | 94.0                  | 35.0   | -                         | -     | 0.3                     | 1.8   | NW                      | NW    | -             | -     | 2.0                  | 1.6   | 13.0                  | 25.5  |
| 17      | 11.0                 | 12.0  | 30.0                 | 33.5  | 12.5                | 28.5  | 12.0              | 19.0  | 94.0                  | 36.0   | -                         | -     | 0.3                     | 2.2   | NW                      | NW    | -             | -     | 2.0                  | 1.6   | 13.5                  | 26.0  |
| 18      | 12.5                 | 14.0  | 31.5                 | 32.5  | 13.0                | 27.0  | 12.0              | 18.0  | 88.0                  | 38.0   | -                         | -     | 0.4                     | 2.1   | NW                      | NW    | -             | -     | 2.0                  | 1.2   | 13.0                  | 25.5  |
| 19      | 12.0                 | 16.0  | 29.0                 | 32.0  | 14.0                | 28.0  | 12.0              | 20.0  | 78.0                  | 45.0   | -                         | -     | 0.1                     | 2.2   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 13.0                  | 25.5  |
| 20      | 11.0                 | 13.0  | 31.0                 | 33.0  | 12.0                | 27.0  | 11.0              | 19.0  | 88.0                  | 44.0   | -                         | -     | 0.2                     | 2.1   | NW                      | NW    | -             | -     | 2.4                  | 1.6   | 12.5                  | 25.0  |
| 21      | 12.0                 | 13.0  | 31.5                 | 32.5  | 13.0                | 25.0  | 12.0              | 19.0  | 88.0                  | 54.0   | -                         | -     | 0.3                     | 2.1   | NW                      | NW    | -             | -     | 2.4                  | 1.2   | 13.0                  | 25.5  |
| 22      | 12.5                 | 13.5  | 31.0                 | 33.5  | 13.0                | 28.5  | 12.5              | 20.5  | 83.0                  | 45.0   | -                         | -     | 0.2                     | 1.8   | NW                      | NW    | -             | -     | 2.6                  | 1.6   | 13.0                  | 26.0  |
| 23      | 12.0                 | 14.0  | 31.0                 | 31.0  | 13.5                | 27.0  | 12.0              | 19.0  | 83.0                  | 44.0   | -                         | -     | 0.2                     | 2.2   | NW                      | NW    | -             | -     | 2.0                  | 1.4   | 13.0                  | 26.0  |
| 24      | 14.0                 | 16.0  | 30.0                 | 31.0  | 16.0                | 27.0  | 15.0              | 19.0  | 89.0                  | 44.0   | -                         | -     | 0.5                     | 2.0   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 15.0                  | 26.0  |
| 25      | 13.0                 | 13.5  | 30.0                 | 31.0  | 14.0                | 25.0  | 13.0              | 16.5  | 89.0                  | 38.0   | -                         | -     | 1.4                     | 2.5   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 13.5                  | 25.0  |
| 26      | 12.0                 | 14.0  | 25.0                 | 31.0  | 12.0                | 27.0  | 11.0              | 17.0  | 87.0                  | 32.0   | -                         | -     | 0.4                     | 2.3   | NW                      | NW    | -             | -     | 2.0                  | 1.4   | 13.0                  | 26.0  |
| 27      | 11.0                 | 11.0  | 29.0                 | 32.0  | 12.0                | 25.0  | 11.0              | 17.0  | 88.0                  | 41.0   | -                         | -     | 0.2                     | 2.0   | NW                      | NW    | -             | -     | 1.2                  | 2.4   | 13.0                  | 25.0  |
| 28      | 11.0                 | 12.0  | 27.0                 | 32.0  | 12.0                | 26.0  | 11.0              | 25.0  | 88.0                  | 92.0   | -                         | -     | 0.1                     | 2.1   | NW                      | NW    | -             | -     | 1.6                  | 2.4   | 12.5                  | 25.5  |
| 29      | 12.0                 | 15.0  | 28.0                 | 31.0  | 13.0                | 25.5  | 11.0              | 18.5  | 77.0                  | 47.0   | 2.0                       | -     | 0.3                     | 2.8   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 13.0                  | 26.0  |
| 30      | 12.0                 | 14.0  | 26.0                 | 33.0  | 13.0                | 29.0  | 12.0              | 18.5  | 88.0                  | 37.5   | 2.0                       | -     | 0.2                     | 2.5   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 13.0                  | 27.0  |
| 31      | 13.0                 |       | 30.0                 |       | 15.0                |       | 13.0              |       | 78.0                  |        | -                         |       | 0.7                     |       | NW                      |       | -             |       | 2.4                  |       | 13.0                  |       |
| Total   | 379.0                | 447.5 | 874.5                | 974.0 | 421.5               | 799.5 | 386.0             | 575.5 | 2681.5                | 1483.5 | 4.0                       | -     | 9.0                     | 63.0  |                         |       | -             | -     | 59.0                 | 37.4  | 408.0                 | 755.5 |
| Average | 12.2                 | 14.4  | 28.2                 | 31.4  | 13.6                | 25.8  | 12.5              | 18.6  | 86.5                  | 47.9   | 0.1                       | -     | 0.3                     | 2.0   |                         |       |               |       |                      |       | 13.2                  | 24.4  |
|         | 13.3                 |       | 29.8                 |       | 19.7                |       | 15.5              |       | 67.2                  |        | 0.1                       |       | 1.2                     |       |                         |       | 0.0           |       | 96.4                 |       | 18.8                  |       |

# Twice Daily Climatic Data

Station Code : EM000U7  
Local River/Basin : Mahanadi

Station Name : Rajim  
Sub-Division : UMSD,CWC,Burla  
- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 16.0  |                      | 33.0  |                     | 30.0  |                   | 17.0  |                       | 21.0   |                           | -     |                         | 4.1   |                         | NW    |               | -     |                      | 1.6   |                       | 27.5  |
| 1       | 13.0                 | 16.0  | 31.0                 | 33.0  | 15.0                | 30.0  | 12.0              | 17.0  | 68.0                  | 21.0   | -                         | -     | 0.3                     | 0.5   | NW                      | NW    | -             | -     | 2.0                  | 1.6   | 13.0                  | 27.0  |
| 2       | 13.0                 | 16.0  | 29.0                 | 34.0  | 16.0                | 29.0  | 14.0              | 19.0  | 79.0                  | 37.0   | 2.0                       | -     | 2.1                     | 2.8   | NW                      | NW    | -             | -     | 2.0                  | 1.6   | 15.0                  | 28.0  |
| 3       | 14.0                 | 19.0  | 31.0                 | 34.0  | 18.0                | 29.0  | 16.0              | 20.0  | 80.0                  | 40.0   | -                         | -     | 0.3                     | 2.9   | NW                      | NW    | -             | -     | 2.0                  | 1.6   | 15.0                  | 28.0  |
| 4       | 15.0                 | 18.5  | 32.0                 | 34.5  | 17.0                | 28.0  | 16.0              | 21.5  | 90.0                  | 48.0   | -                         | -     | 0.6                     | 3.6   | NW                      | NW    | -             | -     | 2.0                  | 1.6   | 14.5                  | 25.0  |
| 5       | 16.0                 | 23.0  | 30.0                 | 36.5  | 17.0                | 32.5  | 15.0              | 23.5  | 80.0                  | 44.0   | -                         | -     | 0.5                     | 2.3   | NW                      | NW    | -             | -     | 2.0                  | 1.0   | 13.0                  | 30.0  |
| 6       | 17.0                 | 20.5  | 31.0                 | 35.0  | 18.0                | 27.0  | 16.0              | 22.0  | 80.0                  | 63.0   | -                         | -     | 0.5                     | 3.0   | NW                      | SE    | -             | -     | 2.4                  | 1.0   | 14.0                  | 29.0  |
| 7       | 19.0                 | 20.5  | 29.5                 | 30.0  | 19.0                | 25.5  | 17.0              | 20.5  | 81.0                  | 61.0   | -                         | 2.0   | 0.5                     | 1.9   | NW                      | NW    | -             | -     | 1.6                  | 0.6   | 18.0                  | 23.5  |
| 8       | 18.0                 | 18.0  | 31.0                 | 33.5  | 18.0                | 28.0  | 17.0              | 19.0  | 90.0                  | 39.0   | -                         | -     | 0.9                     | 3.1   | NW                      | SW    | -             | -     | 1.2                  | 2.0   | 17.5                  | 28.0  |
| 9       | 17.5                 | 21.0  | 29.5                 | 33.5  | 20.0                | 28.0  | 18.0              | 18.0  | 81.0                  | 33.0   | -                         | 2.0   | 0.6                     | 4.6   | SW                      | NW    | -             | -     | 1.2                  | 2.0   | 17.5                  | 27.5  |
| 10      | 17.0                 | 20.0  | 29.0                 | 33.0  | 20.0                | 29.0  | 18.0              | 20.0  | 81.0                  | 43.0   | 2.0                       | 2.0   | 1.1                     | 2.2   | NW                      | NW    | -             | -     | 1.6                  | 1.0   | 17.0                  | 27.0  |
| 11      | 17.0                 | 18.0  | 29.0                 | 34.0  | 18.0                | 28.0  | 15.0              | 20.0  | 71.0                  | 45.0   | 2.0                       | 2.0   | 0.3                     | 3.0   | NW                      | NW    | -             | -     | 1.6                  | 1.6   | 17.0                  | 27.0  |
| 12      | 17.0                 | 19.0  | 28.0                 | 30.0  | 18.0                | 26.0  | 17.0              | 22.0  | 90.0                  | 69.0   | 2.0                       | -     | 2.2                     | 2.0   | NW                      | NW    | 8.8           | -     | 4.4                  | 0.8   | 17.0                  | 22.0  |
| 13      | 18.5                 | 20.0  | 26.5                 | 28.0  | 19.0                | 25.0  | 18.0              | 21.0  | 90.0                  | 68.0   | -                         | -     | 1.3                     | 2.6   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 17.5                  | 24.5  |
| 14      | 15.5                 | 16.0  | 25.0                 | 27.5  | 16.0                | 26.0  | 15.0              | 21.0  | 89.0                  | 62.0   | -                         | 2.0   | 2.4                     | 1.9   | NW                      | NW    | 6.0           | -     | -                    | 1.2   | 15.0                  | 26.0  |
| 15      | 16.0                 | 18.5  | 27.0                 | 30.0  | 17.0                | 27.0  | 16.0              | 16.0  | 90.0                  | 26.0   | -                         | -     | 0.1                     | 2.3   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 16.0                  | 28.5  |
| 16      | 14.0                 | 14.0  | 27.5                 | 32.5  | 16.0                | 29.0  | 15.0              | 20.0  | 89.0                  | 40.0   | -                         | -     | 0.4                     | 2.1   | NW                      | NW    | -             | -     | 2.0                  | 1.2   | 15.0                  | 29.0  |
| 17      | 16.0                 | 17.5  | 29.0                 | 30.0  | 17.0                | 28.5  | 15.0              | 18.0  | 80.0                  | 36.5   | -                         | 2.0   | 0.3                     | 2.5   | NW                      | NW    | -             | -     | 1.2                  | 1.8   | 16.0                  | 28.0  |
| 18      | 16.0                 | 18.5  | 29.0                 | 34.0  | 18.0                | 28.0  | 16.0              | 22.0  | 80.0                  | 57.0   | -                         | -     | 0.2                     | 2.1   | NW                      | SE    | -             | -     | 2.2                  | 2.0   | 16.0                  | 28.5  |
| 19      | 16.5                 | 21.0  | 29.5                 | 35.0  | 19.0                | 31.0  | 17.0              | 20.5  | 80.0                  | 32.5   | -                         | -     | 0.3                     | 2.5   | NW                      | NW    | -             | -     | 1.6                  | 1.6   | 17.5                  | 30.0  |
| 20      | 16.0                 | 20.0  | 29.0                 | 34.0  | 19.0                | 30.0  | 17.0              | 21.0  | 81.0                  | 42.0   | 2.0                       | -     | 0.5                     | 2.8   | NW                      | NW    | -             | -     | 2.4                  | 0.8   | 18.0                  | 30.0  |
| 21      | 17.0                 | 19.0  | 31.0                 | 36.0  | 19.0                | 29.0  | 17.0              | 20.5  | 81.0                  | 43.0   | -                         | -     | 0.3                     | 2.6   | NW                      | NW    | -             | -     | 2.4                  | 2.4   | 18.0                  | 30.5  |
| 22      | 16.0                 | 18.5  | 30.0                 | 38.5  | 17.0                | 32.5  | 14.0              | 21.5  | 80.0                  | 34.0   | 2.0                       | 2.0   | 0.4                     | 2.2   | NW                      | NW    | -             | -     | 2.0                  | 2.8   | 16.0                  | 31.5  |
| 23      | 17.5                 | 18.0  | 33.5                 | 37.5  | 20.5                | 32.0  | 16.5              | 22.5  | 64.0                  | 41.0   | -                         | -     | 0.3                     | 2.5   | NW                      | SE    | -             | -     | 2.6                  | 2.0   | 18.0                  | 32.0  |
| 24      | 18.0                 | 19.5  | 33.0                 | 38.5  | 20.0                | 32.0  | 17.0              | 23.0  | 73.0                  | 44.0   | -                         | -     | 0.4                     | 2.5   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 18.0                  | 33.0  |
| 25      | 20.0                 | 22.0  | 33.0                 | 37.0  | 21.0                | 32.0  | 16.0              | 23.0  | 57.0                  | 44.0   | 2.0                       | 2.0   | 1.2                     | 2.1   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 33.0  |
| 26      | 20.0                 | 22.5  | 33.0                 | 36.0  | 21.0                | 32.0  | 18.0              | 21.0  | 73.0                  | 39.0   | 2.0                       | 2.0   | 0.2                     | 4.1   | NW                      | NW    | -             | -     | 1.6                  | 2.0   | 20.0                  | 31.0  |
| 27      | 19.0                 | 20.5  | 35.0                 | 36.5  | 19.0                | 31.0  | 17.0              | 20.0  | 81.0                  | 32.0   | 2.0                       | -     | 0.2                     | 2.8   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 18.5                  | 31.0  |
| 28      | 16.5                 |       | 32.0                 |       | 19.0                |       | 17.0              |       | 81.0                  |        | -                         |       | 0.3                     |       | NW                      |       | -             |       | 2.4                  |       | 18.0                  |       |
| Total   | 466.0                | 531.0 | 843.0                | 945.0 | 511.5               | 815.0 | 452.5             | 570.5 | 2240.0                | 1205.0 | 18.0                      | 18.0  | 18.7                    | 73.6  |                         |       | 14.8          | -     | 53.2                 | 44.2  | 465.0                 | 796.0 |
| Average | 16.6                 | 19.0  | 30.1                 | 33.8  | 18.3                | 29.1  | 16.2              | 20.4  | 80.0                  | 43.0   | 0.6                       | 0.6   | 0.7                     | 2.6   |                         |       |               |       |                      |       | 16.6                  | 28.4  |
|         | 17.8                 |       | 31.9                 |       | 23.7                |       | 18.3              |       | 61.5                  |        | 0.6                       |       | 1.6                     |       |                         |       | 14.8          |       | 97.4                 |       | 22.5                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 21.0  |                      | 38.0   |                     | 32.0   |                   | 22.0  |                       | 39.0   |                           | -     |                         | 0.1   |                         | NW    |               | -     |                      | 2.2   |                       | 31.0  |
| 1       | 18.0                 | 21.0  | 33.0                 | 39.0   | 21.0                | 31.0   | 17.0              | 23.0  | 65.0                  | 48.0   | -                         | -     | 0.2                     | 2.6   | NW                      | NW    | -             | -     | 2.8                  | 2.4   | 19.0                  | 31.0  |
| 2       | 19.5                 | 21.5  | 34.0                 | 39.0   | 21.0                | 33.0   | 18.0              | 20.0  | 73.0                  | 30.0   | -                         | -     | 0.6                     | 3.0   | NW                      | NW    | -             | -     | 2.8                  | 2.6   | 20.0                  | 31.0  |
| 3       | 20.0                 | 23.0  | 34.0                 | 38.5   | 22.0                | 33.0   | 18.0              | 22.0  | 66.0                  | 35.0   | -                         | 2.0   | 1.1                     | 3.7   | NW                      | NW    | -             | -     | 2.4                  | 2.6   | 19.0                  | 31.0  |
| 4       | 21.0                 | 23.0  | 34.0                 | 38.0   | 22.0                | 34.0   | 18.0              | 22.0  | 66.0                  | 36.0   | 2.0                       | 2.0   | 0.7                     | 3.6   | SW                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 30.0  |
| 5       | 22.0                 | 23.5  | 35.0                 | 35.5   | 23.0                | 31.0   | 18.0              | 22.0  | 59.0                  | 45.0   | 2.0                       | 2.0   | 1.1                     | 4.7   | NW                      | NW    | -             | -     | 2.4                  | 2.4   | 20.0                  | 29.5  |
| 6       | 20.0                 | 23.0  | 32.0                 | 35.0   | 22.0                | 32.0   | 19.0              | 22.0  | 74.0                  | 41.0   | 2.0                       | 2.0   | 0.5                     | 2.6   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 29.0  |
| 7       | 20.0                 | 22.0  | 32.0                 | 39.0   | 21.0                | 33.0   | 18.0              | 24.0  | 73.0                  | 45.0   | 2.0                       | -     | 0.4                     | 1.9   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 31.0  |
| 8       | 20.0                 | 21.0  | 33.0                 | 37.0   | 22.0                | 31.0   | 18.0              | 22.0  | 66.0                  | 43.0   | 2.0                       | 2.0   | 0.3                     | 2.6   | NW                      | NW    | -             | -     | 2.2                  | 2.4   | 19.0                  | 30.0  |
| 9       | 21.0                 | 22.5  | 34.0                 | 37.5   | 21.0                | 31.0   | 18.0              | 23.5  | 73.0                  | 45.0   | 2.0                       | -     | 0.4                     | 2.1   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 19.0                  | 28.5  |
| 10      | 20.0                 | 23.0  | 32.0                 | 38.0   | 22.0                | 32.0   | 19.5              | 23.0  | 70.0                  | 44.0   | -                         | 2.0   | 0.3                     | 1.9   | NW                      | NW    | -             | -     | 2.4                  | 2.6   | 19.5                  | 30.0  |
| 11      | 21.0                 | 24.0  | 31.0                 | 37.0   | 24.0                | 32.5   | 19.0              | 20.0  | 60.0                  | 29.0   | -                         | 2.0   | 0.8                     | 3.9   | NW                      | NW    | -             | -     | 2.4                  | 2.6   | 20.0                  | 29.5  |
| 12      | 22.0                 | 25.0  | 32.0                 | 36.5   | 24.0                | 33.0   | 19.0              | 21.0  | 60.0                  | 30.0   | 2.0                       | 4.0   | 2.2                     | 5.3   | SW                      | NW    | -             | -     | 2.0                  | 2.8   | 20.0                  | 29.5  |
| 13      | 21.0                 | 25.0  | 33.0                 | 38.0   | 23.0                | 34.5   | 20.0              | 22.0  | 75.0                  | 32.0   | 2.0                       | 2.0   | 1.2                     | 4.3   | NW                      | NW    | -             | -     | 2.4                  | 3.6   | 20.0                  | 31.0  |
| 14      | 20.0                 | 23.5  | 35.0                 | 41.0   | 22.5                | 33.0   | 19.5              | 23.5  | 74.0                  | 45.0   | -                         | -     | 0.9                     | 2.3   | NW                      | NE    | -             | -     | 2.0                  | 2.2   | 19.0                  | 31.5  |
| 15      | 23.0                 | 24.0  | 34.0                 | 36.5   | 22.5                | 32.0   | 19.5              | 22.0  | 74.0                  | 29.0   | -                         | 2.0   | 0.9                     | 5.4   | NE                      | NW    | -             | -     | 2.8                  | 2.0   | 21.0                  | 28.0  |
| 16      | 23.0                 | 24.0  | 32.0                 | 35.0   | 22.0                | 31.0   | 19.5              | 20.0  | 78.0                  | 91.0   | 2.0                       | -     | 1.2                     | 2.7   | NW                      | NW    | -             | 1.6   | 1.8                  | 0.4   | 20.0                  | 30.0  |
| 17      | 18.0                 | 22.0  | 31.5                 | 34.0   | 20.0                | 30.0   | 19.0              | 22.0  | 91.0                  | 47.0   | 2.0                       | 2.0   | 0.9                     | 4.6   | SW                      | NW    | -             | -     | 1.2                  | 2.8   | 17.0                  | 30.0  |
| 18      | 20.0                 | 24.0  | 30.0                 | 32.0   | 23.0                | 32.0   | 19.0              | 22.0  | 67.0                  | 39.0   | -                         | 2.0   | 0.6                     | 2.6   | NW                      | NW    | -             | -     | 0.8                  | 2.8   | 19.0                  | 30.0  |
| 19      | 21.0                 | 26.0  | 36.0                 | 40.0   | 25.0                | 32.0   | 20.0              | 22.0  | 65.0                  | 39.0   | 2.0                       | -     | 0.3                     | 3.1   | NW                      | NW    | -             | -     | 2.0                  | 2.8   | 20.0                  | 31.5  |
| 20      | 19.0                 | 27.0  | 39.0                 | 39.5   | 24.0                | 34.0   | 20.0              | 24.0  | 71.0                  | 41.0   | -                         | -     | 0.1                     | 1.9   | NW                      | NW    | -             | -     | 3.2                  | 2.8   | 19.0                  | 32.0  |
| 21      | 22.0                 | 24.0  | 35.0                 | 39.0   | 22.0                | 34.0   | 18.0              | 24.5  | 66.0                  | 43.0   | -                         | -     | 0.2                     | 3.6   | NW                      | NE    | -             | -     | 2.0                  | 2.4   | 20.5                  | 30.5  |
| 22      | 23.0                 | 25.0  | 35.0                 | 41.0   | 23.0                | 34.0   | 19.0              | 20.5  | 67.0                  | 28.0   | 2.0                       | 4.0   | 0.6                     | 2.6   | NE                      | NW    | -             | -     | 1.2                  | 3.2   | 21.0                  | 31.5  |
| 23      | 20.5                 | 25.5  | 35.5                 | 39.0   | 23.5                | 34.0   | 17.5              | 19.5  | 75.0                  | 24.0   | 2.0                       | 4.0   | 0.7                     | 3.7   | NW                      | NW    | -             | -     | 3.4                  | 3.2   | 20.0                  | 31.5  |
| 24      | 21.0                 | 26.0  | 35.0                 | 40.0   | 23.0                | 34.0   | 18.0              | 19.0  | 59.0                  | 19.0   | 2.0                       | 2.0   | 0.5                     | 2.7   | NW                      | NW    | -             | -     | 2.0                  | 4.2   | 19.5                  | 32.5  |
| 25      | 21.0                 | 26.0  | 36.0                 | 41.0   | 25.0                | 35.0   | 18.5              | 21.0  | 51.0                  | 24.0   | -                         | -     | 0.5                     | 2.4   | NW                      | NW    | -             | -     | 3.2                  | 2.0   | 21.0                  | 33.0  |
| 26      | 20.0                 | 26.0  | 36.0                 | 39.5   | 25.0                | 34.0   | 20.0              | 20.0  | 61.0                  | 23.0   | -                         | -     | 0.4                     | 3.6   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 20.5                  | 31.0  |
| 27      | 20.0                 | 26.0  | 35.0                 | 41.0   | 24.0                | 34.5   | 18.0              | 22.0  | 49.5                  | 33.0   | -                         | -     | 0.7                     | 2.9   | NW                      | NW    | -             | -     | 3.2                  | 3.2   | 19.0                  | 32.0  |
| 28      | 19.0                 | 24.0  | 40.0                 | 41.0   | 24.0                | 33.0   | 18.0              | 24.0  | 53.0                  | 45.0   | 2.0                       | 2.0   | 0.3                     | 2.5   | NW                      | NW    | -             | -     | 2.0                  | 2.4   | 19.5                  | 32.0  |
| 29      | 22.0                 | 24.0  | 36.0                 | 41.0   | 25.0                | 35.0   | 20.0              | 22.0  | 61.0                  | 33.0   | 2.0                       | 4.0   | 0.6                     | 3.4   | NW                      | NW    | -             | -     | 3.6                  | 3.8   | 21.0                  | 31.5  |
| 30      | 22.0                 | 26.5  | 36.0                 | 42.0   | 25.0                | 36.0   | 20.0              | 22.0  | 53.0                  | 26.0   | 2.0                       | -     | 0.9                     | 2.7   | NW                      | NW    | -             | -     | 3.2                  | 3.2   | 20.5                  | 32.0  |
| 31      | 22.0                 |       | 37.0                 |        | 24.0                |        | 19.0              |       | 60.0                  |        | 2.0                       |       | 0.9                     |       | NW                      |       | -             |       | 3.2                  |       | 21.0                  |       |
| Total   | 642.0                | 742.0 | 1063.0               | 1188.5 | 710.5               | 1020.5 | 582.0             | 678.5 | 2055.5                | 1171.0 | 36.0                      | 42.0  | 21.0                    | 95.0  |                         |       | -             | 1.6   | 72.6                 | 82.0  | 612.0                 | 952.5 |
| Average | 20.7                 | 23.9  | 34.3                 | 38.3   | 22.9                | 32.9   | 18.8              | 21.9  | 66.3                  | 37.8   | 1.2                       | 1.4   | 0.7                     | 3.1   |                         |       |               |       |                      |       | 19.7                  | 30.7  |
|         | 22.3                 |       | 36.3                 |        | 27.9                |        | 20.3              |       | 52.0                  |        | 1.3                       |       | 1.9                     |       |                         |       | 1.6           |       | 154.6                |       | 25.2                  |       |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPoPM   |                      | 27.0  |                      | 42.0   |                     | 32.0   |                   | 19.0  |                       | 24.0   |                           | 4.0   |                         | 5.5   |                         | SW    |               | -     |                      | 3.4   |                       | 30.0   |
| 1       | 22.0                 | 26.0  | 32.0                 | 36.0   | 24.5                | 31.0   | 21.0              | 23.0  | 71.0                  | 48.0   | 2.0                       | -     | 2.1                     | 2.8   | NE                      | NE    | -             | -     | 3.4                  | 3.2   | 21.0                  | 30.5   |
| 2       | 20.0                 | 25.5  | 33.0                 | 36.5   | 22.0                | 31.0   | 20.0              | 22.5  | 82.0                  | 45.0   | 2.0                       | -     | 2.2                     | 3.1   | NW                      | NW    | 4.0           | -     | 0.8                  | 3.4   | 20.5                  | 32.5   |
| 3       | 21.5                 | 27.0  | 32.5                 | 39.0   | 26.0                | 36.0   | 20.5              | 22.5  | 59.0                  | 30.0   | 2.0                       | -     | 0.6                     | 4.5   | NW                      | NW    | -             | -     | 3.2                  | 3.6   | 21.0                  | 35.0   |
| 4       | 22.0                 | 28.0  | 39.0                 | 41.0   | 27.0                | 35.0   | 20.5              | 22.5  | 50.0                  | 33.0   | 2.0                       | 2.0   | 0.5                     | 4.9   | SW                      | NW    | -             | -     | 3.2                  | 3.6   | 21.0                  | 35.0   |
| 5       | 24.0                 | 29.5  | 40.5                 | 41.0   | 27.5                | 33.5   | 20.5              | 21.0  | 50.0                  | 35.0   | 2.0                       | 2.0   | 1.2                     | 4.5   | NW                      | NW    | -             | -     | 3.6                  | 3.4   | 22.5                  | 32.5   |
| 6       | 24.0                 | 27.5  | 39.0                 | 42.0   | 27.0                | 34.0   | 22.0              | 25.0  | 63.0                  | 46.0   | 2.0                       | 4.0   | 1.6                     | 5.6   | NW                      | NW    | -             | -     | 3.4                  | 3.6   | 22.0                  | 33.0   |
| 7       | 24.0                 | 26.5  | 37.5                 | 41.0   | 26.0                | 30.0   | 21.0              | 26.0  | 62.0                  | 72.0   | -                         | 4.0   | 4.3                     | 4.5   | NW                      | NW    | -             | -     | 3.2                  | 3.4   | 21.0                  | 30.0   |
| 8       | 24.0                 | 26.0  | 36.0                 | 39.0   | 24.0                | 31.0   | 22.0              | 26.0  | 83.0                  | 65.5   | 2.0                       | 2.0   | 2.6                     | 4.2   | NW                      | NW    | -             | -     | 3.4                  | 3.6   | 22.0                  | 30.0   |
| 9       | 25.0                 | 27.5  | 34.0                 | 37.0   | 26.0                | 33.5   | 23.0              | 26.0  | 76.0                  | 53.0   | 2.0                       | 2.0   | 1.2                     | 2.7   | NW                      | NW    | -             | -     | 3.2                  | 3.4   | 24.0                  | 32.0   |
| 10      | 24.0                 | 27.0  | 35.0                 | 39.0   | 23.0                | 34.0   | 20.0              | 25.0  | 75.0                  | 46.0   | 2.0                       | -     | 0.9                     | 4.3   | NW                      | NW    | -             | -     | 3.2                  | 3.6   | 23.0                  | 33.0   |
| 11      | 25.0                 | 28.0  | 35.0                 | 39.0   | 26.0                | 34.0   | 22.0              | 25.0  | 69.0                  | 46.0   | -                         | -     | 1.6                     | 3.7   | NW                      | NW    | -             | -     | 2.4                  | 3.6   | 23.0                  | 34.5   |
| 12      | 25.0                 | 30.0  | 36.0                 | 38.0   | 27.0                | 35.0   | 21.0              | 24.0  | 56.0                  | 37.0   | 2.0                       | 2.0   | 1.0                     | 5.3   | NW                      | NW    | -             | -     | 3.2                  | 3.2   | 23.0                  | 34.0   |
| 13      | 24.0                 | 26.5  | 35.0                 | 38.5   | 26.0                | 34.5   | 22.0              | 28.0  | 69.0                  | 59.0   | 2.0                       | -     | 2.1                     | 2.4   | NW                      | NE    | -             | -     | 2.8                  | 3.2   | 23.0                  | 34.0   |
| 14      | 24.0                 | 24.0  | 34.0                 | 39.0   | 23.0                | 24.0   | 21.0              | 23.0  | 83.0                  | 91.0   | 2.0                       | 6.0   | 2.7                     | 5.6   | NW                      | NE    | -             | 4.0   | 2.4                  | 0.8   | 22.0                  | 32.0   |
| 15      | 22.0                 | 26.0  | 35.0                 | 38.0   | 23.0                | 34.0   | 21.0              | 25.0  | 81.0                  | 46.0   | 2.0                       | 2.0   | 2.6                     | 3.5   | SE                      | NW    | 3.2           | -     | 1.6                  | 3.6   | 22.0                  | 33.0   |
| 16      | 22.5                 | 28.0  | 37.0                 | 38.0   | 26.5                | 36.0   | 25.0              | 26.0  | 88.0                  | 43.0   | -                         | -     | 2.5                     | 3.1   | NE                      | NW    | 2.0           | -     | 2.8                  | 2.8   | 23.0                  | 35.0   |
| 17      | 26.0                 | 31.0  | 37.0                 | 41.5   | 31.0                | 38.0   | 25.0              | 25.0  | 59.5                  | 32.0   | 2.0                       | 4.0   | 0.9                     | 5.7   | NW                      | NW    | -             | -     | 3.2                  | 3.2   | 27.0                  | 35.5   |
| 18      | 26.0                 | 29.5  | 39.0                 | 43.0   | 29.0                | 37.0   | 24.0              | 27.0  | 64.0                  | 44.0   | 2.0                       | -     | 2.3                     | 5.4   | NW                      | NW    | -             | -     | 3.6                  | 4.0   | 25.0                  | 37.0   |
| 19      | 26.0                 | 29.0  | 38.0                 | 43.0   | 28.0                | 38.0   | 23.0              | 27.0  | 64.0                  | 40.0   | -                         | -     | 0.9                     | 3.0   | NW                      | NW    | -             | -     | 4.0                  | 3.2   | 25.0                  | 37.0   |
| 20      | 26.0                 | 30.0  | 40.0                 | 42.5   | 29.0                | 40.0   | 24.0              | 24.0  | 64.0                  | 23.0   | -                         | -     | 0.6                     | 6.0   | NW                      | NW    | -             | -     | 3.6                  | 4.0   | 25.0                  | 35.5   |
| 21      | 26.0                 | 31.0  | 40.0                 | 43.0   | 29.0                | 38.0   | 23.0              | 24.0  | 64.0                  | 27.0   | 2.0                       | 4.0   | 3.0                     | 5.4   | NW                      | NW    | -             | -     | 3.6                  | 5.2   | 24.5                  | 35.0   |
| 22      | 26.0                 | 29.0  | 39.0                 | 43.0   | 28.0                | 38.0   | 22.0              | 24.0  | 64.0                  | 28.0   | 2.0                       | 2.0   | 1.5                     | 2.6   | NW                      | NW    | -             | -     | 3.6                  | 3.6   | 24.0                  | 36.0   |
| 23      | 26.0                 | 29.0  | 39.0                 | 43.0   | 27.0                | 37.0   | 21.0              | 27.0  | 56.0                  | 44.0   | 4.0                       | 4.0   | 1.1                     | 3.5   | NW                      | NW    | -             | -     | 3.2                  | 5.2   | 25.0                  | 36.0   |
| 24      | 24.0                 | 25.0  | 37.0                 | 39.0   | 32.0                | 37.0   | 22.0              | 23.0  | 44.0                  | 23.0   | -                         | -     | 1.0                     | 2.8   | NW                      | NW    | -             | -     | 2.0                  | 4.8   | 27.0                  | 35.0   |
| 25      | 24.5                 | 31.0  | 40.0                 | 42.0   | 32.0                | 38.5   | 24.0              | 25.0  | 49.0                  | 32.0   | 2.0                       | 4.0   | 1.9                     | 4.7   | SW                      | NW    | -             | -     | 2.8                  | 5.2   | 27.5                  | 33.0   |
| 26      | 24.5                 | 29.0  | 39.0                 | 42.0   | 27.5                | 33.5   | 22.5              | 23.0  | 63.0                  | 40.0   | 2.0                       | -     | 0.7                     | 5.2   | NW                      | NW    | -             | -     | 4.2                  | 4.0   | 24.5                  | 33.0   |
| 27      | 24.0                 | 28.0  | 35.0                 | 42.0   | 27.0                | 39.0   | 22.0              | 26.0  | 66.5                  | 33.0   | -                         | 2.0   | 2.8                     | 3.9   | NW                      | NW    | -             | -     | 3.6                  | 3.6   | 22.5                  | 36.0   |
| 28      | 25.0                 | 30.0  | 38.0                 | 42.0   | 29.0                | 38.0   | 24.0              | 27.0  | 64.0                  | 40.0   | 2.0                       | 2.0   | 2.2                     | 5.8   | SE                      | SE    | -             | -     | 2.8                  | 4.8   | 25.0                  | 35.0   |
| 29      | 26.0                 | 33.0  | 39.0                 | 42.0   | 30.0                | 38.0   | 26.0              | 26.0  | 72.0                  | 36.0   | -                         | 2.0   | 2.9                     | 5.3   | NW                      | SW    | 0.4           | -     | 3.2                  | 4.0   | 26.0                  | 36.0   |
| 30      | 29.0                 |       | 39.5                 |        | 30.0                |        | 26.0              |       | 26.0                  |        | 4.0                       |       | 2.9                     |       | SW                      |       | -             |       | 4.4                  |       | 27.0                  |        |
| Total   | 732.0                | 844.5 | 1110.0               | 1212.0 | 813.0               | 1048.5 | 671.0             | 737.5 | 1937.0                | 1261.5 | 48.0                      | 54.0  | 54.4                    | 129.5 |                         |       | 9.6           | 4.0   | 93.6                 | 110.2 | 709.0                 | 1016.0 |
| Average | 24.4                 | 28.2  | 37.0                 | 40.4   | 27.1                | 35.0   | 22.4              | 24.6  | 64.6                  | 42.1   | 1.6                       | 1.8   | 1.8                     | 4.3   |                         |       |               |       |                      |       | 23.6                  | 33.9   |
|         | 26.3                 |       | 38.7                 |        | 31.0                |        | 23.5              |       | 53.3                  |        | 1.7                       |       | 3.1                     |       |                         |       | 13.6          |       | 203.8                |       | 28.8                  |        |

## Twice Daily Climatic Data

Station Code : EM000U7

Local River/Basin : Mahanadi

Station Name : Rajim

Sub-Division : UMSD,CWC,Burla

- 0.0 .. N.A.

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 31.5  |                      | 43.5   |                     | 41.5   |                   | 26.0  |                       | 72.0   |                           | 6.0   |                         | 6.1   |                         | NW    |               | -     |                      | 5.6   |                       | 37.0   |
| 1       | 27.5                 | 30.5  | 41.5                 | 42.5   | 29.0                | 37.0   | 24.0              | 25.0  | 64.0                  | 35.0   | 4.0                       | 2.0   | 3.0                     | 5.3   | SE                      | NW    | -             | -     | 4.8                  | 5.2   | 27.0                  | 37.0   |
| 2       | 26.0                 | 27.0  | 42.0                 | 39.5   | 25.0                | 37.5   | 23.0              | 27.5  | 84.0                  | 44.0   | 2.0                       | 2.0   | 3.9                     | 4.6   | SW                      | NW    | -             | -     | 2.8                  | 4.4   | 23.0                  | 36.0   |
| 3       | 22.0                 | 22.0  | 37.0                 | 37.0   | 21.0                | 35.5   | 20.0              | 25.5  | 91.0                  | 42.0   | 4.0                       | -     | 4.2                     | 3.8   | NW                      | NW    | 1.2           | -     | 2.4                  | 3.2   | 23.0                  | 36.0   |
| 4       | 25.0                 | 28.0  | 36.0                 | 39.0   | 27.0                | 37.0   | 23.5              | 27.0  | 70.0                  | 44.0   | 2.0                       | 2.0   | 2.2                     | 6.0   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 25.0                  | 35.0   |
| 5       | 26.0                 | 32.0  | 36.0                 | 41.5   | 30.0                | 39.0   | 26.0              | 27.0  | 72.0                  | 37.0   | 2.0                       | 2.0   | 2.1                     | 5.9   | NW                      | NW    | -             | -     | 2.8                  | 5.2   | 26.0                  | 36.0   |
| 6       | 27.5                 | 33.5  | 40.5                 | 42.5   | 32.0                | 40.0   | 27.0              | 27.5  | 70.0                  | 39.0   | 2.0                       | 2.0   | 1.9                     | 6.6   | SW                      | NW    | -             | -     | 4.0                  | 4.8   | 28.0                  | 37.5   |
| 7       | 29.0                 | 34.0  | 41.0                 | 42.5   | 32.0                | 39.0   | 26.0              | 28.0  | 61.0                  | 41.0   | 2.0                       | 2.0   | 2.8                     | 6.3   | NW                      | NW    | -             | -     | 3.2                  | 6.0   | 28.0                  | 37.5   |
| 8       | 29.0                 | 34.5  | 39.0                 | 44.0   | 33.0                | 41.0   | 27.0              | 27.5  | 61.5                  | 35.0   | 2.0                       | 2.0   | 2.4                     | 4.7   | SW                      | NW    | -             | -     | 4.0                  | 4.8   | 27.5                  | 37.5   |
| 9       | 28.5                 | 34.0  | 41.5                 | 45.0   | 32.5                | 41.0   | 26.5              | 28.0  | 61.0                  | 35.0   | 2.0                       | 2.0   | 1.6                     | 3.7   | NW                      | NW    | -             | -     | 4.8                  | 4.4   | 27.0                  | 38.5   |
| 10      | 26.0                 | 31.0  | 41.5                 | 43.0   | 30.5                | 40.5   | 25.5              | 28.5  | 65.0                  | 38.0   | 2.0                       | 2.0   | 4.0                     | 5.3   | SW                      | NW    | -             | -     | 4.0                  | 4.8   | 26.0                  | 36.5   |
| 11      | 29.0                 | 29.5  | 41.0                 | 42.0   | 34.0                | 30.5   | 27.0              | 25.5  | 56.0                  | 65.0   | 2.0                       | -     | 1.9                     | 5.5   | NW                      | NE    | -             | -     | 3.6                  | 5.2   | 28.0                  | 33.0   |
| 12      | 29.0                 | 30.5  | 40.0                 | 41.5   | 29.5                | 38.0   | 25.0              | 28.5  | 68.0                  | 47.0   | -                         | 2.0   | 2.7                     | 5.1   | NW                      | SW    | -             | -     | 4.2                  | 5.6   | 26.5                  | 28.5   |
| 13      | 24.0                 | 31.0  | 39.0                 | 41.0   | 27.0                | 39.0   | 24.9              | 29.0  | 77.0                  | 46.0   | 2.0                       | 2.0   | 4.1                     | 6.2   | NW                      | NW    | 13.2          | -     | 2.4                  | 5.2   | 23.0                  | 34.5   |
| 14      | 27.0                 | 26.0  | 38.0                 | 38.0   | 26.0                | 36.0   | 25.0              | 27.0  | 92.0                  | 48.0   | 2.0                       | 2.0   | 1.8                     | 5.2   | NE                      | NW    | 0.8           | -     | 5.2                  | 3.6   | 25.0                  | 35.0   |
| 15      | 24.0                 | 27.5  | 31.0                 | 39.0   | 26.5                | 38.0   | 24.0              | 28.0  | 80.0                  | 45.0   | 2.0                       | 4.0   | 3.3                     | 5.6   | NE                      | NE    | -             | -     | 3.6                  | 4.0   | 24.0                  | 36.0   |
| 16      | 27.5                 | 31.5  | 38.0                 | 39.0   | 31.0                | 38.5   | 26.5              | 28.5  | 69.0                  | 45.0   | 2.0                       | 4.0   | 1.7                     | 4.6   | NW                      | NW    | -             | -     | 3.6                  | 3.6   | 26.0                  | 34.0   |
| 17      | 26.0                 | 25.0  | 37.0                 | 42.0   | 29.5                | 31.0   | 26.5              | 27.5  | 78.0                  | 86.0   | 4.0                       | 2.0   | 2.1                     | 4.9   | SE                      | SE    | -             | 7.2   | 2.8                  | 4.0   | 26.0                  | 32.0   |
| 18      | 24.5                 | 29.0  | 29.0                 | 40.5   | 28.5                | 38.5   | 25.5              | 28.0  | 77.0                  | 47.0   | 2.0                       | 4.0   | 3.4                     | 6.7   | SE                      | NW    | 0.8           | -     | 2.0                  | 4.8   | 25.0                  | 35.0   |
| 19      | 28.0                 | 35.0  | 39.0                 | 43.0   | 32.5                | 41.0   | 27.0              | 27.5  | 64.0                  | 39.0   | 4.0                       | -     | 2.4                     | 4.3   | NW                      | SW    | -             | -     | 3.2                  | 3.6   | 29.0                  | 39.0   |
| 20      | 29.0                 | 34.0  | 41.5                 | 41.5   | 32.0                | 36.5   | 26.5              | 27.0  | 64.0                  | 45.0   | 2.0                       | 2.0   | 2.2                     | 6.0   | SE                      | NW    | -             | -     | 3.2                  | 5.2   | 28.0                  | 37.0   |
| 21      | 29.0                 | 31.5  | 38.0                 | 37.0   | 30.0                | 34.0   | 28.0              | 29.0  | 85.0                  | 56.0   | 2.0                       | 2.0   | 3.1                     | 8.6   | SW                      | SE    | -             | -     | 5.2                  | 4.8   | 27.0                  | 36.0   |
| 22      | 29.0                 | 34.0  | 36.0                 | 41.0   | 31.5                | 38.5   | 27.0              | 29.0  | 69.0                  | 47.0   | -                         | 2.0   | 3.1                     | 4.9   | SE                      | SW    | -             | -     | 2.8                  | 4.4   | 28.0                  | 38.0   |
| 23      | 26.0                 | 31.0  | 40.0                 | 42.0   | 29.5                | 39.5   | 26.0              | 30.0  | 74.0                  | 48.0   | 2.0                       | -     | 3.6                     | 4.8   | SE                      | NW    | 10.8          | -     | 7.2                  | 4.4   | 27.0                  | 38.0   |
| 24      | 29.0                 | 33.0  | 41.0                 | 41.0   | 32.0                | 39.0   | 27.0              | 29.0  | 67.0                  | 46.0   | 2.0                       | 4.0   | 4.0                     | 5.7   | NW                      | NW    | -             | -     | 4.4                  | 4.4   | 27.0                  | 37.0   |
| 25      | 29.5                 | 33.0  | 40.0                 | 42.0   | 32.0                | 40.0   | 27.0              | 29.5  | 55.0                  | 47.5   | 2.0                       | 4.0   | 1.8                     | 4.6   | NW                      | NW    | -             | -     | 2.0                  | 4.8   | 29.0                  | 39.0   |
| 26      | 25.0                 | 30.0  | 40.0                 | 40.5   | 28.0                | 35.5   | 25.0              | 29.5  | 77.0                  | 62.5   | 2.0                       | 2.0   | 5.1                     | 2.7   | SE                      | NW    | 10.0          | -     | 6.0                  | 3.6   | 26.0                  | 36.0   |
| 27      | 27.0                 | 32.0  | 37.0                 | 39.0   | 30.0                | 36.0   | 28.0              | 27.0  | 85.0                  | 48.0   | 2.0                       | 2.0   | 3.8                     | 4.4   | NW                      | SE    | -             | -     | 4.0                  | 4.2   | 29.0                  | 37.5   |
| 28      | 28.0                 | 32.0  | 37.0                 | 41.5   | 31.0                | 39.0   | 27.0              | 28.5  | 73.0                  | 41.0   | 2.0                       | 2.0   | 1.1                     | 5.9   | NW                      | SW    | -             | -     | 4.0                  | 4.4   | 29.0                  | 37.5   |
| 29      | 30.0                 | 33.0  | 40.0                 | 43.0   | 32.0                | 40.5   | 27.0              | 28.0  | 67.0                  | 38.5   | 2.0                       | 2.0   | 2.6                     | 6.2   | SE                      | SE    | -             | -     | 5.2                  | 4.6   | 30.0                  | 37.0   |
| 30      | 29.5                 | 35.0  | 41.5                 | 43.0   | 34.0                | 40.0   | 27.5              | 29.0  | 59.0                  | 42.0   | -                         | 4.0   | 2.1                     | 4.5   | NW                      | NW    | -             | -     | 4.2                  | 4.6   | 37.0                  | 38.0   |
| 31      | 25.0                 |       | 41.0                 |        | 26.0                |        | 24.5              |       | 28.0                  |        | 2.0                       |       | 6.7                     |       | NE                      |       | 3.6           |       | 0.6                  |       | 29.0                  |        |
| Total   | 841.5                | 961.5 | 1201.0               | 1277.5 | 924.5               | 1178.0 | 800.4             | 862.5 | 2163.5                | 1451.5 | 64.0                      | 70.0  | 90.7                    | 164.7 |                         |       | 40.4          | 7.2   | 116.2                | 141.4 | 839.0                 | 1122.5 |
| Average | 27.1                 | 31.0  | 38.7                 | 41.2   | 29.8                | 38.0   | 25.8              | 27.8  | 69.8                  | 46.8   | 2.1                       | 2.3   | 2.9                     | 5.3   |                         |       |               |       |                      |       | 27.1                  | 36.2   |
|         | 29.1                 |       | 40.0                 |        | 33.9                |        | 26.8              |       | 58.3                  |        | 2.2                       |       | 4.1                     |       |                         |       | 47.6          |       | 257.6                |       | 31.6                  |        |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 33.0  |                      | 43.0   |                     | 37.0   |                   | 27.0  |                       | 44.0   |                           | -     |                         | 0.7   |                         | NE    |               | -     |                      | 3.8   |                       | 36.0   |
| 1       | 33.0                 | 35.0  | 42.0                 | 43.0   | 34.0                | 35.0   | 26.0              | 26.0  | 51.0                  | 47.0   | -                         | -     | 1.2                     | 0.9   | NE                      | SE    | -             | -     | 5.5                  | 6.0   | 29.0                  | 34.0   |
| 2       | 33.0                 | 34.0  | 37.0                 | 45.0   | 33.0                | 38.0   | 27.0              | 28.0  | 61.5                  | 45.0   | -                         | -     | 0.7                     | 1.1   | SE                      | NW    | -             | -     | 2.0                  | 3.2   | 28.0                  | 33.5   |
| 3       | 33.0                 | 36.0  | 39.0                 | 46.0   | 36.0                | 40.0   | 28.0              | 28.0  | 53.0                  | 38.0   | -                         | -     | 2.3                     | 1.4   | SE                      | SE    | -             | -     | 3.1                  | 4.2   | 28.0                  | 37.0   |
| 4       | 34.0                 | 36.0  | 44.0                 | 45.0   | 36.0                | 40.0   | 28.0              | 29.0  | 53.0                  | 42.0   | -                         | -     | 1.1                     | 2.8   | SE                      | NE    | -             | -     | 3.0                  | 5.3   | 29.0                  | 36.5   |
| 5       | 35.0                 | 37.0  | 45.0                 | 43.0   | 35.0                | 41.0   | 28.0              | 28.0  | 57.0                  | 35.0   | -                         | -     | 1.0                     | 2.7   | NE                      | SE    | -             | -     | 4.0                  | 5.6   | 29.0                  | 38.0   |
| 6       | 34.0                 | 37.0  | 43.0                 | 42.0   | 34.0                | 38.0   | 27.0              | 28.0  | 56.0                  | 45.0   | -                         | -     | 0.3                     | 0.7   | NW                      | NE    | -             | -     | 3.7                  | 3.9   | 28.5                  | 37.0   |
| 7       | 31.0                 | 32.0  | 38.0                 | 42.0   | 33.0                | 38.0   | 26.0              | 28.0  | 55.5                  | 45.0   | -                         | -     | 0.5                     | 0.2   | SW                      | SE    | -             | -     | 2.7                  | 3.5   | 27.5                  | 36.0   |
| 8       | 30.0                 | 32.0  | 40.0                 | 43.0   | 31.0                | 36.0   | 27.0              | 27.0  | 72.5                  | 48.0   | -                         | -     | 0.1                     | 0.6   | SE                      | NW    | 6.6           | -     | 0.4                  | 2.2   | 27.5                  | 37.0   |
| 9       | 31.0                 | 33.0  | 37.0                 | 42.0   | 32.0                | 38.0   | 27.0              | 27.0  | 67.0                  | 40.0   | -                         | -     | 0.0                     | 0.6   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 28.0                  | 35.5   |
| 10      | 31.0                 | 32.0  | 38.0                 | 43.0   | 33.0                | 37.0   | 27.0              | 28.0  | 61.5                  | 49.0   | -                         | -     | 1.9                     | 0.8   | SE                      | SE    | -             | 21.4  | 2.3                  | 3.4   | 27.5                  | 36.0   |
| 11      | 30.0                 | 31.0  | 39.0                 | 40.0   | 32.0                | 29.0   | 26.0              | 26.0  | 61.0                  | 78.0   | -                         | -     | 0.3                     | 1.4   | NE                      | NW    | -             | -     | 2.4                  | 0.2   | 28.0                  | 30.5   |
| 12      | 30.0                 | 31.0  | 40.0                 | 36.0   | 30.0                | 31.0   | 26.0              | 26.0  | 72.0                  | 66.0   | -                         | -     | 0.6                     | 3.2   | SE                      | SE    | 4.0           | -     | 1.2                  | 2.7   | 26.5                  | 32.5   |
| 13      | 28.0                 | 29.0  | 33.0                 | 37.0   | 30.0                | 35.0   | 27.0              | 28.0  | 78.0                  | 57.0   | -                         | -     | 0.4                     | 2.0   | SE                      | SE    | -             | -     | 0.2                  | 2.0   | 26.0                  | 34.5   |
| 14      | 31.0                 | 32.0  | 35.0                 | 37.0   | 31.0                | 37.0   | 26.0              | 30.0  | 66.0                  | 69.5   | -                         | -     | 0.2                     | 1.0   | NE                      | NE    | -             | -     | 2.1                  | 3.3   | 27.0                  | 37.0   |
| 15      | 32.0                 | 36.0  | 35.0                 | 43.0   | 31.0                | 35.0   | 27.0              | 26.0  | 72.5                  | 47.0   | 0.0                       | 0.0   | 2.0                     | 0.9   | NE                      | SE    | -             | -     | 2.2                  | 3.3   | 26.5                  | 36.0   |
| 16      | 30.0                 | 32.0  | 31.0                 | 42.0   | 30.0                | 35.0   | 26.0              | 26.0  | 72.0                  | 61.0   | 0.0                       | -     | 1.3                     | 2.7   | SE                      | NW    | -             | -     | 2.0                  | 2.4   | 27.0                  | 33.5   |
| 17      | 31.0                 | 33.0  | 32.0                 | 42.0   | 32.0                | 38.0   | 26.0              | 28.0  | 61.0                  | 45.0   | -                         | -     | 1.1                     | 1.3   | NE                      | SE    | -             | -     | 2.3                  | 4.0   | 28.0                  | 36.0   |
| 18      | 32.0                 | 35.0  | 39.0                 | 43.0   | 33.0                | 35.0   | 27.0              | 28.0  | 61.5                  | 57.0   | -                         | 0.0   | 1.3                     | 1.4   | NE                      | SW    | 9.6           | -     | 2.8                  | 3.4   | 27.5                  | 35.5   |
| 19      | 29.0                 | 33.0  | 36.0                 | 40.0   | 31.0                | 35.0   | 28.0              | 28.0  | 78.0                  | 57.0   | 0.0                       | -     | 0.6                     | 0.5   | NW                      | SW    | -             | 0.6   | 0.6                  | 2.1   | 27.5                  | 36.0   |
| 20      | 30.0                 | 32.0  | 35.0                 | 41.0   | 31.0                | 33.0   | 27.0              | 26.0  | 72.5                  | 55.5   | -                         | -     | 0.4                     | 1.1   | NE                      | NW    | 0.8           | -     | 2.2                  | 2.7   | 26.5                  | 35.0   |
| 21      | 28.0                 | 31.0  | 34.0                 | 40.0   | 27.0                | 32.0   | 25.0              | 27.0  | 84.0                  | 67.0   | -                         | -     | 0.6                     | 0.4   | NW                      | SE    | 21.4          | -     | 0.9                  | 2.0   | 35.5                  | 34.9   |
| 22      | 29.0                 | 32.0  | 35.0                 | 41.0   | 28.0                | 33.0   | 26.0              | 26.0  | 85.0                  | 55.5   | 0.0                       | 0.0   | 0.9                     | 1.3   | SE                      | SW    | -             | -     | 2.0                  | 4.6   | 26.0                  | 35.1   |
| 23      | 28.0                 | 30.0  | 34.0                 | 38.0   | 28.0                | 29.0   | 25.0              | 25.0  | 77.0                  | 71.0   | -                         | -     | 0.5                     | 1.6   | SE                      | NW    | -             | -     | 2.2                  | 2.5   | 25.5                  | 33.0   |
| 24      | 27.0                 | 30.0  | 33.0                 | 37.0   | 27.0                | 29.0   | 24.0              | 25.0  | 77.0                  | 71.0   | -                         | 0.0   | 1.7                     | 0.8   | NE                      | NE    | 2.0           | -     | 2.1                  | 2.8   | 26.0                  | 33.0   |
| 25      | 27.0                 | 29.0  | 32.0                 | 38.0   | 28.0                | 32.0   | 26.0              | 27.0  | 85.0                  | 67.0   | 0.0                       | -     | 0.4                     | 0.6   | SE                      | SW    | 97.2          | 20.6  | 0.6                  | 0.6   | 25.0                  | 31.5   |
| 26      | 26.0                 | 29.0  | 29.0                 | 33.0   | 27.0                | 29.0   | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | 0.0   | 0.2                     | 0.3   | NE                      | NW    | 7.6           | -     | 0.3                  | 0.2   | 25.5                  | -      |
| 27      | 27.0                 | 28.0  | 28.0                 | 32.0   | 27.0                | 28.0   | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 0.6                     | 0.2   | NW                      | NE    | -             | 0.4   | 2.0                  | 0.8   | 26.0                  | 31.0   |
| 28      | 28.0                 | 28.0  | 34.0                 | 33.0   | 28.0                | 28.0   | 26.0              | 27.0  | 85.0                  | 92.0   | 0.0                       | -     | 0.2                     | 3.2   | NW                      | NE    | 1.2           | -     | -                    | 0.6   | 26.0                  | 29.5   |
| 29      | 29.0                 | 28.0  | 31.0                 | 32.0   | 28.0                | 30.0   | 26.0              | 27.0  | 85.0                  | 78.0   | 0.0                       | -     | 0.7                     | 1.0   | NE                      | SE    | 45.4          | -     | 0.4                  | 0.8   | 25.5                  | 31.5   |
| 30      | 27.0                 |       | 31.0                 |        | 28.0                |        | 26.0              |       | 85.0                  |        | -                         |       | -                       |       | NE                      |       | 10.0          |       | 0.8                  |       | 27.0                  |        |
| Total   | 904.0                | 966.0 | 1079.0               | 1202.0 | 924.0               | 1031.0 | 793.0             | 813.0 | 2129.5                | 1742.5 | 0.0                       | 0.0   | 23.0                    | 37.3  |                         |       | 205.8         | 43.0  | 58.0                 | 85.0  | 820.5                 | 1002.5 |
| Average | 30.1                 | 32.2  | 36.0                 | 40.1   | 30.8                | 34.4   | 26.4              | 27.1  | 71.0                  | 58.1   | 0.0                       | 0.0   | 0.8                     | 1.2   |                         |       |               |       |                      |       | 27.4                  | 33.4   |
|         | 31.2                 |       | 38.0                 |        | 32.6                |        | 26.8              |       | 64.5                  |        | 0.0                       |       | 1.0                     |       |                         |       | 248.8         |       | 143.1                |       | 30.4                  |        |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Jul-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 29.0  |                      | 33.0   |                     | 28.0  |                   | 26.0  |                       | 85.0   |                           | 0.0   |                         | 0.8   |                         | NW    |               | -     |                      | 2.5   |                       | 28.5  |
| 1       | 27.0                 | 27.0  | 32.0                 | 32.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | -                         | -     | 1.2                     | 1.0   | NE                      | NE    | -             | 0.2   | 1.0                  | 0.6   | 26.0                  | 28.5  |
| 2       | 27.0                 | 26.0  | 31.0                 | 30.0   | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0   | 0.0                       | 0.0   | 3.4                     | 2.2   | NW                      | NE    | 10.2          | 2.6   | 5.0                  | 1.3   | 24.5                  | 28.5  |
| 3       | 26.0                 | 26.0  | 29.0                 | 32.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | 0.0   | 3.4                     | 0.6   | NE                      | NE    | 35.6          | 0.6   | 16.6                 | 2.8   | 25.5                  | 28.0  |
| 4       | 28.0                 | 27.0  | 32.0                 | 30.0   | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | -                         | -     | 1.3                     | 2.1   | SE                      | SE    | 0.6           | -     | 0.6                  | 0.4   | 24.5                  | 31.0  |
| 5       | 27.0                 | 28.0  | 32.0                 | 33.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 0.0                       | 0.0   | 1.4                     | 2.4   | NE                      | SW    | 51.2          | -     | 1.3                  | 1.5   | 25.5                  | 33.0  |
| 6       | 27.0                 | 28.0  | 30.0                 | 35.0   | 28.0                | 30.0  | 25.0              | 26.0  | 77.0                  | 72.0   | 0.0                       | -     | 0.4                     | 1.0   | SE                      | SW    | -             | -     | 46.0                 | 1.6   | 37.5                  | 35.0  |
| 7       | 30.0                 | 31.0  | 32.0                 | 38.0   | 30.0                | 33.0  | 26.0              | 28.0  | 72.0                  | 76.5   | -                         | 0.0   | 0.3                     | 0.7   | NE                      | SW    | -             | 8.2   | 2.0                  | 2.0   | 28.0                  | 34.0  |
| 8       | 30.0                 | 32.0  | 34.0                 | 40.0   | 31.0                | 31.0  | 27.0              | 28.0  | 72.5                  | 78.5   | -                         | -     | 0.2                     | 89.0  | NE                      | SW    | -             | -     | 2.0                  | 6.0   | 28.5                  | 33.0  |
| 9       | 31.0                 | 31.0  | 32.0                 | 35.0   | 30.0                | 31.0  | 27.0              | 27.0  | 78.0                  | 72.5   | 0.0                       | -     | 0.3                     | 1.4   | NW                      | NW    | -             | 3.4   | 35.0                 | 1.2   | 24.5                  | 27.0  |
| 10      | 32.0                 | 24.0  | 32.0                 | 35.0   | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | 0.0                       | -     | 0.5                     | 0.9   | NE                      | NW    | 18.0          | -     | 14.3                 | 2.9   | 24.0                  | 27.5  |
| 11      | 26.0                 | 26.0  | 27.0                 | 29.0   | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 0.0                       | -     | 0.3                     | 1.6   | NE                      | NE    | 11.0          | 1.2   | 8.8                  | 0.8   | 24.5                  | 32.5  |
| 12      | 27.0                 | 27.0  | 28.0                 | 33.0   | 26.0                | 30.0  | 25.0              | 26.0  | 92.0                  | 72.0   | 0.0                       | 0.0   | 0.2                     | 1.2   | NE                      | NE    | 4.4           | -     | 3.1                  | -     | 26.0                  | 33.0  |
| 13      | 27.0                 | 28.0  | 31.0                 | 34.0   | 28.0                | 31.0  | 25.0              | 26.0  | 77.0                  | 66.0   | -                         | -     | 2.0                     | 1.6   | NE                      | NE    | -             | 1.8   | 1.5                  | 1.4   | 26.5                  | 31.5  |
| 14      | 29.0                 | 28.0  | 31.0                 | 34.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 0.0                       | -     | 0.6                     | 2.0   | NE                      | NE    | -             | -     | 1.0                  | 0.4   | 26.0                  | 33.5  |
| 15      | 27.0                 | 28.0  | 31.0                 | 35.0   | 27.0                | 32.0  | 25.0              | 28.0  | 84.0                  | 73.0   | 0.0                       | 0.0   | 0.2                     | 0.6   | NE                      | NE    | -             | 0.6   | 0.8                  | 1.1   | 26.0                  | 31.0  |
| 16      | 28.0                 | 28.0  | 32.0                 | 32.0   | 26.0                | 30.0  | 25.0              | 28.0  | 92.0                  | 85.0   | 0.0                       | -     | 0.7                     | 0.7   | SE                      | NE    | 1.8           | -     | 1.0                  | 0.6   | 25.0                  | 33.5  |
| 17      | 27.0                 | 28.0  | 29.0                 | 35.0   | 27.0                | 32.0  | 26.0              | 28.0  | 92.0                  | 73.0   | -                         | -     | 0.2                     | 0.4   | SE                      | SW    | 64.0          | 0.2   | 58.0                 | 0.6   | 27.0                  | 32.0  |
| 18      | 28.0                 | 28.0  | 35.0                 | 34.0   | 29.0                | 31.0  | 27.0              | 27.0  | 85.0                  | 72.5   | -                         | 0.0   | 0.2                     | 1.1   | SW                      | SW    | 6.8           | 8.2   | 4.2                  | 1.2   | 27.0                  | 32.0  |
| 19      | 28.0                 | 30.0  | 36.0                 | 36.0   | 30.0                | 28.0  | 27.0              | 26.0  | 78.0                  | 85.0   | 0.0                       | -     | 0.9                     | 0.3   | SW                      | NE    | -             | -     | 1.8                  | 3.7   | 26.0                  | 29.5  |
| 20      | 28.0                 | 28.0  | 31.0                 | 34.0   | 35.0                | 29.0  | 27.0              | 26.0  | 52.0                  | 78.0   | -                         | -     | 1.8                     | 4.5   | NE                      | NE    | 14.4          | -     | 12.0                 | 0.5   | 25.0                  | 31.5  |
| 21      | 27.0                 | 27.0  | 29.0                 | 32.0   | 27.0                | 30.0  | 26.0              | 26.0  | 92.0                  | 72.0   | 0.0                       | -     | 1.2                     | 2.5   | NE                      | NE    | 29.0          | -     | 28.0                 | 2.0   | 27.0                  | 30.5  |
| 22      | 28.0                 | 30.0  | 31.0                 | 32.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 0.0                       | 0.0   | 0.5                     | 2.8   | NE                      | NE    | 0.6           | 1.2   | 0.3                  | 0.2   | 24.0                  | 27.5  |
| 23      | 28.0                 | 28.0  | 30.0                 | 30.0   | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | -                         | -     | 0.2                     | 2.6   | NE                      | NE    | 1.0           | -     | 0.9                  | 0.3   | 24.0                  | 27.5  |
| 24      | 26.0                 | 27.0  | 28.0                 | 31.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 1.4                     | 1.0   | NE                      | NE    | 8.8           | -     | 6.4                  | 1.0   | 24.5                  | 29.0  |
| 25      | 27.0                 | 27.0  | 32.0                 | 32.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -                         | -     | 1.6                     | 1.4   | SE                      | NE    | -             | -     | 1.4                  | 0.7   | 24.5                  | 28.0  |
| 26      | 27.0                 | 27.0  | 29.0                 | 30.0   | 26.0                | 27.0  | 24.0              | 25.0  | 84.0                  | 84.0   | -                         | -     | 1.7                     | 5.6   | SE                      | NE    | -             | -     | 0.9                  | 0.7   | 24.5                  | 29.0  |
| 27      | 28.0                 | 27.0  | 30.0                 | 31.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 85.0   | -                         | -     | 4.8                     | 5.5   | SE                      | NE    | 2.2           | 1.0   | 0.4                  | 0.8   | 25.5                  | 31.0  |
| 28      | 27.0                 | 27.0  | 29.0                 | 33.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -                         | -     | 0.7                     | 2.8   | SE                      | NE    | -             | -     | 0.9                  | 0.5   | 25.5                  | 33.0  |
| 29      | 27.0                 | 30.0  | 30.0                 | 35.0   | 27.0                | 31.0  | 26.0              | 26.0  | 78.0                  | 66.0   | -                         | -     | 0.2                     | 2.5   | NE                      | NE    | -             | -     | 0.5                  | 3.5   | 26.5                  | 32.5  |
| 30      | 28.0                 | 29.0  | 32.0                 | 36.0   | 29.0                | 32.0  | 26.0              | 28.0  | 78.0                  | 76.0   | -                         | -     | 0.3                     | 0.2   | SE                      | SW    | -             | -     | 1.6                  | 0.2   | 25.5                  | 33.0  |
| 31      | 28.0                 |       | 33.0                 |        | 28.0                |       | 26.0              |       | 85.0                  |        | -                         |       | 0.1                     |       | SW                      |       | 41.6          |       | 36.8                 |       | 26.5                  |       |
| Total   | 861.0                | 867.0 | 960.0                | 1031.0 | 862.0               | 912.0 | 794.0             | 818.0 | 2579.5                | 2446.0 | 0.0                       | 0.0   | 31.7                    | 143.0 |                         |       | 301.2         | 29.2  | 294.1                | 43.0  | 805.5                 | 955.0 |
| Average | 27.8                 | 28.0  | 31.0                 | 33.3   | 27.8                | 29.4  | 25.6              | 26.4  | 83.2                  | 78.9   | 0.0                       | 0.0   | 1.0                     | 4.6   |                         |       |               |       |                      |       | 26.0                  | 30.8  |
|         | 27.9                 |       | 32.1                 |        | 28.6                |       | 26.0              |       | 81.1                  |        | 0.0                       |       | 2.8                     |       |                         |       | 330.4         |       | 337.1                |       | 28.4                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Aug-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 30.0  |                      | 36.0   |                     | 32.0  |                   | 26.0  |                       | 61.0   |                           | -     |                         | 0.3   |                         | SE    |               | ..    |                      | 2.5   |                       | 32.0  |
| 1       | 27.0                 | 29.0  | 34.0                 | 36.0   | 29.0                | 31.0  | 27.0              | 27.0  | 85.0                  | 72.5   | -                         | -     | 0.2                     | 1.1   | NE                      | SE    | 1.8           | -     | 24.0                 | 2.0   | 26.5                  | 34.0  |
| 2       | 28.0                 | 29.0  | 32.0                 | 35.0   | 30.0                | 29.0  | 27.0              | 28.0  | 78.0                  | 92.0   | -                         | -     | 0.3                     | 0.1   | SE                      | SE    | 1.2           | -     | 0.5                  | 2.0   | 28.0                  | 35.0  |
| 3       | 29.0                 | 30.0  | 34.0                 | 36.0   | 28.0                | 30.0  | 26.0              | 29.0  | 85.0                  | 93.0   | -                         | -     | 0.8                     | 0.4   | NE                      | NE    | 17.4          | 0.8   | 16.0                 | 4.0   | 27.0                  | 36.0  |
| 4       | 28.0                 | 31.0  | 33.0                 | 37.0   | 29.0                | 31.0  | 26.0              | 30.0  | 78.0                  | 93.0   | -                         | -     | 0.9                     | 1.2   | SE                      | NE    | 1.6           | 11.8  | 2.0                  | 2.0   | 26.5                  | 32.0  |
| 5       | 28.0                 | 28.0  | 35.0                 | 33.0   | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.5   | SE                      | NE    | 1.0           | -     | 2.0                  | 8.8   | 26.0                  | 30.0  |
| 6       | 28.0                 | 28.0  | 29.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 0.4   | NW                      | NE    | 0.2           | 5.2   | -                    | 1.5   | 26.0                  | 32.0  |
| 7       | 27.0                 | 27.0  | 31.0                 | 33.0   | 27.0                | 29.0  | 26.0              | 26.0  | 92.0                  | 78.0   | -                         | -     | 0.5                     | 0.6   | SE                      | NE    | 4.4           | 4.6   | 4.0                  | 4.0   | 25.5                  | 31.0  |
| 8       | 27.0                 | 30.0  | 31.0                 | 32.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 0.9   | NE                      | NE    | -             | -     | 1.8                  | 4.0   | 27.0                  | 30.0  |
| 9       | 28.0                 | 28.0  | 29.0                 | 31.0   | 27.0                | 29.0  | 26.0              | 26.0  | 84.0                  | 78.0   | -                         | -     | 0.5                     | 2.7   | SE                      | SE    | 1.6           | -     | -                    | 2.0   | 27.0                  | 31.5  |
| 10      | 27.0                 | 27.0  | 30.0                 | 30.0   | 27.0                | 29.0  | 26.0              | 26.0  | 84.0                  | 78.0   | -                         | -     | 2.2                     | 2.4   | NE                      | NE    | -             | -     | 1.5                  | -     | 26.0                  | 29.5  |
| 11      | 27.0                 | 28.0  | 30.0                 | 29.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.4                     | 0.3   | NE                      | SE    | 1.6           | -     | 2.0                  | 3.1   | 25.5                  | 30.0  |
| 12      | 28.0                 | 29.0  | 31.0                 | 33.0   | 28.0                | 31.0  | 26.0              | 29.0  | 85.0                  | 85.5   | -                         | -     | 2.3                     | 1.3   | NE                      | SE    | -             | -     | -                    | 1.0   | 26.5                  | 31.0  |
| 13      | 27.0                 | 29.0  | 30.0                 | 35.0   | 27.0                | 32.0  | 25.0              | 28.0  | 84.0                  | 73.0   | -                         | -     | 0.7                     | 1.0   | SE                      | SE    | -             | 12.6  | 1.0                  | 0.7   | 26.0                  | 33.0  |
| 14      | 28.0                 | 28.0  | 33.0                 | 36.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.7                     | 1.0   | SE                      | NE    | -             | -     | 2.0                  | 10.0  | 26.5                  | 33.0  |
| 15      | 28.0                 | 31.0  | 30.0                 | 36.0   | 30.0                | 31.0  | 27.0              | 27.0  | 78.0                  | 72.5   | -                         | -     | 0.3                     | 0.2   | NE                      | SE    | 11.0          | -     | 4.7                  | 1.2   | 28.0                  | 34.5  |
| 16      | 28.0                 | 28.0  | 33.0                 | 34.0   | 29.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 72.5   | -                         | -     | 0.7                     | 0.3   | SE                      | SE    | -             | 2.6   | 2.0                  | -     | 27.0                  | 32.5  |
| 17      | 28.0                 | 27.0  | 32.0                 | 32.0   | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 0.5   | SE                      | SE    | 4.0           | -     | 1.4                  | 2.5   | 25.0                  | 28.0  |
| 18      | 27.0                 | 27.0  | 29.0                 | 32.0   | 27.0                | 30.0  | 25.0              | 29.0  | 84.0                  | 93.0   | -                         | -     | 0.2                     | 0.4   | SE                      | SW    | 0.2           | 0.2   | 0.9                  | 0.8   | 25.0                  | 29.0  |
| 19      | 27.0                 | 29.0  | 30.0                 | 35.0   | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | -                         | -     | 0.9                     | 1.7   | SE                      | NW    | 6.8           | -     | 5.5                  | 0.9   | 24.5                  | 30.5  |
| 20      | 27.0                 | 28.0  | 30.0                 | 34.0   | 27.0                | 31.0  | 26.0              | 27.0  | 92.0                  | 72.5   | -                         | -     | 1.8                     | 1.9   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 25.0                  | 31.0  |
| 21      | 28.0                 | 28.0  | 31.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -                         | -     | 0.1                     | 0.1   | SW                      | NW    | 9.4           | -     | 8.6                  | 1.4   | 26.0                  | 33.5  |
| 22      | 27.0                 | 29.0  | 31.0                 | 34.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.5   | -                         | -     | 0.1                     | 0.4   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 32.5  |
| 23      | 30.0                 | 31.0  | 32.0                 | 37.0   | 29.0                | 33.0  | 26.0              | 29.0  | 78.0                  | 73.5   | -                         | -     | 0.0                     | 0.4   | NE                      | SE    | -             | 19.0  | -                    | 1.6   | 27.0                  | 34.5  |
| 24      | 28.0                 | 29.0  | 34.0                 | 33.0   | 28.0                | 28.0  | 26.0              | 25.0  | 85.0                  | 77.0   | -                         | -     | 0.2                     | 0.9   | SE                      | NE    | 20.4          | -     | 16.8                 | 16.4  | 26.0                  | 30.5  |
| 25      | 27.0                 | 28.0  | 29.0                 | 35.0   | 29.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 72.5   | -                         | -     | 0.1                     | 0.0   | NE                      | NE    | 0.2           | -     | -                    | 1.5   | 26.0                  | 34.0  |
| 26      | 27.0                 | 29.0  | 32.0                 | 35.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.0                     | 0.0   | SE                      | NE    | 26.0          | 1.0   | 18.0                 | 10.0  | 27.0                  | 33.5  |
| 27      | 28.0                 | 29.0  | 31.0                 | 35.0   | 30.0                | 30.0  | 27.0              | 28.0  | 78.0                  | 85.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | 11.6  | -                    | 3.6   | 26.5                  | 31.0  |
| 28      | 28.0                 | 29.0  | 31.0                 | 33.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | -                         | -     | 0.1                     | 1.0   | SW                      | SW    | 5.8           | -     | 6.0                  | 12.0  | 26.5                  | 29.0  |
| 29      | 27.0                 | 27.0  | 28.0                 | 33.0   | 26.0                | 30.0  | 25.0              | 26.0  | 92.0                  | 72.0   | -                         | -     | 1.6                     | 1.2   | NW                      | NW    | 1.2           | 7.8   | 2.0                  | 0.8   | 25.0                  | 32.0  |
| 30      | 27.0                 | 29.0  | 31.0                 | 34.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.5   | -                         | 0.0   | 0.5                     | 0.2   | NW                      | SW    | -             | ..    | 2.0                  | 6.5   | 26.0                  | 33.0  |
| 31      | 30.0                 |       | 30.0                 |        | 28.0                |       | 26.0              |       | 85.0                  |        | -                         |       | 0.1                     |       | NE                      |       | -             |       | 1.0                  |       | 27.0                  |       |
| Total   | 859.0                | 889.0 | 966.0                | 1052.0 | 867.0               | 927.0 | 805.0             | 842.0 | 2615.0                | 2493.5 | -                         | 0.0   | 16.8                    | 23.6  |                         |       | 115.8         | 77.2  | 128.7                | 110.3 | 814.5                 | 989.0 |
| Average | 27.7                 | 28.7  | 31.2                 | 33.9   | 28.0                | 29.9  | 26.0              | 27.2  | 84.4                  | 80.4   | -                         | 0.0   | 0.5                     | 0.8   |                         |       |               |       |                      |       | 26.3                  | 31.9  |
|         | 28.2                 |       | 32.5                 |        | 28.9                |       | 26.6              |       | 82.4                  |        | 0.0                       |       | 0.7                     |       |                         |       | 193.0 *       |       | 239.0                |       | 29.1                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Sep-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 32.0  |                      | 31.0   |                     | 28.0  |                   | 26.0  |                       | 85.0   |                           | 0.0   |                         | 0.6   |                         | NE    |               | ..    |                      | 1.0   |                       | 29.0  |
| 1       | 27.0                 | 29.0  | 29.0                 | 32.0   | 29.0                | 30.0  | 27.0              | 26.0  | 85.0                  | 75.0   | -                         | -     | 0.1                     | 0.9   | NE                      | NW    | -             | -     | 1.7                  | 0.7   | 26.5                  | 33.5  |
| 2       | 29.0                 | 29.0  | 31.0                 | 31.0   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 0.4   | NE                      | NW    | 8.2           | -     | 6.0                  | -     | 26.5                  | 29.5  |
| 3       | 27.0                 | 29.0  | 29.0                 | 32.0   | 29.0                | 29.0  | 24.0              | 27.0  | 78.0                  | 85.0   | -                         | -     | 0.1                     | 0.4   | NE                      | SE    | -             | -     | 1.6                  | 1.7   | 26.0                  | 34.0  |
| 4       | 28.0                 | 30.0  | 34.0                 | 37.0   | 29.0                | 32.0  | 26.0              | 29.0  | 78.0                  | 79.0   | -                         | 2.0   | 0.2                     | 0.3   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 26.5                  | 24.5  |
| 5       | 28.0                 | 31.0  | 34.0                 | 39.0   | 30.0                | 34.0  | 28.0              | 30.0  | 85.0                  | 74.0   | -                         | -     | 0.2                     | 0.2   | SE                      | SE    | -             | -     | 3.2                  | 2.8   | 27.0                  | 34.0  |
| 6       | 30.0                 | 33.0  | 35.0                 | 40.0   | 32.0                | 32.0  | 28.0              | 28.0  | 73.0                  | 73.0   | -                         | 4.0   | 0.1                     | 0.1   | SE                      | SE    | -             | -     | 2.0                  | 2.5   | 27.0                  | 33.5  |
| 7       | 30.0                 | 31.0  | 35.0                 | 39.0   | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | -                         | -     | 0.1                     | 0.2   | NW                      | NE    | -             | -     | 1.3                  | 2.0   | 27.0                  | 32.5  |
| 8       | 30.0                 | 32.0  | 33.0                 | 37.0   | 30.0                | 31.0  | 27.0              | 27.0  | 73.0                  | 72.5   | -                         | 2.0   | 0.0                     | 0.4   | SE                      | NE    | -             | -     | 0.8                  | 2.0   | 27.5                  | 33.0  |
| 9       | 28.0                 | 29.0  | 32.0                 | 35.0   | 29.0                | 30.0  | 27.0              | 29.0  | 85.0                  | 93.0   | -                         | 2.0   | 0.2                     | 0.0   | NW                      | SE    | 28.0          | -     | 25.6                 | 1.0   | 26.0                  | 31.5  |
| 10      | 27.0                 | 28.0  | 30.0                 | 36.0   | 28.0                | 32.0  | 26.0              | 29.0  | 85.0                  | 79.0   | -                         | -     | 0.3                     | 0.1   | SE                      | SW    | 4.4           | 4.8   | 3.4                  | 1.8   | 26.0                  | 33.5  |
| 11      | 30.0                 | 29.0  | 31.0                 | 33.0   | 30.0                | 28.0  | 27.0              | 26.0  | 78.0                  | 85.0   | 2.0                       | -     | -                       | 0.3   | NW                      | SW    | -             | -     | -                    | 4.0   | 28.0                  | 30.0  |
| 12      | 28.0                 | 29.0  | 29.0                 | 36.0   | 28.0                | 32.0  | 25.0              | 28.0  | 77.0                  | 73.0   | -                         | -     | 0.0                     | 0.4   | NE                      | SE    | -             | -     | 0.7                  | 1.4   | 28.5                  | 32.5  |
| 13      | 28.0                 | 28.0  | 32.0                 | 35.0   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | -                         | 2.0   | 0.2                     | 0.4   | NE                      | NE    | -             | -     | 2.0                  | -     | 26.0                  | 31.0  |
| 14      | 28.0                 | 28.0  | 31.0                 | 35.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 75.0   | -                         | -     | 0.3                     | 0.5   | NW                      | NE    | -             | -     | 1.5                  | 1.3   | 25.5                  | 31.5  |
| 15      | 28.0                 | 28.0  | 31.0                 | 36.0   | 27.0                | 32.0  | 25.0              | 29.0  | 84.0                  | 79.0   | -                         | 4.0   | 0.3                     | 0.2   | NE                      | SE    | -             | -     | 0.8                  | 2.0   | 25.5                  | 32.0  |
| 16      | 29.0                 | 30.0  | 32.0                 | 35.0   | 32.0                | 32.0  | 27.0              | 28.0  | 78.0                  | 73.0   | -                         | -     | 0.0                     | 0.5   | NE                      | SE    | -             | 14.4  | 0.8                  | 1.2   | 27.0                  | 31.5  |
| 17      | 29.0                 | 29.0  | 33.0                 | 32.0   | 29.0                | 27.0  | 27.0              | 25.0  | 85.0                  | 84.0   | -                         | -     | 0.1                     | 0.6   | SE                      | SE    | -             | -     | 1.0                  | 12.8  | 27.0                  | 29.0  |
| 18      | 27.0                 | 28.0  | 28.0                 | 33.0   | 28.0                | 27.0  | 26.0              | 24.0  | 85.0                  | 77.0   | -                         | -     | 0.1                     | 0.5   | NE                      | SE    | -             | 10.4  | 1.3                  | -     | 25.0                  | 29.0  |
| 19      | 26.0                 | 27.0  | 29.0                 | 29.0   | 27.0                | 26.0  | 25.0              | 24.0  | 84.0                  | 84.0   | -                         | -     | 0.2                     | 0.1   | NE                      | NE    | 2.8           | 0.6   | 1.8                  | 2.5   | 25.0                  | 25.5  |
| 20      | 26.0                 | 26.0  | 27.0                 | 28.0   | 26.0                | 26.0  | 25.0              | 24.0  | 92.0                  | 84.0   | -                         | -     | 0.7                     | 0.9   | SE                      | NE    | 133.4         | 0.6   | 26.9                 | 2.0   | 23.5                  | 25.5  |
| 21      | 26.0                 | 27.0  | 28.0                 | 31.0   | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | -                         | 2.0   | 0.6                     | 0.2   | NE                      | NW    | 7.2           | 0.6   | 8.0                  | -     | 24.0                  | 28.5  |
| 22      | 27.0                 | 28.0  | 28.0                 | 33.0   | 28.0                | 29.0  | 25.0              | 26.0  | 77.0                  | 78.0   | -                         | -     | 0.0                     | 0.2   | NW                      | NE    | -             | -     | -                    | 1.7   | 25.5                  | 29.5  |
| 23      | 27.0                 | 28.0  | 29.0                 | 33.0   | 27.0                | 31.0  | 24.0              | 27.0  | 77.0                  | 72.5   | -                         | -     | 0.1                     | 0.5   | NE                      | SE    | -             | -     | -                    | 2.0   | 25.0                  | 33.0  |
| 24      | 28.0                 | 29.0  | 32.0                 | 38.0   | 28.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 73.0   | -                         | -     | 0.1                     | 0.2   | NE                      | SE    | -             | -     | 2.0                  | 0.9   | 26.5                  | 33.5  |
| 25      | 28.0                 | 30.0  | 34.0                 | 39.0   | 29.0                | 32.0  | 26.0              | 28.0  | 78.0                  | 72.5   | -                         | -     | 0.0                     | 0.3   | NE                      | NW    | -             | -     | 0.6                  | 2.0   | 26.5                  | 34.0  |
| 26      | 28.0                 | 30.0  | 34.0                 | 39.0   | 29.0                | 32.0  | 26.0              | 28.0  | 78.0                  | 72.0   | -                         | -     | 0.0                     | 0.3   | NW                      | NE    | -             | 14.6  | 2.0                  | 2.0   | 26.5                  | 33.5  |
| 27      | 29.0                 | 31.0  | 34.0                 | 37.0   | 30.0                | 30.0  | 27.0              | 27.0  | 78.0                  | 78.0   | -                         | 2.0   | 0.1                     | 0.0   | NE                      | SW    | -             | 1.4   | -                    | 12.0  | 27.5                  | 32.0  |
| 28      | 28.0                 | 30.0  | 32.0                 | 36.0   | 29.0                | 29.0  | 26.0              | 28.0  | 78.0                  | 85.0   | 2.0                       | -     | 0.1                     | 0.3   | SE                      | NW    | -             | 2.8   | 1.8                  | -     | 26.0                  | 31.0  |
| 29      | 27.0                 | 31.0  | 30.0                 | 38.0   | 30.0                | 30.0  | 28.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.0                     | 0.1   | NE                      | SE    | 2.0           | -     | 0.7                  | 1.5   | 26.0                  | 30.0  |
| 30      | 26.0                 |       | 29.0                 |        | 29.0                |       | 27.0              |       | 85.0                  |        | 4.0                       |       | 0.2                     |       | NE                      |       | 4.2           |       | 2.0                  |       | 26.5                  |       |
| Total   | 837.0                | 879.0 | 935.0                | 1045.0 | 860.0               | 901.0 | 783.0             | 813.0 | 2449.0                | 2373.5 | 8.0                       | 20.0  | 4.6                     | 10.5  |                         |       | 190.2         | 50.2  | 101.5                | 66.8  | 787.0                 | 931.0 |
| Average | 27.9                 | 29.3  | 31.2                 | 34.8   | 28.7                | 30.0  | 26.1              | 27.1  | 81.6                  | 79.1   | 0.3                       | 0.7   | 0.2                     | 0.4   |                         |       |               |       |                      |       | 26.2                  | 31.0  |
|         | 28.6                 |       | 33.0                 |        | 29.4                |       | 26.6              |       | 80.4                  |        | 0.5                       |       | 0.3                     |       |                         |       | 240.4 *       |       | 168.3                |       | 28.6                  |       |

# Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 28.0  |                      | 33.0   |                     | 29.0  |                   | 28.0  |                       | 92.0   |                           | -     | -                       | 0.0   |                         | NW    |               | ..    |                      | 2.0   |                       | 31.5  |
| 1       | 27.0                 | 28.0  | 34.0                 | 35.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 0.1   | SE                      | NE    | -             | -     | 0.6                  | 1.1   | 25.5                  | 30.5  |
| 2       | 26.0                 | 27.0  | 30.0                 | 34.0   | 26.0                | 30.0  | 25.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 0.2   | SE                      | NW    | 2.0           | -     | 0.2                  | 1.5   | 24.5                  | 31.0  |
| 3       | 27.0                 | 27.0  | 31.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 28.0  | 84.0                  | 85.0   | -                         | 0.0   | 0.0                     | 0.4   | NW                      | NW    | -             | -     | 1.1                  | 1.0   | 25.5                  | 31.0  |
| 4       | 28.0                 | 28.0  | 31.0                 | 32.0   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | 1.2   | 0.8                  | 1.2   | 24.5                  | 31.5  |
| 5       | 27.0                 | 28.0  | 31.0                 | 31.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 0.0                       | -     | 0.1                     | 0.5   | NW                      | SE    | -             | 0.8   | 0.8                  | 0.1   | 26.5                  | 31.0  |
| 6       | 27.0                 | 27.0  | 29.0                 | 37.0   | 29.0                | 27.0  | 26.0              | 27.0  | 85.0                  | 84.0   | -                         | -     | 0.1                     | 0.2   | NE                      | SE    | -             | -     | 1.6                  | 1.3   | 26.0                  | 31.0  |
| 7       | 27.0                 | 28.0  | 30.0                 | 35.0   | 28.0                | 29.0  | 26.0              | 25.0  | 85.0                  | 85.0   | -                         | 0.0   | 0.1                     | 0.8   | NW                      | SW    | 1.2           | 1.2   | -                    | 2.0   | 25.5                  | 31.5  |
| 8       | 28.0                 | 27.0  | 31.0                 | 30.0   | 27.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 84.0   | -                         | -     | -                       | 0.1   | SE                      | SW    | -             | -     | 0.8                  | 0.8   | 25.0                  | 28.0  |
| 9       | 27.0                 | 28.0  | 28.0                 | 30.0   | 27.0                | 28.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.1   | NW                      | SW    | -             | -     | -                    | 0.8   | 24.5                  | 29.0  |
| 10      | 27.0                 | 29.0  | 30.0                 | 36.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 78.5   | -                         | -     | 0.0                     | 0.2   | SW                      | SW    | -             | -     | 2.5                  | 1.1   | 26.0                  | 33.0  |
| 11      | 27.0                 | 29.0  | 32.0                 | 37.0   | 27.0                | 31.0  | 25.0              | 28.0  | 84.0                  | 72.5   | -                         | -     | 0.1                     | 0.2   | NW                      | SW    | -             | -     | 1.4                  | 1.9   | 26.0                  | 32.5  |
| 12      | 28.0                 | 29.0  | 32.0                 | 37.0   | 28.0                | 31.0  | 25.0              | 27.0  | 77.0                  | 78.5   | -                         | -     | 0.0                     | 0.4   | NW                      | SW    | -             | -     | 1.2                  | 1.6   | 26.0                  | 33.0  |
| 13      | 29.0                 | 30.0  | 38.0                 | 39.0   | 29.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 67.0   | -                         | -     | 0.0                     | 0.3   | SE                      | SW    | -             | -     | 1.3                  | 1.5   | 27.0                  | 32.5  |
| 14      | 29.0                 | 31.0  | 33.0                 | 39.0   | 30.0                | 32.0  | 27.0              | 27.0  | 78.0                  | 73.0   | -                         | -     | 0.1                     | 0.1   | NW                      | SW    | -             | -     | 1.3                  | 1.5   | 27.5                  | 32.5  |
| 15      | 30.0                 | 30.0  | 33.0                 | 39.0   | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.5   | -                         | -     | 0.0                     | 0.1   | NE                      | SW    | -             | -     | -                    | 1.0   | 27.5                  | 32.5  |
| 16      | 27.0                 | 27.0  | 33.0                 | 38.0   | 27.0                | 31.0  | 25.0              | 28.0  | 84.0                  | 66.0   | -                         | -     | 0.1                     | 0.3   | NE                      | SW    | -             | -     | 2.0                  | 1.5   | 26.5                  | 31.0  |
| 17      | 26.0                 | 27.0  | 33.0                 | 39.0   | 26.0                | 31.0  | 23.0              | 26.0  | 76.0                  | 54.0   | -                         | -     | 0.0                     | 0.3   | NE                      | SE    | -             | -     | 1.3                  | 2.0   | 25.0                  | 30.0  |
| 18      | 25.0                 | 26.0  | 32.0                 | 32.0   | 25.0                | 31.0  | 23.0              | 24.0  | 84.0                  | 60.0   | -                         | -     | 0.1                     | 0.2   | NW                      | SE    | -             | -     | 1.7                  | 1.9   | 24.5                  | 30.5  |
| 19      | 27.0                 | 29.0  | 31.0                 | 36.0   | 28.0                | 30.0  | 25.0              | 25.0  | 77.0                  | 78.0   | -                         | -     | 0.0                     | 0.9   | NW                      | SE    | -             | -     | -                    | 1.2   | 24.5                  | 29.5  |
| 20      | 28.0                 | 30.0  | 31.0                 | 36.0   | 28.0                | 31.0  | 25.0              | 27.0  | 77.0                  | 66.0   | -                         | -     | 0.1                     | 0.5   | SE                      | SW    | -             | -     | 0.8                  | 1.1   | 25.5                  | 29.0  |
| 21      | 27.0                 | 29.0  | 32.0                 | 39.0   | 28.0                | 31.0  | 25.0              | 26.0  | 77.0                  | 72.5   | -                         | -     | 0.0                     | 0.8   | NE                      | SW    | -             | -     | 1.4                  | 1.7   | 25.5                  | 31.5  |
| 22      | 28.0                 | 30.0  | 32.0                 | 30.0   | 27.0                | 30.0  | 24.0              | 27.0  | 75.0                  | 85.0   | -                         | -     | 0.1                     | 0.1   | NE                      | SW    | -             | -     | 1.5                  | 1.9   | 25.5                  | 30.0  |
| 23      | 27.0                 | 28.0  | 31.0                 | 33.0   | 27.0                | 31.0  | 25.0              | 28.0  | 84.0                  | 85.0   | -                         | -     | 0.0                     | 0.0   | NW                      | NW    | -             | -     | 1.9                  | 1.6   | 25.0                  | 30.0  |
| 24      | 27.0                 | 28.0  | 32.0                 | 34.0   | 27.0                | 31.0  | 25.0              | 28.0  | 84.0                  | 60.0   | -                         | -     | 0.0                     | 0.1   | NW                      | SE    | -             | -     | -                    | 1.4   | 25.5                  | 30.5  |
| 25      | 27.0                 | 26.0  | 31.0                 | 38.0   | 27.0                | 29.0  | 25.0              | 25.0  | 84.0                  | 72.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SW    | -             | -     | 1.1                  | 1.4   | 24.5                  | 30.0  |
| 26      | 26.0                 | 27.0  | 32.0                 | 37.0   | 26.0                | 29.0  | 23.0              | 25.0  | 76.0                  | 64.0   | -                         | -     | 0.0                     | 0.1   | NW                      | SW    | -             | -     | 2.0                  | 2.1   | 22.0                  | 29.0  |
| 27      | 26.0                 | 26.0  | 31.0                 | 37.0   | 25.0                | 28.0  | 22.0              | 24.0  | 76.0                  | 85.0   | -                         | -     | 0.0                     | 0.1   | NW                      | SE    | -             | -     | 1.6                  | 0.6   | 22.5                  | 28.5  |
| 28      | 26.0                 | 27.0  | 30.0                 | 36.0   | 29.0                | 26.0  | 25.0              | 26.0  | 71.0                  | 84.0   | -                         | -     | 0.0                     | 0.0   | W                       | SW    | -             | -     | 1.1                  | 1.5   | 23.0                  | 27.5  |
| 29      | 27.0                 | 26.0  | 30.0                 | 30.0   | 28.0                | 25.0  | 24.0              | 23.0  | 70.0                  | 84.0   | -                         | -     | 0.1                     | 0.0   | NW                      | SE    | -             | -     | 1.3                  | 1.1   | 23.5                  | 27.0  |
| 30      | 24.0                 | 24.0  | 31.0                 | 35.0   | 24.0                | 29.0  | 21.0              | 24.0  | 75.0                  | 64.0   | -                         | -     | 0.0                     | 0.1   | SE                      | NW    | -             | -     | 1.6                  | 1.8   | 22.5                  | 27.0  |
| 31      | 24.0                 |       | 29.0                 |        | 25.0                |       | 22.0              |       | 76.0                  |        | -                         |       | 0.1                     |       | NW                      |       | -             |       | 0.5                  |       | 27.0                  |       |
| Total   | 836.0                | 864.0 | 974.0                | 1088.0 | 844.0               | 920.0 | 768.0             | 823.0 | 2524.0                | 2375.5 | 0.0                       | 0.0   | 1.4                     | 7.3   |                         |       | 3.2           | 3.2   | 33.4                 | 43.2  | 780.0                 | 943.0 |
| Average | 27.0                 | 27.9  | 31.4                 | 35.1   | 27.2                | 29.7  | 24.8              | 26.5  | 81.4                  | 76.6   | 0.0                       | 0.0   | 0.0                     | 0.2   |                         |       |               |       |                      |       | 25.2                  | 30.4  |
|         | 27.4                 |       | 33.3                 |        | 28.5                |       | 25.7              |       | 79.0                  |        | 0.0                       |       | 0.1                     |       |                         |       | 6.4 *         |       | 76.6                 |       | 27.8                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Nov-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 25.0  |                      | 35.0   |                     | 27.0  |                   | 23.0  |                       | 70.0   |                           | -     |                         | 0.2   |                         | SW    |               | ..    |                      | 1.2   |                       | 27.5  |
| 1       | 23.0                 | 24.0  | 29.0                 | 34.0   | 23.0                | 27.0  | 20.0              | 22.0  | 75.0                  | 63.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SE    | -             | -     | 1.3                  | 0.8   | 20.0                  | 27.0  |
| 2       | 23.0                 | 23.0  | 29.0                 | 34.0   | 23.0                | 27.0  | 20.0              | 22.0  | 75.0                  | 63.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SE    | -             | -     | 1.3                  | 0.5   | 20.0                  | 27.0  |
| 3       | 22.0                 | 23.0  | 28.0                 | 33.0   | 22.0                | 27.0  | 19.0              | 23.0  | 74.0                  | 70.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SW    | -             | -     | 1.9                  | 0.6   | 19.0                  | 27.0  |
| 4       | 22.0                 | 23.0  | 28.0                 | 34.0   | 22.0                | 26.0  | 19.0              | 22.0  | 74.0                  | 69.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SE    | -             | -     | 1.3                  | 1.5   | 19.0                  | 26.5  |
| 5       | 21.0                 | 23.0  | 28.0                 | 35.0   | 22.0                | 27.0  | 19.0              | 22.0  | 74.0                  | 63.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SW    | -             | -     | 0.7                  | 1.4   | 18.5                  | 27.0  |
| 6       | 23.0                 | 23.0  | 29.0                 | 35.0   | 23.0                | 28.0  | 20.0              | 22.0  | 75.0                  | 57.0   | -                         | -     | -                       | 0.3   | NW                      | SW    | -             | -     | 1.3                  | 1.5   | 20.0                  | 27.5  |
| 7       | 23.0                 | 23.0  | 29.0                 | 36.0   | 22.0                | 29.0  | 20.0              | 22.0  | 82.0                  | 52.0   | -                         | -     | -                       | 0.1   | NW                      | SW    | -             | -     | 0.9                  | 1.7   | 19.5                  | 28.0  |
| 8       | 22.0                 | 23.0  | 30.0                 | 36.0   | 23.0                | 28.0  | 20.0              | 22.0  | 75.0                  | 57.0   | -                         | -     | 0.0                     | 0.1   | NW                      | SE    | -             | -     | 1.6                  | 1.0   | 20.0                  | 28.0  |
| 9       | 22.0                 | 22.0  | 30.0                 | 37.0   | 21.0                | 27.0  | 19.0              | 21.0  | 82.0                  | 56.0   | -                         | -     | 0.0                     | 0.1   | NE                      | SW    | -             | -     | 1.4                  | 1.5   | 20.0                  | 26.5  |
| 10      | 20.0                 | 20.0  | 28.0                 | 35.0   | 20.0                | 26.0  | 17.0              | 22.0  | 73.0                  | 69.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | -     | 1.1                  | 1.5   | 17.0                  | 25.5  |
| 11      | 20.0                 | 21.0  | 28.0                 | 33.0   | 20.0                | 25.0  | 18.0              | 19.0  | 81.0                  | 54.0   | -                         | -     | -                       | 0.2   | SW                      | SW    | -             | -     | 2.0                  | 1.2   | 17.0                  | 24.5  |
| 12      | 19.0                 | 21.0  | 26.0                 | 33.0   | 20.0                | 26.0  | 17.0              | 21.0  | 73.0                  | 62.0   | -                         | -     | -                       | 0.0   | NW                      | SW    | -             | -     | 0.9                  | 1.1   | 17.5                  | 25.0  |
| 13      | 20.0                 | 22.0  | 27.0                 | 34.0   | 21.0                | 27.0  | 18.0              | 21.0  | 73.0                  | 53.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SW    | -             | -     | 1.1                  | 1.3   | 18.0                  | 26.5  |
| 14      | 21.0                 | 23.0  | 28.0                 | 33.0   | 21.0                | 27.0  | 19.0              | 22.0  | 82.0                  | 63.0   | -                         | -     | 0.0                     | 0.4   | NW                      | NW    | -             | 1.4   | 1.2                  | 0.6   | 18.5                  | 26.5  |
| 15      | 24.0                 | 25.0  | 28.0                 | 27.0   | 23.0                | 23.0  | 20.0              | 21.0  | 75.0                  | 75.0   | -                         | -     | 0.0                     | 1.0   | NW                      | SW    | -             | -     | 3.0                  | 2.0   | 20.5                  | 23.0  |
| 16      | 21.0                 | 23.0  | 25.0                 | 30.0   | 23.0                | 25.0  | 21.0              | 22.0  | 83.0                  | 76.0   | -                         | -     | 1.3                     | 0.1   | NW                      | NW    | -             | -     | 1.2                  | 0.9   | 20.0                  | 24.0  |
| 17      | 23.0                 | 24.0  | 26.0                 | 31.0   | 23.0                | 26.0  | 21.0              | 23.0  | 83.0                  | 76.0   | -                         | -     | 0.2                     | 0.2   | NW                      | SW    | -             | -     | 1.1                  | -     | 21.5                  | 25.5  |
| 18      | 23.0                 | 24.0  | 27.0                 | 32.0   | 23.0                | 28.0  | 21.0              | 24.0  | 83.0                  | 70.0   | -                         | -     | -                       | 0.1   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 21.5                  | 25.5  |
| 19      | 23.0                 | 24.0  | 29.0                 | 35.0   | 23.0                | 28.0  | 22.0              | 24.0  | 91.0                  | 70.0   | -                         | -     | 0.0                     | 0.1   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 21.5                  | 26.5  |
| 20      | 24.0                 | 25.0  | 28.0                 | 36.0   | 23.0                | 29.0  | 22.0              | 23.0  | 91.0                  | 58.0   | -                         | -     | 0.0                     | 0.1   | SW                      | NE    | -             | -     | 0.8                  | -     | 22.0                  | 29.5  |
| 21      | 24.0                 | 22.0  | 29.0                 | 29.0   | 23.0                | 27.0  | 21.0              | 21.0  | 83.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 0.6                  | 0.7   | 21.5                  | 28.0  |
| 22      | 21.0                 | 22.0  | 29.0                 | 33.0   | 21.0                | 26.0  | 18.0              | 20.0  | 73.0                  | 55.0   | -                         | -     | 0.0                     | 0.1   | SW                      | SW    | -             | -     | 2.0                  | 0.5   | 20.0                  | 25.0  |
| 23      | 20.0                 | 28.0  | 27.0                 | 33.0   | 20.0                | 27.0  | 17.0              | 21.0  | 73.0                  | 53.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | -     | 1.4                  | 0.6   | 21.5                  | 25.0  |
| 24      | 20.0                 | 20.0  | 28.0                 | 39.0   | 19.0                | 24.0  | 16.0              | 17.0  | 72.0                  | 46.0   | -                         | -     | 0.0                     | 0.2   | SE                      | SW    | -             | -     | 1.7                  | 0.7   | 16.5                  | 25.0  |
| 25      | 17.0                 | 18.0  | 26.0                 | 33.0   | 17.0                | 25.0  | 14.0              | 18.0  | 70.0                  | 47.0   | -                         | -     | 0.1                     | 0.1   | NW                      | SW    | -             | -     | 1.3                  | 1.0   | 14.5                  | 23.5  |
| 26      | 17.0                 | 18.0  | 26.0                 | 33.0   | 17.0                | 25.0  | 15.0              | 19.0  | 80.0                  | 54.0   | -                         | -     | -                       | 0.0   | NW                      | NW    | -             | -     | 2.0                  | -     | 14.5                  | 24.0  |
| 27      | 18.0                 | 19.0  | 26.0                 | 33.0   | 18.0                | 24.0  | 15.0              | 17.0  | 71.0                  | 46.0   | -                         | -     | 0.0                     | 0.0   | SE                      | SW    | -             | -     | 1.4                  | 0.9   | 15.0                  | 24.0  |
| 28      | 18.0                 | 18.0  | 26.0                 | 33.0   | 17.0                | 26.0  | 14.0              | 20.0  | 70.0                  | 55.0   | -                         | -     | 0.0                     | 0.2   | SE                      | NW    | -             | -     | 1.4                  | 0.8   | 14.5                  | 24.0  |
| 29      | 17.0                 | 19.0  | 28.0                 | 33.0   | 18.0                | 26.0  | 15.0              | 20.0  | 71.0                  | 45.0   | -                         | -     | 0.0                     | 0.0   | NW                      | NW    | -             | -     | 1.7                  | -     | 14.5                  | 24.5  |
| 30      | 17.0                 |       | 26.0                 |        | 18.0                |       | 16.0              |       | 80.0                  |        | -                         |       | 0.0                     |       | NW                      |       | -             |       | 2.0                  |       | 15.5                  |       |
| Total   | 628.0                | 668.0 | 831.0                | 1007.0 | 629.0               | 793.0 | 553.0             | 636.0 | 2317.0                | 1800.0 | -                         | -     | 1.8                     | 5.4   |                         |       | -             | 1.4   | 40.6                 | 27.5  | 559.0                 | 777.0 |
| Average | 20.9                 | 22.3  | 27.7                 | 33.6   | 21.0                | 26.4  | 18.4              | 21.2  | 77.2                  | 60.0   | -                         | -     | 0.1                     | 0.2   |                         |       |               |       |                      |       | 18.6                  | 25.9  |
|         | 21.6                 |       | 30.6                 |        | 23.7                |       | 19.8              |       | 68.6                  |        | 0.0                       |       | 0.1                     |       |                         |       | 1.4 *         |       | 68.1                 |       | 22.3                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 18.0  |                      | 33.0  |                     | 27.0  |                   | 19.0  |                       | 44.0   |                           | -     |                         | 0.0   |                         | NW    |               | ..    |                      | 0.6   |                       | 24.0  |
| 1       | 19.0                 | 19.0  | 32.0                 | 32.0  | 18.0                | 25.0  | 15.0              | 19.0  | 71.0                  | 44.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | -     | 1.2                  | 0.2   | 15.0                  | 23.5  |
| 2       | 16.0                 | 18.0  | 27.0                 | 31.0  | 17.0                | 25.0  | 14.0              | 19.0  | 70.0                  | 46.0   | -                         | -     | 0.0                     | 0.3   | SW                      | SW    | -             | -     | 1.7                  | 0.6   | 14.5                  | 22.5  |
| 3       | 16.0                 | 18.0  | 26.0                 | 31.0  | 18.0                | 25.0  | 15.0              | 19.0  | 80.0                  | 46.0   | -                         | -     | -                       | 0.0   | NW                      | SW    | -             | -     | 1.3                  | 0.5   | 14.0                  | 23.0  |
| 4       | 16.0                 | 17.0  | 26.0                 | 31.0  | 16.0                | 24.0  | 14.0              | 19.0  | 79.0                  | 60.0   | -                         | -     | -                       | 0.0   | NW                      | NW    | -             | -     | 1.5                  | 0.9   | 14.5                  | 22.0  |
| 5       | 16.0                 | 18.0  | 25.0                 | 31.0  | 17.0                | 24.0  | 15.0              | 19.0  | 80.0                  | 60.0   | -                         | -     | -                       | 0.2   | NW                      | NW    | -             | -     | 1.6                  | 0.6   | 14.0                  | 22.5  |
| 6       | 18.0                 | 18.0  | 26.0                 | 30.0  | 18.0                | 26.0  | 15.0              | 20.0  | 71.0                  | 55.0   | -                         | -     | -                       | 0.1   | NW                      | NW    | -             | -     | 1.0                  | 0.5   | 15.0                  | 23.0  |
| 7       | 18.0                 | 19.0  | 27.0                 | 32.0  | 18.0                | 25.0  | 16.0              | 20.0  | 80.0                  | 61.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SW    | -             | -     | 1.1                  | 0.7   | 16.0                  | 25.5  |
| 8       | 19.0                 | 20.0  | 27.0                 | 33.0  | 19.0                | 27.0  | 17.0              | 21.0  | 81.0                  | 56.0   | -                         | -     | 0.0                     | 0.3   | SW                      | SW    | -             | -     | 1.2                  | 0.9   | 15.5                  | 24.5  |
| 9       | 19.0                 | 20.0  | 28.0                 | 34.0  | 19.0                | 26.0  | 16.0              | 20.0  | 81.0                  | 55.0   | -                         | -     | 0.0                     | -     | SW                      | SE    | -             | -     | 1.3                  | 0.7   | 16.5                  | 24.5  |
| 10      | 19.0                 | 20.0  | 27.0                 | 33.0  | 18.0                | 27.0  | 15.0              | 20.0  | 71.0                  | 50.0   | -                         | -     | 0.1                     | 0.1   | NE                      | SE    | -             | -     | 1.5                  | 0.6   | 15.0                  | 24.0  |
| 11      | 18.0                 | 19.0  | 26.0                 | 32.0  | 17.0                | 24.0  | 15.0              | 19.0  | 80.0                  | 60.0   | -                         | -     | 0.1                     | 0.2   | NE                      | SW    | -             | -     | 1.4                  | 0.6   | 15.5                  | 24.5  |
| 12      | 17.0                 | 18.0  | 25.0                 | 32.0  | 17.0                | 26.0  | 15.0              | 20.0  | 80.0                  | 55.0   | -                         | -     | 0.0                     | 0.1   | NE                      | SW    | -             | -     | 1.6                  | 0.5   | 15.0                  | 24.0  |
| 13      | 19.0                 | 19.0  | 28.0                 | 34.0  | 18.0                | 26.0  | 16.0              | 20.0  | 80.0                  | 50.0   | -                         | -     | -                       | 0.0   | NW                      | SW    | -             | -     | 1.4                  | 0.4   | 15.0                  | 24.0  |
| 14      | 19.0                 | 20.0  | 28.0                 | 33.0  | 19.0                | 26.0  | 17.0              | 20.0  | 81.0                  | 50.0   | -                         | -     | -                       | 0.1   | NW                      | SW    | -             | -     | 1.7                  | 0.2   | 16.5                  | 24.5  |
| 15      | 19.0                 | 19.0  | 27.0                 | 33.0  | 18.0                | 27.0  | 16.0              | 20.0  | 80.0                  | 50.0   | -                         | -     | -                       | 0.0   | NE                      | SW    | -             | -     | 1.2                  | 1.1   | 16.5                  | 25.0  |
| 16      | 20.0                 | 20.0  | 28.0                 | 32.0  | 19.0                | 25.0  | 17.0              | 20.0  | 81.0                  | 61.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 1.2                  | 1.0   | 16.5                  | 24.5  |
| 17      | 19.0                 | 20.0  | 26.0                 | 32.0  | 19.0                | 26.0  | 16.0              | 20.0  | 81.0                  | 50.0   | -                         | -     | 0.0                     | 0.2   | SW                      | SW    | -             | -     | 1.3                  | 1.0   | 16.5                  | 24.0  |
| 18      | 16.0                 | 18.0  | 27.0                 | 32.0  | 16.0                | 24.0  | 13.0              | 17.0  | 69.0                  | 46.0   | -                         | -     | 0.0                     | 0.7   | SE                      | SW    | -             | -     | 1.2                  | 1.0   | 14.0                  | 24.5  |
| 19      | 20.0                 | 15.0  | 26.0                 | 32.0  | 16.0                | 23.0  | 12.0              | 17.0  | 59.0                  | 52.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SW    | -             | -     | 0.8                  | 2.0   | 12.5                  | 23.0  |
| 20      | 15.0                 | 16.0  | 24.0                 | 31.0  | 16.0                | 23.0  | 13.0              | 17.0  | 69.0                  | 52.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SW    | -             | -     | 0.4                  | 1.3   | 13.0                  | 22.0  |
| 21      | 16.0                 | 17.0  | 25.0                 | 31.0  | 16.0                | 24.0  | 14.0              | 18.0  | 79.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 0.9                  | 1.0   | 14.0                  | 22.5  |
| 22      | 16.0                 | 16.0  | 26.0                 | 30.0  | 15.0                | 26.0  | 12.0              | 20.0  | 68.0                  | 55.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SE    | -             | -     | 0.5                  | 0.7   | 15.0                  | 23.0  |
| 23      | 16.0                 | 18.0  | 26.0                 | 31.0  | 17.0                | 24.0  | 15.0              | 18.0  | 80.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 0.7                  | 0.9   | 14.5                  | 23.0  |
| 24      | 16.0                 | 17.0  | 26.0                 | 31.0  | 16.0                | 25.0  | 14.0              | 19.0  | 79.0                  | 46.0   | -                         | -     | -                       | 0.1   | SW                      | SW    | -             | -     | 2.0                  | 0.6   | 14.5                  | 22.5  |
| 25      | 16.0                 | 16.0  | 27.0                 | 32.0  | 16.0                | 25.0  | 14.0              | 19.0  | 79.0                  | 46.0   | -                         | -     | 0.1                     | 0.1   | NW                      | SW    | -             | -     | 1.0                  | 0.9   | 14.5                  | 22.5  |
| 26      | 16.0                 | 16.0  | 26.0                 | 32.0  | 16.0                | 23.0  | 12.0              | 17.0  | 59.0                  | 52.0   | -                         | -     | 0.0                     | 0.7   | NW                      | SW    | -             | -     | 1.2                  | 2.0   | 13.5                  | 20.5  |
| 27      | 15.0                 | 15.0  | 25.0                 | 31.0  | 16.0                | 25.0  | 12.0              | 19.0  | 59.0                  | 46.0   | -                         | -     | -                       | 0.3   | NE                      | SW    | -             | -     | 1.3                  | 0.7   | 12.0                  | 20.0  |
| 28      | 15.0                 | 15.0  | 25.0                 | 32.0  | 15.0                | 25.0  | 12.0              | 18.0  | 68.0                  | 47.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SW    | -             | -     | 0.9                  | 1.2   | 12.5                  | 21.5  |
| 29      | 15.0                 | 16.0  | 26.0                 | 31.0  | 15.0                | 23.0  | 13.0              | 17.0  | 78.0                  | 52.0   | -                         | -     | -                       | 0.1   | SW                      | SW    | -             | -     | 1.1                  | 1.4   | 13.0                  | 22.5  |
| 30      | 15.0                 | 16.0  | 26.0                 | 31.0  | 15.0                | 23.0  | 13.0              | 17.0  | 78.0                  | 52.0   | -                         | -     | -                       | 0.1   | NW                      | SW    | -             | -     | 0.6                  | 1.3   | 13.5                  | 22.0  |
| 31      | 16.0                 |       | 25.0                 |       | 15.0                |       | 13.0              |       | 78.0                  |        | -                         |       | -                       |       | NW                      |       | -             |       | 0.5                  |       | 13.5                  |       |
| Total   | 530.0                | 551.0 | 819.0                | 986.0 | 525.0               | 774.0 | 446.0             | 587.0 | 2329.0                | 1605.0 | -                         | -     | 0.4                     | 4.5   |                         |       | -             | -     | 36.3                 | 26.6  | 451.5                 | 719.0 |
| Average | 17.1                 | 17.8  | 26.4                 | 31.8  | 16.9                | 25.0  | 14.4              | 18.9  | 75.1                  | 51.8   | -                         | -     | 0.0                     | 0.1   |                         |       |               |       |                      |       | 14.6                  | 23.2  |
|         | 17.4                 |       | 29.1                 |       | 21.0                |       | 16.7              |       | 63.5                  |        | 0.0                       |       | 0.1                     |       |                         |       | 0.0 *         |       | 62.9                 |       | 18.9                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 16.0  |                      | 31.0  |                     | 24.0  |                   | 17.0  |                       | 46.0   |                           | -     |                         | 0.1   |                         | SW    |               | ..    |                      | 1.1   |                       | 22.0  |
| 1       | 17.0                 | 16.0  | 25.0                 | 31.0  | 17.0                | 23.0  | 15.0              | 17.0  | 80.0                  | 52.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SW    | -             | -     | 0.8                  | 1.3   | 13.5                  | 21.5  |
| 2       | 16.0                 | 16.0  | 26.0                 | 31.0  | 16.0                | 24.0  | 12.0              | 18.0  | 59.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SW    | -             | -     | 1.1                  | 1.5   | 13.0                  | 22.0  |
| 3       | 16.0                 | 17.0  | 25.0                 | 30.0  | 16.0                | 23.0  | 13.0              | 16.0  | 69.0                  | 45.0   | -                         | -     | 0.0                     | 0.3   | SE                      | SE    | -             | -     | 0.5                  | 1.2   | 13.0                  | 22.0  |
| 4       | 15.0                 | 15.0  | 25.0                 | 30.0  | 14.0                | 23.0  | 11.0              | 17.0  | 67.0                  | 52.0   | -                         | -     | 0.0                     | 0.2   | SW                      | SE    | -             | -     | 1.1                  | 1.0   | 14.0                  | 22.5  |
| 5       | 13.0                 | 14.0  | 24.0                 | 30.0  | 13.0                | 23.0  | 10.0              | 16.0  | 66.0                  | 45.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SW    | -             | -     | 1.0                  | 1.2   | 13.0                  | 20.0  |
| 6       | 14.0                 | 14.0  | 24.0                 | 29.0  | 13.0                | 23.0  | 10.0              | 16.0  | 66.0                  | 45.0   | -                         | -     | -                       | 0.3   | NE                      | SW    | -             | -     | 1.2                  | 1.4   | 12.0                  | 20.0  |
| 7       | 14.0                 | 15.0  | 25.0                 | 30.0  | 13.0                | 23.0  | 11.0              | 16.0  | 77.0                  | 45.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 11.5                  | 20.5  |
| 8       | 15.0                 | 15.0  | 26.0                 | 30.0  | 14.0                | 24.0  | 11.0              | 18.0  | 67.0                  | 53.0   | -                         | -     | 0.1                     | 0.3   | SW                      | SW    | -             | -     | 1.1                  | 1.4   | 12.0                  | 20.5  |
| 9       | 14.0                 | 15.0  | 25.0                 | 30.0  | 14.0                | 22.0  | 11.0              | 16.0  | 67.0                  | 50.0   | -                         | -     | 0.3                     | 0.1   | SE                      | SW    | -             | -     | 1.2                  | 1.5   | 11.5                  | 20.0  |
| 10      | 14.0                 | 15.0  | 24.0                 | 31.0  | 13.0                | 24.0  | 10.0              | 17.0  | 66.0                  | 46.0   | -                         | -     | 0.1                     | 0.0   | SW                      | SE    | -             | -     | 1.1                  | 1.4   | 11.0                  | 20.0  |
| 11      | 14.0                 | 15.0  | 25.0                 | 31.0  | 14.0                | 25.0  | 11.0              | 17.0  | 67.0                  | 41.0   | -                         | -     | 0.0                     | 0.4   | SE                      | SE    | -             | -     | 1.0                  | 1.1   | 11.5                  | 20.5  |
| 12      | 15.0                 | 16.0  | 26.0                 | 31.0  | 14.0                | 25.0  | 11.0              | 18.0  | 67.0                  | 47.0   | -                         | -     | -                       | 0.2   | NE                      | SW    | -             | -     | 1.5                  | 0.7   | 12.0                  | 22.0  |
| 13      | 15.0                 | 16.0  | 26.0                 | 32.0  | 15.0                | 26.0  | 12.0              | 20.0  | 68.0                  | 55.0   | -                         | -     | -                       | 0.2   | NE                      | SW    | -             | -     | 1.3                  | 1.4   | 12.5                  | 22.5  |
| 14      | 16.0                 | 18.0  | 26.0                 | 32.0  | 16.0                | 25.0  | 13.0              | 19.0  | 69.0                  | 54.0   | -                         | -     | -                       | 0.3   | NE                      | SW    | -             | -     | 0.8                  | 1.0   | 13.0                  | 22.0  |
| 15      | 17.0                 | 17.0  | 27.0                 | 32.0  | 17.0                | 25.0  | 14.0              | 18.0  | 70.0                  | 47.0   | -                         | -     | -                       | 0.5   | SE                      | SW    | -             | -     | 1.5                  | 1.0   | 14.0                  | 23.5  |
| 16      | 16.0                 | 16.0  | 27.0                 | 32.0  | 16.0                | 25.0  | 13.0              | 17.0  | 69.0                  | 41.0   | -                         | -     | 0.2                     | 0.4   | NE                      | SW    | -             | -     | 1.1                  | 1.4   | 14.5                  | 23.0  |
| 17      | 16.0                 | 15.0  | 26.0                 | 32.0  | 15.0                | 25.0  | 13.0              | 17.0  | 78.0                  | 41.0   | -                         | -     | -                       | 0.1   | NW                      | SW    | -             | -     | 1.4                  | 1.8   | 13.5                  | 23.0  |
| 18      | 16.0                 | 16.0  | 26.0                 | 33.0  | 16.0                | 25.0  | 12.0              | 17.0  | 59.0                  | 41.0   | -                         | -     | 0.0                     | 0.3   | SW                      | SW    | -             | -     | 1.3                  | 2.0   | 13.0                  | 23.5  |
| 19      | 15.0                 | 16.0  | 27.0                 | 32.0  | 15.0                | 24.0  | 12.0              | 16.0  | 68.0                  | 39.0   | -                         | -     | 0.0                     | 0.3   | NE                      | SE    | -             | -     | 1.4                  | 1.5   | 13.5                  | 23.5  |
| 20      | 15.0                 | 15.0  | 26.0                 | 32.0  | 15.0                | 26.0  | 13.0              | 19.0  | 68.0                  | 49.0   | -                         | -     | 2.0                     | 0.1   | NW                      | SW    | -             | -     | 1.8                  | 0.7   | 13.0                  | 23.0  |
| 21      | 16.0                 | 16.0  | 27.0                 | 32.0  | 17.0                | 26.0  | 15.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | -                       | 0.0   | SW                      | SW    | -             | -     | 1.9                  | 0.6   | 13.0                  | 24.0  |
| 22      | 15.0                 | 16.0  | 26.0                 | 32.0  | 16.0                | 26.0  | 14.0              | 20.0  | 79.0                  | 55.0   | -                         | -     | 0.1                     | 0.1   | SW                      | SW    | -             | -     | 1.9                  | 0.6   | 14.0                  | 24.5  |
| 23      | 16.0                 | 16.0  | 27.0                 | 32.0  | 17.0                | 25.0  | 15.0              | 20.0  | 80.0                  | 61.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SW    | -             | -     | 2.0                  | 0.9   | 13.5                  | 24.0  |
| 24      | 15.0                 | 17.0  | 26.0                 | 33.0  | 17.0                | 26.0  | 14.0              | 20.0  | 70.0                  | 55.0   | -                         | -     | 0.1                     | 0.1   | SW                      | NW    | -             | -     | 1.8                  | 1.1   | 14.5                  | 24.5  |
| 25      | 16.0                 | 18.0  | 26.0                 | 33.0  | 17.0                | 26.0  | 13.0              | 20.0  | 61.0                  | 55.0   | -                         | -     | 0.2                     | 0.4   | SW                      | SE    | -             | -     | 1.9                  | 1.2   | 15.0                  | 24.0  |
| 26      | 16.0                 | 20.0  | 26.0                 | 31.0  | 17.0                | 26.0  | 13.0              | 18.0  | 61.0                  | 42.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SE    | -             | -     | 2.0                  | 1.3   | 15.0                  | 24.5  |
| 27      | 15.0                 | 15.0  | 26.0                 | 31.0  | 15.0                | 25.0  | 12.0              | 17.0  | 68.0                  | 47.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | -     | 1.9                  | 1.9   | 16.0                  | 24.0  |
| 28      | 14.0                 | 14.0  | 26.0                 | 30.0  | 15.0                | 25.0  | 13.0              | 17.0  | 78.0                  | 47.0   | -                         | -     | -                       | 0.0   | SW                      | SE    | -             | -     | 1.4                  | 1.4   | 13.0                  | 23.0  |
| 29      | 15.0                 | 15.0  | 27.0                 | 30.0  | 15.0                | 24.0  | 13.0              | 17.0  | 78.0                  | 46.0   | -                         | -     | 0.1                     | 0.2   | SE                      | SW    | -             | -     | 1.1                  | 1.2   | 13.0                  | 23.0  |
| 30      | 16.0                 | 16.0  | 25.0                 | 33.0  | 16.0                | 26.0  | 12.0              | 18.0  | 59.0                  | 42.0   | -                         | -     | 0.1                     | 0.9   | SW                      | SW    | -             | -     | 1.7                  | 1.9   | 13.0                  | 24.0  |
| 31      | 17.0                 |       | 27.0                 |       | 16.0                |       | 12.0              |       | 59.0                  |        | -                         |       | 0.1                     |       | SW                      |       | -             |       | 2.4                  |       | 14.0                  |       |
| Total   | 474.0                | 491.0 | 800.0                | 969.0 | 474.0               | 762.0 | 384.0             | 548.0 | 2140.0                | 1486.0 | -                         | -     | 3.4                     | 6.7   |                         |       | -             | -     | 43.2                 | 39.7  | 409.0                 | 697.0 |
| Average | 15.3                 | 15.8  | 25.8                 | 31.3  | 15.3                | 24.6  | 12.4              | 17.7  | 69.0                  | 47.9   | -                         | -     | 0.1                     | 0.2   |                         |       |               |       |                      |       | 13.2                  | 22.5  |
|         | 15.6                 |       | 28.5                 |       | 19.9                |       | 15.0              |       | 58.5                  |        | 0.0                       |       | 0.2                     |       |                         |       | 0.0 *         |       | 82.9                 |       | 17.8                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 16.0  |                      | 32.0  |                     | 27.0  |                   | 19.0  |                       | 44.0   |                           | -     |                         | 1.1   |                         | SE    |               | ..    |                      | 1.3   |                       | 24.5  |
| 1       | 18.0                 | 16.0  | 28.0                 | 33.0  | 18.0                | 27.0  | 13.0              | 18.0  | 53.0                  | 38.0   | -                         | -     | 0.1                     | 0.4   | NE                      | SW    | -             | -     | 1.6                  | 1.3   | 14.5                  | 24.5  |
| 2       | 18.0                 | 18.0  | 28.0                 | 35.0  | 17.0                | 28.0  | 14.0              | 19.0  | 70.0                  | 39.0   | -                         | -     | 0.5                     | 0.6   | NW                      | SW    | -             | -     | 1.4                  | 1.6   | 14.5                  | 25.0  |
| 3       | 18.0                 | 19.0  | 29.0                 | 36.0  | 18.0                | 29.0  | 15.0              | 21.0  | 71.0                  | 30.0   | -                         | -     | -                       | 0.0   | NE                      | NE    | -             | -     | 1.7                  | 1.8   | 15.0                  | 27.5  |
| 4       | 19.0                 | 20.0  | 30.0                 | 36.0  | 19.0                | 30.0  | 15.0              | 22.0  | 63.0                  | 47.0   | -                         | -     | 0.0                     | 0.3   | SW                      | SE    | -             | -     | 1.6                  | 1.3   | 18.0                  | 30.0  |
| 5       | 19.0                 | 19.0  | 31.0                 | 35.0  | 20.0                | 30.0  | 16.0              | 23.0  | 64.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | SE                      | SW    | -             | -     | 1.5                  | 1.1   | 19.0                  | 30.0  |
| 6       | 20.0                 | 21.0  | 30.0                 | 35.0  | 20.0                | 30.0  | 17.0              | 23.0  | 73.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | NE                      | SW    | -             | -     | 1.4                  | 0.6   | 19.0                  | 27.5  |
| 7       | 21.0                 | 22.0  | 30.0                 | 37.0  | 21.0                | 24.0  | 18.0              | 20.0  | 73.0                  | 68.0   | -                         | -     | 0.0                     | 0.1   | NE                      | SE    | -             | -     | 1.4                  | 2.0   | 20.0                  | 28.0  |
| 8       | 20.0                 | 20.0  | 25.0                 | 34.0  | 19.0                | 28.0  | 16.0              | 21.0  | 72.0                  | 51.0   | -                         | -     | 0.1                     | 0.7   | NE                      | NE    | -             | -     | 0.4                  | 1.5   | 18.5                  | 28.0  |
| 9       | 20.0                 | 21.0  | 29.0                 | 35.0  | 20.0                | 29.0  | 17.0              | 21.0  | 73.0                  | 46.0   | -                         | -     | -                       | 0.6   | NW                      | NE    | -             | -     | 1.6                  | 1.3   | 19.0                  | 28.5  |
| 10      | 21.0                 | 22.0  | 30.0                 | 32.0  | 21.0                | 28.0  | 16.0              | 21.0  | 57.0                  | 51.0   | -                         | -     | 0.0                     | 0.2   | SE                      | SW    | -             | -     | 1.7                  | 1.7   | 18.5                  | 28.0  |
| 11      | 22.0                 | 21.0  | 28.0                 | 31.0  | 20.0                | 28.0  | 16.0              | 21.0  | 64.0                  | 51.0   | -                         | -     | 0.0                     | 1.9   | SW                      | SW    | -             | -     | 1.5                  | 1.6   | 18.0                  | 28.0  |
| 12      | 20.0                 | 20.0  | 28.0                 | 30.0  | 20.0                | 24.0  | 16.0              | 19.0  | 64.0                  | 60.0   | -                         | -     | 0.9                     | 1.0   | SW                      | SE    | 8.2           | 0.8   | 4.7                  | 1.0   | 19.0                  | 26.0  |
| 13      | 20.0                 | 20.0  | 26.0                 | 28.0  | 20.0                | 22.0  | 18.0              | 20.0  | 81.0                  | 82.0   | -                         | -     | 0.2                     | 0.6   | SE                      | SE    | 2.0           | -     | 1.0                  | 0.3   | 19.5                  | 27.5  |
| 14      | 18.0                 | 19.0  | 22.0                 | 30.0  | 18.0                | 26.0  | 17.0              | 20.0  | 90.0                  | 55.0   | -                         | -     | 0.7                     | 1.0   | SE                      | SE    | 6.8           | -     | 5.2                  | 0.9   | 18.0                  | 27.5  |
| 15      | 19.0                 | 19.0  | 27.0                 | 32.0  | 18.0                | 25.0  | 15.0              | 19.0  | 71.0                  | 54.0   | -                         | -     | 0.0                     | 0.7   | SE                      | SW    | -             | -     | 1.1                  | 1.7   | 18.0                  | 27.0  |
| 16      | 18.0                 | 19.0  | 26.0                 | 33.0  | 18.0                | 27.0  | 15.0              | 20.0  | 71.0                  | 50.0   | -                         | -     | 0.0                     | 0.5   | SW                      | SW    | -             | -     | 1.7                  | 1.1   | 17.0                  | 27.5  |
| 17      | 20.0                 | 20.0  | 28.0                 | 33.0  | 19.0                | 28.0  | 16.0              | 20.0  | 72.0                  | 45.0   | -                         | -     | 0.0                     | 0.9   | NE                      | SW    | -             | -     | 1.8                  | 1.5   | 18.0                  | 27.5  |
| 18      | 20.0                 | 20.0  | 29.0                 | 35.0  | 19.0                | 29.0  | 16.0              | 21.0  | 72.0                  | 46.0   | -                         | -     | -                       | 0.0   | NW                      | SW    | -             | -     | 1.6                  | 1.7   | 18.5                  | 28.0  |
| 19      | 20.0                 | 21.0  | 30.0                 | 36.0  | 20.0                | 30.0  | 17.0              | 22.0  | 73.0                  | 47.0   | -                         | -     | 0.1                     | 0.2   | NW                      | SE    | -             | -     | 1.4                  | 1.1   | 18.5                  | 29.0  |
| 20      | 22.0                 | 22.0  | 31.0                 | 35.0  | 21.0                | 30.0  | 17.0              | 22.0  | 64.0                  | 47.0   | -                         | -     | 0.0                     | 0.2   | SW                      | SW    | -             | -     | 1.7                  | 1.5   | 20.0                  | 29.5  |
| 21      | 21.0                 | 21.0  | 31.0                 | 37.0  | 21.0                | 30.0  | 16.0              | 21.0  | 57.0                  | 42.0   | -                         | -     | -                       | 0.3   | NE                      | SW    | -             | -     | 1.8                  | 2.0   | 19.5                  | 29.5  |
| 22      | 21.0                 | 22.0  | 31.0                 | 37.0  | 20.0                | 31.0  | 17.0              | 21.0  | 73.0                  | 37.0   | -                         | -     | -                       | 0.4   | NW                      | NE    | -             | -     | 1.6                  | 2.7   | 19.0                  | 30.0  |
| 23      | 21.0                 | 22.0  | 32.0                 | 39.0  | 21.0                | 31.0  | 17.0              | 22.0  | 64.0                  | 73.0   | -                         | -     | 0.0                     | 0.2   | SW                      | NE    | -             | -     | 2.0                  | 1.9   | 19.5                  | 30.0  |
| 24      | 23.0                 | 23.0  | 32.0                 | 39.0  | 23.0                | 32.0  | 19.0              | 24.0  | 67.0                  | 49.0   | -                         | -     | 0.0                     | 0.2   | SW                      | SW    | -             | -     | 1.8                  | 2.0   | 20.5                  | 31.5  |
| 25      | 23.0                 | 23.0  | 33.0                 | 39.0  | 24.0                | 31.0  | 20.0              | 23.0  | 68.0                  | 48.0   | -                         | -     | 0.0                     | 0.1   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 21.5                  | 31.0  |
| 26      | 24.0                 | 25.0  | 32.0                 | 37.0  | 24.0                | 32.0  | 20.0              | 23.0  | 68.0                  | 44.0   | -                         | -     | 0.2                     | 0.6   | SW                      | SE    | -             | -     | 1.8                  | 1.8   | 22.0                  | 31.5  |
| 27      | 22.0                 | 22.0  | 33.0                 | 39.0  | 21.0                | 31.0  | 17.0              | 21.0  | 65.0                  | 37.0   | -                         | -     | 0.1                     | 0.6   | NE                      | SE    | -             | -     | 1.7                  | 2.4   | 20.5                  | 31.5  |
| 28      | 22.0                 |       | 33.0                 |       | 22.0                |       | 17.0              |       | 62.0                  |        | -                         |       | 0.0                     |       | NW                      |       | -             |       | 2.4                  |       | 20.5                  |       |
| Total   | 570.0                | 573.0 | 822.0                | 970.0 | 562.0               | 797.0 | 463.0             | 587.0 | 1915.0                | 1387.0 | -                         | -     | 2.8                     | 13.4  |                         |       | 17.0          | 0.8   | 51.1                 | 42.7  | 523.5                 | 794.0 |
| Average | 20.4                 | 20.5  | 29.4                 | 34.6  | 20.1                | 28.5  | 16.5              | 21.0  | 68.4                  | 49.5   | -                         | -     | 0.1                     | 0.5   |                         |       |               |       |                      |       | 18.7                  | 28.4  |
|         | 20.4                 |       | 32.0                 |       | 24.3                |       | 18.8              |       | 59.0                  |        | 0.0                       |       | 0.3                     |       |                         |       | 17.8 *        |       | 93.8                 |       | 23.5                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 23.0  |                      | 39.0   |                     | 32.0   |                   | 23.0  |                       | 44.0   |                           | -     |                         | 0.3   |                         | SW    |               | ..    |                      | 2.0   |                       | 31.5  |
| 1       | 23.0                 | 24.0  | 33.0                 | 40.0   | 23.0                | 32.0   | 18.0              | 23.0  | 59.0                  | 44.0   | -                         | -     | 0.0                     | 0.4   | SW                      | SE    | -             | -     | 2.2                  | 2.4   | 21.0                  | 31.5  |
| 2       | 24.0                 | 25.0  | 34.0                 | 40.0   | 23.0                | 33.0   | 18.0              | 23.0  | 59.0                  | 40.0   | -                         | -     | -                       | 0.2   | NW                      | NE    | -             | -     | 2.3                  | 2.4   | 22.0                  | 32.0  |
| 3       | 24.0                 | 25.0  | 34.0                 | 40.0   | 24.0                | 34.0   | 19.0              | 24.0  | 60.0                  | 41.0   | -                         | -     | 0.0                     | 0.1   | NE                      | SE    | -             | -     | 2.4                  | 2.6   | 22.5                  | 32.0  |
| 4       | 24.0                 | 25.0  | 35.0                 | 41.0   | 24.0                | 34.0   | 19.0              | 24.0  | 60.0                  | 41.0   | -                         | -     | 0.0                     | 0.2   | NE                      | SW    | -             | -     | 2.7                  | 1.4   | 22.5                  | 32.5  |
| 5       | 25.0                 | 26.0  | 34.0                 | 38.0   | 25.0                | 31.0   | 19.0              | 22.0  | 54.0                  | 43.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 2.5                  | 2.0   | 23.0                  | 27.5  |
| 6       | 23.0                 | 25.0  | 32.0                 | 37.0   | 23.0                | 32.0   | 19.0              | 23.0  | 67.0                  | 44.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SE    | -             | -     | 2.6                  | 2.0   | 20.0                  | 29.0  |
| 7       | 24.0                 | 25.0  | 33.0                 | 38.0   | 24.0                | 32.0   | 18.0              | 23.0  | 53.0                  | 44.0   | -                         | -     | 0.0                     | 0.4   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 30.0  |
| 8       | 23.0                 | 25.0  | 33.0                 | 38.0   | 23.0                | 31.0   | 18.0              | 21.0  | 59.0                  | 37.0   | -                         | -     | -                       | 1.2   | NW                      | SW    | -             | -     | 2.4                  | 2.7   | 20.5                  | 28.0  |
| 9       | 25.0                 | 26.0  | 33.0                 | 36.0   | 23.0                | 31.0   | 18.0              | 22.0  | 59.0                  | 40.0   | -                         | -     | 0.2                     | 0.1   | NW                      | SE    | -             | -     | 2.2                  | 1.5   | 20.0                  | 28.0  |
| 10      | 23.0                 | 25.0  | 32.0                 | 39.0   | 24.0                | 33.0   | 19.0              | 24.0  | 60.0                  | 45.0   | -                         | -     | 0.0                     | 0.3   | NW                      | SW    | -             | -     | 1.7                  | 2.7   | 19.5                  | 30.0  |
| 11      | 26.0                 | 27.0  | 34.0                 | 39.0   | 26.0                | 34.0   | 20.0              | 24.0  | 55.0                  | 41.0   | -                         | -     | 0.1                     | 0.1   | NW                      | SE    | -             | -     | 1.4                  | 2.0   | 21.5                  | 30.5  |
| 12      | 26.0                 | 27.0  | 34.0                 | 39.0   | 26.0                | 33.0   | 21.0              | 23.0  | 62.0                  | 40.0   | -                         | -     | 0.0                     | 84.0  | NE                      | SW    | -             | -     | 2.1                  | 2.6   | 21.0                  | 30.5  |
| 13      | 26.0                 | 27.0  | 34.0                 | 40.0   | 26.0                | 34.0   | 20.0              | 23.0  | 55.0                  | 36.0   | -                         | -     | -                       | 1.1   | NW                      | SE    | -             | -     | 2.4                  | 2.7   | 31.0                  | 30.0  |
| 14      | 26.0                 | 26.0  | 35.0                 | 41.0   | 25.0                | 33.0   | 19.0              | 25.0  | 54.0                  | 53.0   | -                         | -     | 0.0                     | 0.2   | NW                      | SW    | -             | -     | 2.3                  | 2.9   | 20.0                  | 30.5  |
| 15      | 26.0                 | 28.0  | 35.0                 | 35.0   | 26.0                | 30.0   | 21.0              | 22.0  | 62.0                  | 47.0   | -                         | -     | 0.0                     | 0.6   | NE                      | SE    | -             | 0.4   | 2.0                  | 1.1   | 20.5                  | 28.0  |
| 16      | 22.0                 | 23.0  | 35.0                 | 26.0   | 22.0                | 22.0   | 20.0              | 20.0  | 78.0                  | 82.0   | -                         | -     | 0.2                     | 1.3   | SW                      | NE    | 2.6           | -     | 0.6                  | 0.2   | 22.0                  | 25.5  |
| 17      | 19.0                 | 23.0  | 33.0                 | 34.0   | 22.0                | 30.0   | 20.0              | 22.0  | 78.0                  | 47.0   | -                         | -     | 0.1                     | 1.0   | NE                      | SW    | -             | -     | 0.3                  | 1.0   | 18.5                  | 29.5  |
| 18      | 22.0                 | 25.0  | 32.0                 | 36.0   | 25.0                | 31.0   | 19.0              | 23.0  | 54.0                  | 48.0   | -                         | -     | 0.1                     | 0.2   | SE                      | SW    | -             | -     | 2.0                  | 2.7   | 21.5                  | 31.0  |
| 19      | 20.0                 | 26.0  | 33.0                 | 38.0   | 26.0                | 32.0   | 17.0              | 22.0  | 36.0                  | 39.0   | -                         | -     | 0.0                     | 1.6   | SW                      | NE    | -             | -     | 2.6                  | 3.1   | 20.0                  | 30.0  |
| 20      | 20.0                 | 24.0  | 34.0                 | 38.0   | 24.0                | 32.0   | 19.0              | 22.0  | 60.0                  | 39.0   | -                         | -     | -                       | 0.2   | NE                      | SE    | -             | -     | 2.3                  | 2.0   | 20.0                  | 30.0  |
| 21      | 21.0                 | 24.0  | 34.0                 | 37.0   | 24.0                | 31.0   | 19.0              | 21.0  | 60.0                  | 37.0   | -                         | -     | -                       | 0.0   | SE                      | SE    | -             | -     | 2.0                  | 1.5   | 21.0                  | 29.0  |
| 22      | 22.0                 | 25.0  | 33.0                 | 39.0   | 25.0                | 32.0   | 21.0              | 22.0  | 68.0                  | 39.0   | -                         | -     | 0.2                     | 0.2   | NE                      | SE    | 0.4           | -     | 0.8                  | 2.0   | 21.0                  | 30.0  |
| 23      | 20.0                 | 29.0  | 34.0                 | 39.0   | 27.0                | 34.0   | 20.0              | 21.0  | 50.0                  | 27.0   | -                         | -     | 0.6                     | 0.0   | SE                      | NE    | -             | -     | 2.7                  | 2.8   | 21.5                  | 31.5  |
| 24      | 20.0                 | 29.0  | 35.0                 | 39.0   | 28.0                | 34.0   | 21.0              | 22.0  | 51.0                  | 32.0   | -                         | -     | 0.0                     | 0.7   | NW                      | SE    | -             | -     | 2.5                  | 2.8   | 21.5                  | 32.0  |
| 25      | 22.0                 | 29.0  | 36.0                 | 39.0   | 26.0                | 33.0   | 19.0              | 21.0  | 49.0                  | 30.0   | -                         | -     | -                       | 0.3   | SW                      | SE    | -             | -     | 2.6                  | 3.1   | 21.5                  | 31.5  |
| 26      | 21.0                 | 28.0  | 35.0                 | 38.0   | 27.0                | 33.0   | 18.0              | 21.0  | 38.0                  | 30.0   | -                         | -     | 0.0                     | 0.7   | NW                      | SW    | -             | -     | 2.4                  | 3.0   | 21.0                  | 30.5  |
| 27      | 20.0                 | 27.0  | 36.0                 | 41.0   | 26.0                | 34.0   | 18.0              | 22.0  | 42.0                  | 32.0   | -                         | -     | -                       | 0.2   | NW                      | SE    | -             | -     | 2.8                  | 3.2   | 19.0                  | 30.0  |
| 28      | 20.0                 | 27.0  | 36.0                 | 41.0   | 26.0                | 35.0   | 19.0              | 23.0  | 49.0                  | 33.0   | -                         | -     | -                       | 0.3   | SW                      | SE    | -             | -     | 2.7                  | 2.7   | 19.0                  | 31.0  |
| 29      | 22.0                 | 28.0  | 36.0                 | 40.0   | 28.0                | 34.0   | 20.0              | 23.0  | 45.0                  | 36.0   | -                         | -     | 0.0                     | 0.2   | SW                      | SW    | -             | -     | 3.0                  | 2.3   | 20.0                  | 29.0  |
| 30      | 21.0                 | 31.0  | 36.0                 | 42.0   | 30.0                | 36.0   | 21.0              | 22.0  | 42.0                  | 26.0   | -                         | -     | 0.0                     | 0.6   | SW                      | SW    | -             | -     | 2.6                  | 3.8   | 20.0                  | 30.0  |
| 31      | 22.0                 |       | 41.0                 |        | 27.0                |        | 19.0              |       | 44.0                  |        | -                         |       | 0.0                     |       | ..                      |       | -             |       | 3.1                  |       | 19.0                  |       |
| Total   | 702.0                | 807.0 | 1064.0               | 1187.0 | 778.0               | 1002.0 | 596.0             | 696.0 | 1722.0                | 1257.0 | -                         | -     | 1.6                     | 96.8  |                         |       | 3.0           | 0.4   | 68.2                 | 71.2  | 651.5                 | 932.0 |
| Average | 22.6                 | 26.0  | 34.3                 | 38.3   | 25.1                | 32.3   | 19.2              | 22.5  | 55.5                  | 40.5   | -                         | -     | 0.1                     | 3.1   |                         |       |               |       |                      |       | 21.0                  | 30.1  |
|         | 24.3                 |       | 36.3                 |        | 28.7                |        | 20.8              |       | 48.0                  |        | 0.0                       |       | 1.6                     |       |                         |       | 3.4 *         |       | 139.4                |       | 25.5                  |       |

# Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 28.0  |                      | 41.0   |                     | 35.0   |                   | 23.0  |                       | 33.0   |                           | -     | -                       | 0.2   |                         | ..    |               | ..    |                      | 2.6   |                       | 28.5  |
| 1       | 24.0                 | 25.0  | 36.0                 | 30.0   | 27.0                | 25.0   | 22.0              | 18.0  | 63.0                  | 47.0   | -                         | -     | 0.1                     | 1.2   | SW                      | NW    | -             | -     | 2.5                  | 2.0   | 20.0                  | 28.0  |
| 2       | 20.0                 | 26.0  | 36.0                 | 36.0   | 25.0                | 32.0   | 20.0              | 24.0  | 61.0                  | 49.0   | -                         | -     | 1.9                     | 0.5   | NW                      | NW    | 1.0           | -     | 0.6                  | 1.8   | 17.0                  | 28.0  |
| 3       | 23.0                 | 28.0  | 34.0                 | 38.0   | 27.0                | 32.0   | 23.0              | 23.0  | 70.0                  | 40.0   | -                         | -     | 0.2                     | 0.3   | NW                      | SW    | -             | -     | 2.6                  | 2.5   | 19.5                  | 30.0  |
| 4       | 23.0                 | 29.0  | 39.0                 | 39.0   | 29.0                | 33.0   | 23.0              | 23.0  | 58.0                  | 40.0   | -                         | -     | 0.2                     | 0.7   | SW                      | SW    | -             | -     | 3.0                  | 3.3   | 21.0                  | 30.5  |
| 5       | 24.0                 | 28.0  | 35.0                 | 41.0   | 28.0                | 35.0   | 22.0              | 23.0  | 57.0                  | 33.0   | -                         | -     | 0.1                     | 1.0   | SW                      | NE    | -             | -     | 2.6                  | 3.4   | 20.5                  | 30.5  |
| 6       | 26.0                 | 28.0  | 41.0                 | 41.0   | 29.0                | 32.0   | 23.0              | 22.0  | 58.0                  | 39.0   | -                         | -     | 0.1                     | 1.1   | NW                      | NE    | -             | -     | 3.0                  | 2.4   | 21.0                  | 30.0  |
| 7       | 27.0                 | 29.0  | 35.0                 | 39.0   | 30.0                | 32.0   | 23.0              | 23.0  | 53.0                  | 44.0   | -                         | -     | 0.6                     | 0.5   | NE                      | SW    | -             | -     | 3.1                  | 2.6   | 22.0                  | 30.5  |
| 8       | 27.0                 | 27.0  | 36.0                 | 38.0   | 30.0                | 34.0   | 23.0              | 24.0  | 53.0                  | 41.0   | -                         | -     | 0.4                     | 1.4   | NW                      | NE    | -             | -     | 3.2                  | 2.9   | 22.0                  | 30.5  |
| 9       | 27.0                 | 32.0  | 36.0                 | 39.0   | 31.0                | 35.0   | 23.0              | 25.0  | 48.0                  | 42.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | -     | 3.0                  | 3.0   | 21.5                  | 30.5  |
| 10      | 23.0                 | 27.0  | 36.0                 | 38.0   | 26.0                | 35.0   | 22.0              | 25.0  | 69.0                  | 42.0   | -                         | -     | 0.5                     | 0.5   | SW                      | NW    | 1.4           | -     | 1.4                  | 2.3   | 20.5                  | 32.0  |
| 11      | 26.0                 | 31.0  | 36.0                 | 40.0   | 30.0                | 36.0   | 23.0              | 25.0  | 53.0                  | 38.0   | -                         | -     | 0.1                     | 0.8   | NE                      | SE    | -             | -     | 2.9                  | 3.2   | 22.0                  | 31.0  |
| 12      | 25.0                 | 28.0  | 37.0                 | 37.0   | 29.0                | 34.0   | 21.0              | 24.0  | 46.0                  | 41.0   | -                         | -     | 0.1                     | 2.1   | SE                      | NE    | -             | -     | 3.0                  | 2.9   | 21.5                  | 29.5  |
| 13      | 26.0                 | 30.0  | 35.0                 | 38.0   | 29.0                | 34.0   | 23.0              | 25.0  | 58.0                  | 46.0   | -                         | -     | 0.3                     | 0.4   | SE                      | SW    | -             | -     | 3.0                  | 2.5   | 21.5                  | 30.0  |
| 14      | 26.0                 | 29.0  | 35.0                 | 40.0   | 29.0                | 31.0   | 23.0              | 23.0  | 58.0                  | 48.0   | -                         | -     | 0.1                     | 1.8   | NE                      | SE    | -             | -     | 2.7                  | 3.7   | 22.0                  | 29.0  |
| 15      | 24.0                 | 28.0  | 32.0                 | 39.0   | 27.0                | 35.0   | 22.0              | 25.0  | 63.0                  | 42.0   | -                         | -     | 1.2                     | 0.6   | SE                      | NE    | -             | -     | 3.0                  | 2.6   | 19.5                  | 30.5  |
| 16      | 25.0                 | 30.0  | 37.0                 | 41.0   | 29.0                | 37.0   | 23.0              | 26.0  | 57.0                  | 39.0   | -                         | -     | 0.9                     | 0.4   | NE                      | NE    | -             | -     | 2.8                  | 2.9   | 20.5                  | 31.5  |
| 17      | 26.0                 | 35.0  | 38.0                 | 43.0   | 33.0                | 37.0   | 25.0              | 26.0  | 50.0                  | 39.0   | -                         | -     | 0.0                     | 1.2   | NW                      | SE    | -             | -     | 2.6                  | 3.8   | 23.0                  | 33.0  |
| 18      | 25.0                 | 31.0  | 43.0                 | 42.0   | 31.0                | 39.0   | 24.0              | 25.0  | 54.0                  | 29.0   | -                         | -     | 0.9                     | 1.0   | NE                      | SW    | -             | -     | 2.8                  | 3.6   | 25.0                  | 30.0  |
| 19      | 25.0                 | 31.0  | 40.0                 | 42.0   | 30.0                | 38.0   | 22.0              | 24.0  | 47.0                  | 28.0   | -                         | -     | 0.0                     | 0.1   | NE                      | SE    | -             | -     | 3.1                  | 3.2   | 20.0                  | 29.5  |
| 20      | 26.0                 | 33.0  | 39.0                 | 43.0   | 33.0                | 39.0   | 24.0              | 27.0  | 45.0                  | 37.0   | -                         | -     | 0.0                     | 0.4   | NW                      | SE    | -             | -     | 3.0                  | 3.3   | 14.5                  | 29.5  |
| 21      | 27.0                 | 24.0  | 41.0                 | 44.0   | 34.0                | 39.0   | 25.0              | 24.0  | 46.0                  | 25.0   | -                         | -     | 0.1                     | 0.5   | NE                      | SE    | -             | -     | 3.1                  | 4.0   | 20.0                  | 32.0  |
| 22      | 27.0                 | 34.0  | 40.0                 | 43.0   | 33.0                | 39.0   | 24.0              | 24.0  | 46.0                  | 25.0   | -                         | -     | 0.0                     | 0.2   | NE                      | SE    | -             | -     | 3.5                  | 3.9   | 20.5                  | 29.0  |
| 23      | 27.0                 | 33.0  | 39.0                 | 42.0   | 33.0                | 38.0   | 21.0              | 23.0  | 30.0                  | 25.0   | -                         | -     | 0.0                     | 0.3   | SE                      | SW    | -             | -     | 3.2                  | 4.1   | 19.5                  | 29.5  |
| 24      | 27.0                 | 31.0  | 36.0                 | 41.0   | 31.0                | 37.0   | 25.0              | 23.0  | 48.0                  | 27.0   | -                         | -     | 0.0                     | 0.3   | SW                      | NE    | -             | -     | 3.1                  | 3.3   | 19.0                  | 28.0  |
| 25      | 25.0                 | 32.0  | 39.0                 | 42.0   | 31.0                | 37.0   | 24.0              | 24.0  | 54.0                  | 31.0   | -                         | -     | 0.1                     | 0.2   | NE                      | SE    | -             | -     | 3.0                  | 3.5   | 19.0                  | 29.0  |
| 26      | 25.0                 | 31.0  | 38.0                 | 43.0   | 32.0                | 35.0   | 25.0              | 23.0  | 55.0                  | 33.0   | -                         | -     | 0.2                     | 2.2   | SW                      | NW    | -             | -     | 2.9                  | 4.1   | 20.0                  | 25.5  |
| 27      | 24.0                 | 32.0  | 36.0                 | 42.0   | 32.0                | 38.0   | 23.0              | 26.0  | 44.0                  | 36.0   | -                         | -     | 0.6                     | 0.6   | NW                      | NW    | -             | -     | 3.0                  | 3.0   | 22.0                  | 28.5  |
| 28      | 27.0                 | 34.0  | 39.0                 | 42.0   | 33.0                | 38.0   | 26.0              | 27.0  | 55.5                  | 40.0   | -                         | -     | 1.0                     | 0.9   | NW                      | NW    | 3.6           | -     | 0.5                  | 3.2   | 20.0                  | 30.0  |
| 29      | 27.0                 | 29.0  | 39.0                 | 41.0   | 29.0                | 37.0   | 25.0              | 27.0  | 71.0                  | 44.0   | -                         | -     | 0.7                     | 0.2   | SW                      | SE    | 5.2           | -     | 2.1                  | 2.5   | 20.0                  | 30.0  |
| 30      | 28.0                 |       | 39.0                 |        | 32.0                |        | 26.0              |       | 61.0                  |        | -                         |       | 0.2                     |       | SW                      |       | -             |       | 3.3                  |       | 21.5                  |       |
| Total   | 762.0                | 893.0 | 1122.0               | 1205.0 | 902.0               | 1058.0 | 698.0             | 724.0 | 1631.5                | 1123.0 | -                         | -     | 10.7                    | 22.2  |                         |       | 11.2          | - *   | 81.6                 | 92.1  | 616.0                 | 894.0 |
| Average | 25.4                 | 29.8  | 37.4                 | 40.2   | 30.1                | 35.3   | 23.3              | 24.1  | 54.4                  | 37.4   | -                         | -     | 0.4                     | 0.7   |                         |       |               |       |                      |       | 20.5                  | 29.8  |
|         | 27.6                 |       | 38.8                 |        | 32.7                |        | 23.7              |       | 45.9                  |        | 0.0                       |       | 0.5                     |       |                         |       | 11.2 *        |       | 173.7                |       | 25.2                  |       |

## Twice Daily Climatic Data

Station Code : EM000R6  
Local River/Basin : Mahanadi

Station Name : Seorinarayan  
Sub-Division : Raipur  
- 0.0 .. N.A.

| May-18  |                      |        |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 33.0   |                      | 43.0   |                     | 33.0   |                   | 24.0  |                       | 45.0   |                           | -     |                         | 1.2   |                         | SW    |               | -     |                      | 3.2   |                       | 30.5   |
| 1       | 28.0                 | 30.0   | 35.0                 | 42.0   | 32.0                | 30.0   | 24.0              | 22.0  | 49.0                  | 47.0   | -                         | -     | 1.5                     | 1.4   | SW                      | SE    | -             | -     | 2.8                  | 2.7   | 20.0                  | 30.0   |
| 2       | 24.0                 | 31.0   | 35.0                 | 41.0   | 30.0                | 34.0   | 24.0              | 22.0  | 59.0                  | 32.0   | -                         | -     | 0.4                     | 1.0   | NE                      | SE    | -             | -     | 3.0                  | 3.3   | 20.5                  | 30.5   |
| 3       | 23.0                 | 32.0   | 27.0                 | 37.0   | 27.0                | 33.0   | 22.0              | 26.0  | 63.0                  | 55.5   | -                         | -     | 1.9                     | 0.6   | NW                      | SW    | 8.6           | -     | 1.9                  | 3.2   | 18.0                  | 30.5   |
| 4       | 26.0                 | 31.0   | 34.0                 | 39.0   | 30.0                | 36.0   | 24.0              | 27.0  | 59.0                  | 48.0   | -                         | -     | 0.1                     | 1.3   | SE                      | NE    | -             | -     | 2.3                  | 3.6   | 20.0                  | 29.5   |
| 5       | 27.0                 | 32.0   | 36.0                 | 42.0   | 32.0                | 38.0   | 26.0              | 27.0  | 61.0                  | 40.0   | -                         | -     | 0.1                     | 1.3   | NE                      | NE    | -             | -     | 2.6                  | 3.7   | 19.5                  | 30.0   |
| 6       | 31.0                 | 36.0   | 39.0                 | 44.0   | 36.0                | 38.0   | 28.0              | 28.0  | 53.0                  | 45.0   | -                         | -     | 0.4                     | 0.9   | NE                      | NW    | -             | -     | 3.5                  | 3.3   | 20.5                  | 30.5   |
| 7       | 31.0                 | 36.0   | 40.0                 | 44.0   | 35.0                | 39.0   | 27.0              | 28.0  | 52.0                  | 41.0   | -                         | -     | 0.3                     | 1.1   | SE                      | NE    | -             | -     | 3.8                  | 3.5   | 21.0                  | 31.0   |
| 8       | 31.0                 | 37.0   | 41.0                 | 44.0   | 36.0                | 40.0   | 26.0              | 25.0  | 43.0                  | 27.0   | -                         | -     | 0.4                     | 0.8   | SE                      | SE    | -             | -     | 3.7                  | 4.6   | 21.5                  | 31.5   |
| 9       | 30.0                 | 34.0   | 41.0                 | 44.0   | 31.0                | 38.0   | 25.0              | 26.0  | 59.5                  | 36.0   | -                         | -     | 0.0                     | 0.1   | SW                      | SW    | -             | -     | 4.0                  | 3.9   | 20.5                  | 30.5   |
| 10      | 29.0                 | 32.0   | 39.0                 | 45.0   | 35.0                | 39.0   | 25.0              | 27.0  | 42.0                  | 37.0   | -                         | -     | 0.4                     | 1.1   | SE                      | NE    | -             | -     | 3.7                  | 4.2   | 20.5                  | 31.0   |
| 11      | 30.0                 | 33.0   | 40.0                 | 43.0   | 33.0                | 39.0   | 26.0              | 27.0  | 55.5                  | 37.0   | -                         | -     | 0.0                     | 0.2   | SE                      | SE    | -             | -     | 3.7                  | 3.6   | 21.0                  | 31.0   |
| 12      | 27.0                 | 35.0   | 40.0                 | 43.0   | 34.0                | 38.0   | 25.0              | 28.0  | 46.0                  | 47.0   | -                         | -     | 0.2                     | 0.9   | NW                      | NW    | -             | -     | 3.5                  | 3.1   | 20.5                  | 31.0   |
| 13      | 27.0                 | 34.0   | 40.0                 | 40.0   | 34.0                | 37.0   | 25.0              | 27.0  | 46.0                  | 44.0   | -                         | -     | 0.5                     | 1.4   | SE                      | NE    | -             | -     | 3.6                  | 4.0   | 21.0                  | 35.0   |
| 14      | 26.0                 | 27.0   | 38.0                 | 39.0   | 28.0                | 36.0   | 24.0              | 27.0  | 70.0                  | 48.0   | -                         | -     | 0.9                     | 0.9   | SW                      | NE    | 0.6           | -     | 1.2                  | 2.6   | 26.0                  | 35.0   |
| 15      | 24.0                 | 28.0   | 37.0                 | 39.0   | 28.0                | 36.0   | 24.0              | 26.0  | 70.0                  | 43.0   | -                         | -     | 1.3                     | 0.5   | SE                      | E     | 6.6           | -     | 3.2                  | 2.0   | 24.0                  | 35.0   |
| 16      | 28.0                 | 35.0   | 37.0                 | 41.0   | 31.0                | 37.0   | 26.0              | 27.0  | 66.0                  | 44.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | -     | 2.0                  | 3.2   | 27.0                  | 35.0   |
| 17      | 28.0                 | 36.0   | 38.0                 | 43.0   | 34.0                | 39.0   | 26.0              | 26.0  | 51.0                  | 33.0   | -                         | -     | 0.0                     | 0.7   | NE                      | SE    | -             | -     | 3.2                  | 3.6   | 27.0                  | 36.0   |
| 18      | 28.0                 | 35.0   | 40.0                 | 42.0   | 35.0                | 38.0   | 27.0              | 27.0  | 52.0                  | 40.0   | -                         | -     | 0.2                     | 2.1   | NE                      | NE    | -             | -     | 3.5                  | 4.2   | 27.0                  | 36.0   |
| 19      | 31.0                 | 37.0   | 42.0                 | 43.0   | 35.0                | 39.0   | 27.0              | 28.0  | 52.0                  | 41.0   | -                         | -     | 1.1                     | 0.2   | NW                      | NW    | -             | -     | 4.5                  | 4.0   | 26.0                  | 37.0   |
| 20      | 31.0                 | 32.0   | 41.0                 | 43.0   | 36.0                | 39.0   | 28.0              | 29.0  | 53.0                  | 46.0   | -                         | -     | 0.2                     | 1.3   | NE                      | NE    | -             | -     | 3.0                  | 3.5   | 30.0                  | 38.0   |
| 21      | 27.0                 | 35.0   | 40.0                 | 42.0   | 32.0                | 37.0   | 26.0              | 28.0  | 61.0                  | 49.0   | -                         | -     | 1.7                     | 0.5   | SW                      | NE    | 0.4           | -     | 4.0                  | 2.9   | 27.0                  | 36.5   |
| 22      | 29.0                 | 35.0   | 39.0                 | 43.0   | 34.0                | 40.0   | 28.0              | 29.0  | 62.0                  | 42.0   | -                         | -     | 0.3                     | 0.5   | NW                      | NE    | -             | -     | 3.1                  | 3.5   | 28.0                  | 39.0   |
| 23      | 31.0                 | 36.0   | 41.0                 | 43.0   | 35.0                | 40.0   | 27.0              | 30.0  | 52.0                  | 47.0   | -                         | -     | 0.2                     | 0.3   | NE                      | NW    | -             | -     | 3.0                  | 4.0   | 29.0                  | 39.5   |
| 24      | 31.0                 | 35.0   | 41.0                 | 43.0   | 35.0                | 39.0   | 28.0              | 29.0  | 57.0                  | 46.0   | -                         | -     | 0.7                     | 0.8   | NE                      | NE    | -             | -     | 3.3                  | 4.0   | 28.5                  | 38.0   |
| 25      | 31.0                 | 32.0   | 40.0                 | 44.0   | 34.0                | 39.0   | 27.0              | 29.0  | 56.0                  | 46.0   | -                         | -     | 0.8                     | 0.7   | SE                      | NW    | -             | -     | 3.9                  | 4.3   | 28.0                  | 39.0   |
| 26      | 27.0                 | 35.0   | 40.0                 | 41.0   | 32.0                | 38.0   | 26.0              | 29.0  | 61.0                  | 50.0   | -                         | -     | 1.4                     | 0.1   | NW                      | SE    | 6.4           | -     | 2.6                  | 2.2   | 27.0                  | 37.0   |
| 27      | 30.0                 | 36.0   | 39.0                 | 41.0   | 34.0                | 38.0   | 27.0              | 29.0  | 56.0                  | 50.0   | -                         | -     | 0.3                     | 1.1   | NE                      | NE    | -             | -     | 3.4                  | 3.0   | 29.0                  | 37.0   |
| 28      | 31.0                 | 36.0   | 40.0                 | 42.0   | 35.0                | 39.0   | 28.0              | 30.0  | 57.0                  | 50.5   | -                         | -     | 0.6                     | 1.3   | SE                      | NW    | -             | -     | 3.2                  | 4.4   | 28.5                  | 39.0   |
| 29      | 31.0                 | 36.0   | 42.0                 | 44.0   | 36.0                | 40.0   | 29.0              | 30.0  | 58.0                  | 47.0   | -                         | -     | 0.7                     | 0.7   | NW                      | SE    | -             | -     | 3.5                  | 3.7   | 29.0                  | 38.0   |
| 30      | 29.0                 | 28.0   | 41.0                 | 42.0   | 31.0                | 38.0   | 27.0              | 30.0  | 72.5                  | 54.0   | -                         | -     | 1.0                     | 0.1   | SW                      | SW    | 11.8          | -     | 8.0                  | 2.9   | 27.0                  | 37.0   |
| 31      | 27.0                 |        | 39.0                 |        | 28.0                |        | 24.0              |       | 70.0                  |        | -                         |       | 2.1                     |       | SE                      |       | 0.4           |       | 3.6                  |       | 36.0                  |        |
| Total   | 884.0                | 1040.0 | 1202.0               | 1306.0 | 1018.0              | 1164.0 | 806.0             | 847.0 | 1764.5                | 1358.0 | -                         | -     | 19.7                    | 26.0  |                         |       | 34.8          | -     | 104.3                | 107.9 | 768.5                 | 1064.5 |
| Average | 28.5                 | 33.5   | 38.8                 | 42.1   | 32.8                | 37.5   | 26.0              | 27.3  | 56.9                  | 43.8   | -                         | -     | 0.6                     | 0.8   |                         |       |               |       |                      |       | 24.8                  | 34.3   |
|         | 31.0                 |        | 40.5                 |        | 35.2                |        | 26.7              |       | 50.4                  |        | 0.0                       |       | 0.7                     |       |                         |       | 34.8          |       | 212.2                |       | 29.6                  |        |

## Twice Daily Climatic Data

Station Code : EM000R2  
Local River/Basin : Mahanadi

Station Name : Basantpur  
Sub-Division : MMSD I,CWC,Raipur  
- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 33.0  |                      | 40.0   |                     | 38.0   |                   | 28.0  |                       | 45.0   |                           | -     |                         | 3.0   |                         | SW    |               | -     |                      | 3.8   |                       | 36.0   |
| 1       | 29.0                 | 29.0  | 33.0                 | 38.0   | 32.0                | 37.0   | 27.0              | 29.0  | 68.0                  | 53.0   | 2.0                       | 2.0   | 3.4                     | 6.9   | SE                      | SE    | -             | -     | 3.8                  | 4.4   | 28.0                  | 35.0   |
| 2       | 28.5                 | 30.0  | 33.5                 | 38.0   | 31.0                | 36.0   | 27.0              | 28.0  | 74.0                  | 50.0   | 2.0                       | 6.0   | 0.3                     | 6.9   | SE                      | NE    | -             | -     | 4.0                  | 4.2   | 28.0                  | 36.0   |
| 3       | 29.0                 | 30.0  | 36.0                 | 42.0   | 36.0                | 42.0   | 29.0              | 31.0  | 59.0                  | 44.0   | 4.0                       | -     | 1.7                     | 6.9   | SW                      | NE    | -             | -     | 3.8                  | 2.2   | 30.0                  | 36.0   |
| 4       | 30.0                 | 31.0  | 36.0                 | 40.0   | 36.0                | 41.0   | 30.0              | 32.0  | 64.0                  | 51.0   | 4.0                       | 4.0   | 1.9                     | 5.9   | NE                      | SW    | -             | -     | 2.0                  | 3.6   | 30.0                  | 35.0   |
| 5       | 31.0                 | 31.0  | 38.0                 | 41.0   | 37.0                | 42.0   | 32.0              | 32.0  | 64.0                  | 48.0   | 2.0                       | -     | 5.1                     | 0.8   | SE                      | SW    | -             | -     | 3.8                  | 3.4   | 31.0                  | 36.0   |
| 6       | 28.0                 | 27.0  | 33.0                 | 38.0   | 33.0                | 37.0   | 29.0              | 30.0  | 73.5                  | 58.5   | -                         | 2.0   | 6.6                     | 4.6   | NW                      | NW    | 6.2           | -     | 2.2                  | 3.8   | 29.0                  | 35.0   |
| 7       | 27.0                 | 32.0  | 34.0                 | 40.0   | 32.0                | 38.0   | 28.0              | 31.0  | 73.0                  | 59.0   | 2.0                       | 2.0   | 1.4                     | 2.9   | SE                      | SE    | -             | -     | 4.0                  | 4.0   | 29.5                  | 36.0   |
| 8       | 27.0                 | 33.0  | 32.0                 | 41.0   | 31.0                | 36.0   | 28.0              | 30.0  | 78.5                  | 63.0   | -                         | 2.0   | 2.2                     | 2.8   | SW                      | SW    | 1.4           | -     | 3.4                  | 4.0   | 28.5                  | 36.0   |
| 9       | 29.0                 | 32.0  | 35.0                 | 40.0   | 33.0                | 37.0   | 29.0              | 31.0  | 73.5                  | 63.5   | -                         | 2.0   | 2.0                     | 2.2   | NE                      | SE    | -             | -     | 3.6                  | 3.8   | 30.0                  | 35.0   |
| 10      | 29.0                 | 32.0  | 34.0                 | 40.0   | 33.0                | 38.0   | 29.0              | 31.0  | 73.5                  | 59.0   | 2.0                       | 4.0   | 3.3                     | 3.3   | NW                      | NE    | -             | -     | 3.2                  | 2.2   | 30.0                  | 37.0   |
| 11      | 29.0                 | 32.0  | 33.0                 | 39.0   | 32.0                | 37.0   | 28.0              | 30.0  | 73.0                  | 58.5   | -                         | 4.0   | 4.1                     | 3.3   | SE                      | SW    | -             | -     | 3.6                  | 3.6   | 29.0                  | 36.0   |
| 12      | 28.0                 | 28.0  | 32.0                 | 33.0   | 30.0                | 34.0   | 26.0              | 27.0  | 72.0                  | 56.0   | -                         | -     | 3.1                     | 7.1   | SW                      | SE    | -             | -     | 2.8                  | 2.6   | 28.5                  | 38.0   |
| 13      | 27.0                 | 30.0  | 30.0                 | 36.0   | 30.0                | 36.0   | 27.0              | 30.0  | 78.0                  | 63.0   | -                         | 2.0   | 1.7                     | 6.5   | NE                      | SW    | 2.8           | -     | -                    | 2.4   | 28.0                  | 35.5   |
| 14      | 29.0                 | 31.0  | 32.0                 | 34.0   | 31.0                | 35.0   | 28.0              | 31.0  | 78.0                  | 74.0   | -                         | -     | 1.4                     | 4.8   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 29.5                  | 36.0   |
| 15      | 29.0                 | 29.0  | 32.5                 | 37.0   | 32.0                | 36.0   | 29.0              | 29.0  | 79.0                  | 58.0   | 2.0                       | 2.0   | 7.6                     | 5.3   | SW                      | SW    | -             | -     | 2.8                  | 2.0   | 29.0                  | 37.0   |
| 16      | 27.0                 | 27.0  | 31.0                 | 38.0   | 30.0                | 36.0   | 27.0              | 30.0  | 78.0                  | 63.0   | 4.0                       | 2.0   | 4.9                     | 6.4   | SW                      | SW    | -             | -     | 4.0                  | 3.8   | 29.0                  | 34.5   |
| 17      | 28.0                 | 34.0  | 34.0                 | 39.0   | 33.0                | 38.0   | 28.0              | 32.0  | 67.5                  | 64.0   | 4.0                       | -     | 1.9                     | 4.7   | SW                      | SE    | -             | -     | 2.2                  | 3.4   | 29.5                  | 35.5   |
| 18      | 29.0                 | 30.0  | 34.0                 | 40.0   | 33.0                | 38.0   | 29.0              | 31.0  | 73.5                  | 59.0   | -                         | -     | 2.6                     | 6.9   | SE                      | NW    | -             | -     | 3.0                  | 4.0   | 29.0                  | 37.0   |
| 19      | 25.0                 | 25.0  | 29.0                 | 37.0   | 29.0                | 35.0   | 27.0              | 31.0  | 85.0                  | 74.0   | -                         | -     | 4.1                     | 3.0   | SE                      | SE    | 36.0          | 6.0   | 4.0                  | 2.0   | 27.0                  | 37.5   |
| 20      | 26.0                 | 28.0  | 31.0                 | 38.0   | 30.0                | 36.0   | 27.0              | 32.0  | 78.0                  | 75.0   | -                         | -     | 1.9                     | 3.0   | SW                      | SW    | 2.0           | -     | 2.4                  | 3.2   | 29.0                  | 36.5   |
| 21      | 25.0                 | 25.0  | 30.0                 | 35.0   | 27.0                | 34.0   | 26.0              | 30.0  | 92.0                  | 74.0   | -                         | 4.0   | 3.8                     | 4.1   | SW                      | SW    | 11.0          | 30.6  | 3.0                  | 2.2   | 27.0                  | 36.5   |
| 22      | 26.0                 | 29.0  | 30.0                 | 34.0   | 29.0                | 34.0   | 27.0              | 30.0  | 85.0                  | 74.0   | -                         | -     | 2.3                     | 5.8   | SW                      | SW    | 0.6           | -     | 2.6                  | 2.0   | 27.5                  | 34.5   |
| 23      | 26.0                 | 27.0  | 27.0                 | 33.0   | 27.0                | 31.0   | 26.0              | 29.0  | 92.0                  | 85.5   | -                         | -     | 1.6                     | 3.5   | SW                      | NW    | 16.4          | 42.8  | 2.0                  | 2.0   | 26.5                  | 37.0   |
| 24      | 27.0                 | 30.0  | 30.0                 | 33.0   | 30.0                | 36.0   | 28.0              | 31.0  | 85.0                  | 69.0   | 2.0                       | -     | 1.8                     | 3.3   | NE                      | SW    | -             | -     | 2.4                  | 2.2   | 28.5                  | 38.0   |
| 25      | 24.0                 | 26.0  | 26.0                 | 32.0   | 26.0                | 31.0   | 25.0              | 28.0  | 92.0                  | 74.0   | -                         | -     | 2.2                     | 3.5   | SE                      | SW    | 15.6          | -     | 2.4                  | 2.0   | 26.0                  | 34.0   |
| 26      | 26.0                 | 27.0  | 28.0                 | 30.0   | 26.0                | 29.0   | 25.5              | 27.0  | 96.0                  | 85.0   | -                         | -     | 1.2                     | 2.0   | NW                      | NW    | 18.8          | -     | 2.0                  | 1.0   | 26.0                  | 37.5   |
| 27      | 27.0                 | 26.0  | 29.0                 | 30.0   | 28.0                | 29.0   | 27.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.1                     | 4.4   | NE                      | SW    | -             | -     | 2.0                  | 0.8   | 28.0                  | 32.0   |
| 28      | 27.0                 | 27.0  | 28.0                 | 30.0   | 27.0                | 29.0   | 26.0              | 28.0  | 92.0                  | 92.0   | 2.0                       | -     | 2.7                     | 2.2   | SW                      | SW    | -             | -     | 1.2                  | 1.8   | 27.0                  | 31.5   |
| 29      | 26.0                 | 26.0  | 28.0                 | 30.0   | 28.0                | 29.0   | 26.0              | 27.0  | 85.0                  | 85.0   | 4.0                       | 2.0   | 3.7                     | 5.8   | NW                      | NW    | 1.8           | -     | 1.2                  | 1.0   | 27.0                  | 33.0   |
| 30      | 26.0                 |       | 30.0                 |        | 29.0                |        | 27.0              |       | 85.0                  |        | 4.0                       |       | 2.7                     |       | SW                      |       | 5.4           |       | 1.4                  |       | 28.0                  |        |
| Total   | 824.5                | 877.0 | 949.0                | 1096.0 | 921.0               | 1065.0 | 827.5             | 893.0 | 2359.0                | 1962.0 | 42.0                      | 40.0  | 82.8                    | 132.0 |                         |       | 118.0         | 79.4  | 80.8                 | 83.4  | 853.0                 | 1070.5 |
| Average | 27.5                 | 29.2  | 31.6                 | 36.5   | 30.7                | 35.5   | 27.6              | 29.8  | 78.6                  | 65.4   | 1.4                       | 1.3   | 2.8                     | 4.4   |                         |       |               |       |                      |       | 28.4                  | 35.7   |
|         | 28.4                 |       | 34.1                 |        | 33.1                |        | 28.7              |       | 72.0                  |        | 1.4                       |       | 3.6                     |       |                         |       | 197.4         |       | 164.2                |       | 32.1                  |        |

## Twice Daily Climatic Data

Station Code : EM000R2  
Local River/Basin : Mahanadi

Station Name : Basantpur  
Sub-Division : MMSD I,CWC,Raipur  
- 0.0 .. N.A.

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 28.0  |                      | 29.0  |                     | 28.0  |                   | 27.0  |                       | 92.0   |                           | -     |                         | 5.5   |                         | SW    |               | ..    |                      | 1.6   |                       | 32.5  |
| 1       | 27.0                 | 26.0  | 29.0                 | 30.0  | 28.0                | 28.0  | 26.0              | 27.0  | 85.0                  | 92.0   | 2.0                       | -     | 3.6                     | 5.2   | SW                      | NW    | -             | -     | 1.4                  | 1.0   | 27.0                  | 31.0  |
| 2       | 25.0                 | 26.0  | 26.0                 | 29.0  | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 3.3                     | 6.7   | NE                      | SW    | 6.4           | 4.0   | 1.6                  | 1.2   | 26.0                  | 29.5  |
| 3       | 25.0                 | 25.0  | 26.0                 | 28.0  | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | -     | 4.8                     | 2.9   | SW                      | SW    | 43.4          | 7.0   | 1.4                  | 1.4   | 25.5                  | 28.0  |
| 4       | 26.0                 | 27.0  | 28.0                 | 28.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 4.0                       | 4.0   | 3.5                     | 6.6   | NE                      | NW    | 2.0           | 1.4   | 0.8                  | 1.6   | 26.0                  | 28.5  |
| 5       | 26.0                 | 27.0  | 27.0                 | 32.0  | 27.0                | 31.0  | 25.0              | 28.0  | 84.0                  | 78.5   | -                         | 2.0   | 5.1                     | 6.1   | SE                      | NW    | -             | -     | 0.8                  | 1.8   | 25.5                  | 33.0  |
| 6       | 26.0                 | 28.0  | 28.0                 | 32.0  | 28.0                | 30.0  | 26.0              | 27.0  | 88.0                  | 78.0   | 6.0                       | 4.0   | 3.3                     | 3.0   | NE                      | SE    | 46.6          | -     | 0.8                  | 2.0   | 26.5                  | 33.5  |
| 7       | 25.0                 | 30.0  | 31.0                 | 34.0  | 30.0                | 33.0  | 27.0              | 29.0  | 78.0                  | 73.5   | 4.0                       | -     | 3.4                     | 4.4   | NE                      | SE    | -             | -     | 2.0                  | 1.8   | 29.0                  | 37.0  |
| 8       | 26.0                 | 27.0  | 30.0                 | 31.0  | 30.0                | 31.0  | 28.0              | 27.0  | 85.0                  | 72.5   | -                         | 2.0   | 0.5                     | 4.5   | NE                      | SW    | 2.2           | -     | 1.4                  | 3.0   | 28.5                  | 37.5  |
| 9       | 27.0                 | 29.0  | 31.0                 | 30.0  | 30.0                | 29.0  | 28.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 1.8                     | 5.7   | NE                      | SE    | -             | -     | 1.0                  | 1.8   | 29.0                  | 33.0  |
| 10      | 25.0                 | 26.0  | 27.0                 | 27.0  | 26.0                | 26.0  | 25.5              | 25.0  | 96.0                  | 92.0   | 2.0                       | -     | 3.6                     | 4.2   | SW                      | NW    | 18.8          | 6.0   | 2.0                  | 1.4   | 25.0                  | 27.5  |
| 11      | 25.0                 | 26.0  | 26.0                 | 29.0  | 26.0                | 28.0  | 25.5              | 26.0  | 96.0                  | 92.0   | 2.0                       | 2.0   | 2.8                     | 4.9   | SE                      | SE    | 3.0           | -     | 0.6                  | 0.6   | 25.0                  | 28.0  |
| 12      | 25.0                 | 26.0  | 26.0                 | 30.0  | 26.0                | 30.0  | 25.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 1.9                     | 4.6   | NE                      | NE    | 3.2           | -     | 0.4                  | 0.8   | 25.5                  | 33.0  |
| 13      | 26.0                 | 28.0  | 28.0                 | 29.0  | 26.0                | 28.0  | 25.5              | 27.0  | 96.0                  | 92.0   | 2.0                       | -     | 1.4                     | 4.8   | NE                      | SE    | -             | 4.6   | 2.0                  | 0.8   | 26.5                  | 32.0  |
| 14      | 27.0                 | 28.0  | 29.0                 | 30.0  | 28.0                | 28.0  | 26.0              | 27.0  | 85.0                  | 92.0   | -                         | -     | 0.8                     | 4.8   | SE                      | SE    | -             | -     | 2.0                  | 1.0   | 27.0                  | 32.0  |
| 15      | 26.0                 | 27.0  | 28.0                 | 29.0  | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 1.4                     | 10.0  | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 27.0                  | 31.0  |
| 16      | 25.0                 | 26.0  | 29.0                 | 28.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.5                  | 93.0   | -                         | -     | 1.3                     | 3.4   | SE                      | SE    | 1.0           | 1.8   | 1.0                  | 1.2   | 26.5                  | 30.0  |
| 17      | 26.0                 | 27.0  | 29.0                 | 30.0  | 29.0                | 32.0  | 27.0              | 29.0  | 92.0                  | 79.0   | -                         | -     | 1.3                     | 2.2   | NE                      | NE    | 21.2          | -     | 0.8                  | 1.2   | 26.0                  | 31.0  |
| 18      | 27.0                 | 30.0  | 28.0                 | 31.0  | 29.0                | 30.0  | 28.0              | 26.5  | 85.0                  | 81.0   | -                         | -     | 1.3                     | 3.1   | SW                      | NW    | 6.6           | -     | 2.0                  | 1.6   | 28.5                  | 34.5  |
| 19      | 28.0                 | 27.0  | 29.0                 | 29.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | -     | 0.5                     | 1.8   | SW                      | NE    | -             | -     | 0.8                  | 1.6   | 28.0                  | 34.5  |
| 20      | 26.0                 | 27.0  | 27.0                 | 29.0  | 27.0                | 29.0  | 26.0              | 27.0  | 96.0                  | 85.0   | 2.0                       | 2.0   | 3.9                     | 6.7   | NE                      | NE    | 12.6          | -     | 1.6                  | 0.8   | 27.0                  | 30.0  |
| 21      | 25.0                 | 26.0  | 27.0                 | 31.0  | 26.0                | 30.0  | 25.5              | 27.0  | 96.0                  | 78.0   | 1.0                       | -     | 2.1                     | 5.7   | NE                      | SW    | 19.8          | -     | 0.6                  | 1.8   | 26.0                  | 31.0  |
| 22      | 28.0                 | 27.0  | 30.0                 | 31.0  | 29.0                | 30.0  | 27.5              | 27.5  | 89.0                  | 82.0   | -                         | -     | 0.9                     | 5.0   | NE                      | NE    | -             | -     | 0.6                  | 1.0   | 28.5                  | 31.5  |
| 23      | 26.0                 | 26.0  | 27.0                 | 29.0  | 26.0                | 28.0  | 25.5              | 26.5  | 96.0                  | 88.0   | -                         | 2.0   | 2.6                     | 3.8   | NE                      | NE    | 1.8           | 0.6   | 1.2                  | 1.2   | 26.0                  | 28.0  |
| 24      | 25.0                 | 25.0  | 26.0                 | 29.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 6.0                       | 4.0   | 3.7                     | 4.0   | NE                      | NE    | 5.8           | -     | 1.0                  | 0.1   | 25.0                  | 28.0  |
| 25      | 25.0                 | 27.0  | 27.0                 | 30.0  | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.5   | 2.0                       | -     | 3.3                     | 5.5   | NE                      | SE    | -             | -     | 1.2                  | 0.0   | 25.0                  | 29.5  |
| 26      | 26.0                 | 26.0  | 27.0                 | 27.0  | 26.0                | 26.0  | 25.0              | 25.5  | 92.0                  | 96.0   | 2.0                       | 2.0   | 4.2                     | 8.0   | NE                      | NE    | -             | -     | 0.6                  | 1.0   | 25.0                  | 25.5  |
| 27      | 25.0                 | 26.0  | 26.0                 | 29.0  | 26.0                | 28.0  | 25.0              | 26.5  | 92.0                  | 88.0   | -                         | 2.0   | 6.1                     | 6.2   | SW                      | NE    | 3.6           | 9.0   | 0.6                  | 1.8   | 25.0                  | 29.5  |
| 28      | 25.0                 | 27.0  | 27.0                 | 30.0  | 27.0                | 30.0  | 25.0              | 27.5  | 84.0                  | 82.0   | 2.0                       | 4.0   | 1.0                     | 3.5   | SW                      | NE    | 2.0           | 1.6   | 1.2                  | 0.6   | 26.5                  | 31.0  |
| 29      | 26.0                 | 30.0  | 31.0                 | 34.0  | 29.0                | 32.0  | 27.0              | 27.5  | 85.0                  | 70.0   | 2.0                       | 2.0   | 1.2                     | 5.4   | NE                      | NE    | -             | -     | 0.8                  | 2.6   | 29.5                  | 35.0  |
| 30      | 27.0                 | 30.0  | 29.0                 | 35.0  | 30.0                | 31.0  | 27.0              | 28.0  | 78.0                  | 78.5   | 2.0                       | -     | 1.6                     | 2.0   | NE                      | NW    | -             | -     | 2.0                  | 1.4   | 28.0                  | 34.0  |
| 31      | 26.0                 |       | 29.0                 |       | 29.0                |       | 27.0              |       | 85.0                  |        | 2.0                       |       | 1.5                     |       | SW                      |       | -             |       | 3.4                  |       | 27.0                  |       |
| Total   | 803.0                | 841.0 | 868.0                | 929.0 | 852.0               | 902.0 | 809.0             | 838.5 | 2776.5                | 2655.5 | 49.0                      | 34.0  | 77.6                    | 150.2 |                         |       | 200.0         | 36.0  | 39.6                 | 40.7  | 826.5                 | 970.0 |
| Average | 25.9                 | 27.1  | 28.0                 | 30.0  | 27.5                | 29.1  | 26.1              | 27.0  | 89.6                  | 85.7   | 1.6                       | 1.1   | 2.5                     | 4.8   |                         |       |               |       |                      |       | 26.7                  | 31.3  |
|         | 26.5                 |       | 29.0                 |       | 28.3                |       | 26.6              |       | 87.6                  |        | 1.3                       |       | 3.7                     |       |                         |       | 236.0 *       |       | 80.3                 |       | 29.0                  |       |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

- 0.0 .. N.A.

| Aug-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 31.0  |                      | 36.0   |                     | 32.0  |                   | 28.5  |                       | 76.0   |                           | 2.0   |                         | 5.1   |                         | SW    |               | -     |                      | 27.5  |                       | 35.0   |
| 1       | 25.0                 | 29.0  | 29.0                 | 33.0   | 28.0                | 32.0  | 26.5              | 28.0  | 88.0                  | 73.0   | 2.0                       | 4.0   | 0.6                     | 5.4   | NW                      | NE    | 31.2          | -     | 1.2                  | 2.0   | 27.0                  | 35.0   |
| 2       | 26.0                 | 30.0  | 30.0                 | 32.0   | 29.0                | 33.0  | 27.0              | 29.0  | 85.0                  | 85.5   | 6.0                       | 2.0   | 1.5                     | 5.7   | SW                      | SE    | -             | -     | 2.0                  | 3.0   | 28.0                  | 36.0   |
| 3       | 29.0                 | 29.0  | 30.0                 | 34.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | -     | 2.0                     | 7.7   | SE                      | NE    | 11.0          | -     | 2.0                  | 2.4   | 28.5                  | 34.0   |
| 4       | 28.0                 | 27.0  | 29.0                 | 32.0   | 28.0                | 30.0  | 26.5              | 27.0  | 85.0                  | 78.0   | -                         | -     | 1.8                     | 4.5   | NE                      | NE    | 1.4           | -     | 0.9                  | 0.8   | 27.5                  | 31.5   |
| 5       | 26.0                 | 26.0  | 30.0                 | 28.0   | 27.0                | 28.0  | 26.5              | 27.0  | 96.0                  | 92.0   | -                         | -     | 1.4                     | 3.8   | SE                      | SE    | 1.6           | -     | 0.6                  | 1.4   | 26.5                  | 30.0   |
| 6       | 26.0                 | 27.0  | 28.0                 | 33.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | -     | 1.0                     | 3.9   | NE                      | SE    | 0.6           | -     | 1.4                  | 1.2   | 25.0                  | 33.0   |
| 7       | 26.0                 | 27.0  | 31.0                 | 31.0   | 27.0                | 29.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 2.1                     | 3.6   | NE                      | NE    | 8.4           | 6.0   | 1.0                  | 1.8   | 27.0                  | 32.0   |
| 8       | 26.0                 | 27.0  | 30.0                 | 33.0   | 28.0                | 28.5  | 27.0              | 27.0  | 92.0                  | 92.5   | -                         | -     | 0.5                     | 2.6   | SW                      | SE    | -             | 14.6  | 0.8                  | 0.2   | 28.5                  | 31.0   |
| 9       | 25.0                 | 26.0  | 29.0                 | 32.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | 4.0   | 0.7                     | 5.8   | SW                      | NE    | -             | -     | 1.0                  | 2.6   | 27.5                  | 34.0   |
| 10      | 25.0                 | 26.0  | 31.0                 | 30.0   | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | 4.0                       | 4.0   | 4.2                     | 6.4   | SW                      | NE    | -             | -     | 2.2                  | 1.4   | 26.0                  | 29.0   |
| 11      | 25.0                 | 27.0  | 29.0                 | 34.0   | 28.0                | 29.0  | 25.5              | 27.5  | 81.0                  | 89.0   | 4.0                       | 4.0   | 2.2                     | 6.0   | SW                      | NE    | 1.2           | -     | 1.8                  | 2.0   | 26.5                  | 33.0   |
| 12      | 27.0                 | 27.0  | 30.0                 | 34.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 72.5   | 2.0                       | 4.0   | 3.2                     | 7.0   | NE                      | NE    | -             | -     | 2.0                  | 1.2   | 27.0                  | 33.5   |
| 13      | 26.0                 | 29.0  | 31.0                 | 34.0   | 29.0                | 31.0  | 27.0              | 27.5  | 85.0                  | 75.5   | 2.0                       | -     | 3.5                     | 5.1   | NE                      | SE    | -             | -     | 2.0                  | 1.4   | 27.0                  | 35.0   |
| 14      | 26.0                 | 27.0  | 32.0                 | 34.0   | 27.0                | 29.0  | 25.5              | 25.5  | 88.0                  | 74.0   | -                         | -     | 2.4                     | 5.4   | NE                      | SE    | -             | -     | 1.4                  | 2.0   | 27.0                  | 33.5   |
| 15      | 27.0                 | 28.0  | 32.0                 | 33.0   | 27.0                | 29.0  | 26.0              | 25.0  | 92.0                  | 71.0   | -                         | 2.0   | 1.4                     | 3.7   | SW                      | SE    | 1.2           | -     | 1.0                  | 2.0   | 27.0                  | 33.0   |
| 16      | 26.0                 | 27.0  | 32.0                 | 34.0   | 27.0                | 29.0  | 27.0              | 27.5  | 88.0                  | 74.0   | -                         | 2.0   | 2.4                     | 5.4   | NE                      | SE    | -             | -     | 1.4                  | 2.0   | 27.0                  | 33.5   |
| 17      | 27.0                 | 27.0  | 30.0                 | 34.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 72.5   | 2.0                       | 4.0   | 3.5                     | 5.1   | SW                      | SE    | 1.2           | -     | 1.0                  | 2.0   | 26.5                  | 33.0   |
| 18      | 26.0                 | 27.0  | 32.0                 | 33.0   | 27.0                | 29.0  | 26.0              | 25.0  | 92.0                  | 71.0   | -                         | 2.0   | 2.4                     | 5.4   | NE                      | SE    | 1.2           | -     | 1.0                  | 2.0   | 27.0                  | 33.0   |
| 19      | 27.0                 | 28.0  | 32.0                 | 34.0   | 27.0                | 29.0  | 27.0              | 27.5  | 88.0                  | 74.0   | -                         | 2.0   | 3.5                     | 5.1   | SW                      | NE    | -             | -     | 1.4                  | 1.4   | 26.0                  | 29.0   |
| 20      | 25.0                 | 26.0  | 31.0                 | 30.0   | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 3.2                     | 7.0   | SW                      | SE    | 1.2           | -     | 2.2                  | 1.4   | 26.0                  | 29.0   |
| 21      | 25.0                 | 25.0  | 31.0                 | 34.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 1.3                     | 1.8   | SE                      | NW    | -             | -     | 1.6                  | 1.6   | 27.0                  | 35.5   |
| 22      | 25.0                 | 28.0  | 32.0                 | 32.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.9                     | 3.9   | SE                      | SE    | 13.0          | -     | 1.2                  | 2.0   | 27.5                  | 34.0   |
| 23      | 27.0                 | 30.0  | 32.0                 | 35.0   | 30.0                | 33.0  | 27.0              | 28.0  | 78.0                  | 67.5   | 2.0                       | 2.0   | 0.7                     | 3.4   | SE                      | SW    | -             | -     | 1.0                  | 2.2   | 29.0                  | 36.5   |
| 24      | 25.0                 | 26.0  | 35.0                 | 29.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | -     | 1.5                     | 3.0   | SW                      | SW    | 1.2           | -     | 1.8                  | 2.0   | 27.5                  | 34.0   |
| 25      | 26.0                 | 28.0  | 28.0                 | 33.0   | 28.0                | 31.0  | 27.0              | 28.0  | 92.0                  | 85.5   | 2.0                       | -     | 1.3                     | 1.7   | SW                      | SW    | 1.2           | -     | 1.6                  | 1.4   | 27.5                  | 35.0   |
| 26      | 25.0                 | 29.0  | 28.0                 | 34.0   | 29.0                | 31.0  | 27.0              | 28.0  | 85.0                  | 85.5   | 2.0                       | 2.0   | 0.6                     | 1.3   | SW                      | SW    | 3.2           | -     | 1.2                  | 1.4   | 29.5                  | 35.5   |
| 27      | 27.0                 | 25.0  | 31.0                 | 32.0   | 30.0                | 29.0  | 28.0              | 28.0  | 85.0                  | 92.0   | -                         | -     | 0.2                     | 1.0   | SW                      | SW    | -             | 18.0  | 1.2                  | 1.6   | 29.0                  | 35.0   |
| 28      | 26.0                 | 25.0  | 30.0                 | 33.0   | 29.0                | 27.0  | 27.0              | 26.0  | 85.0                  | 92.0   | -                         | -     | 0.2                     | 1.8   | NE                      | SW    | -             | 8.6   | 1.2                  | 1.6   | 27.0                  | 30.5   |
| 29      | 25.0                 | 25.0  | 28.0                 | 33.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 2.7                     | 3.5   | SE                      | NW    | 1.0           | 1.4   | 1.8                  | 2.2   | 26.5                  | 33.0   |
| 30      | 25.5                 | 27.0  | 28.0                 | 34.0   | 27.0                | 32.0  | 26.0              | 29.5  | 92.0                  | 82.0   | -                         | -     | 1.4                     | 1.5   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 26.5                  | 35.5   |
| 31      | 27.0                 |       | 34.0                 |        | 29.0                |       | 27.0              |       | 85.0                  |        | -                         |       | 0.3                     |       | SE                      |       | -             |       | 1.2                  |       | 28.5                  |        |
| Total   | 807.5                | 846.0 | 945.0                | 1017.0 | 860.0               | 926.5 | 815.5             | 842.5 | 2724.0                | 2490.0 | 38.0                      | 44.0  | 54.2                    | 132.7 |                         |       | 79.8          | 48.6  | 44.1                 | 79.7  | 844.0                 | 1030.5 |
| Average | 26.0                 | 27.3  | 30.5                 | 32.8   | 27.7                | 29.9  | 26.3              | 27.2  | 87.9                  | 80.3   | 1.2                       | 1.4   | 1.7                     | 4.3   |                         |       |               |       |                      |       | 27.2                  | 33.2   |
|         | 26.7                 |       | 31.6                 |        | 28.8                |       | 26.7              |       | 84.1                  |        | 1.3                       |       | 3.0                     |       |                         |       | 128.4         |       | 123.8                |       | 30.2                  |        |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

- 0.0 .. N.A.

| Sep-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 28.0  |                      | 29.0   |                     | 29.0  |                   | 26.5  |                       | 81.0   |                           | -     |                         | 4.7   |                         | NE    |               | -     |                      | 2.0   |                       | 30.5   |
| 1       | 26.0                 | 28.0  | 29.0                 | 34.0   | 29.0                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 1.5                     | 3.6   | NE                      | SW    | -             | 22.6  | 1.0                  | 2.0   | 27.5                  | 33.5   |
| 2       | 25.0                 | 29.0  | 29.0                 | 32.0   | 28.0                | 27.0  | 27.0              | 26.5  | 92.0                  | 96.0   | -                         | -     | 0.7                     | 3.1   | SE                      | NE    | 3.6           | -     | 1.6                  | 1.6   | 27.5                  | 29.5   |
| 3       | 25.0                 | 27.0  | 29.0                 | 34.0   | 28.0                | 33.0  | 27.0              | 28.0  | 92.0                  | 67.5   | -                         | 2.0   | 0.4                     | 3.8   | NW                      | SE    | -             | -     | 1.4                  | 1.4   | 27.5                  | 36.5   |
| 4       | 26.0                 | 29.0  | 30.0                 | 35.0   | 29.0                | 33.0  | 27.0              | 28.0  | 85.0                  | 67.5   | -                         | -     | 1.0                     | 3.6   | SW                      | SE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 37.0   |
| 5       | 26.0                 | 30.0  | 34.0                 | 36.0   | 30.0                | 33.0  | 28.0              | 30.0  | 85.0                  | 79.5   | 2.0                       | -     | 0.6                     | 2.7   | SE                      | SE    | -             | -     | 2.0                  | 3.0   | 29.0                  | 38.0   |
| 6       | 27.0                 | 30.0  | 29.0                 | 36.0   | 30.0                | 33.0  | 28.0              | 30.0  | 85.0                  | 79.5   | 2.0                       | -     | 0.7                     | 0.8   | NW                      | SW    | -             | -     | 1.6                  | 1.2   | 29.5                  | 38.0   |
| 7       | 6.5                  | 30.0  | 29.0                 | 36.5   | 30.0                | 34.0  | 27.0              | 31.0  | 78.0                  | 80.0   | -                         | -     | 0.7                     | 0.2   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 38.5   |
| 8       | 27.0                 | 30.0  | 30.5                 | 36.0   | 30.0                | 30.0  | 28.0              | 26.0  | 85.0                  | 72.0   | -                         | -     | 1.0                     | 2.5   | NW                      | SW    | -             | -     | 2.0                  | 1.8   | 29.0                  | 38.0   |
| 9       | 25.0                 | 26.0  | 29.5                 | 35.0   | 28.0                | 30.0  | 26.5              | 27.0  | 88.0                  | 78.0   | -                         | 6.0   | 0.7                     | 2.0   | SE                      | NE    | 19.0          | -     | 1.6                  | 1.4   | 29.0                  | 38.0   |
| 10      | 24.0                 | 27.0  | 30.0                 | 34.0   | 28.0                | 32.0  | 27.0              | 28.5  | 92.0                  | 76.0   | -                         | -     | 1.1                     | 0.6   | NE                      | SE    | 15.6          | 37.8  | 1.8                  | 2.8   | 26.5                  | 36.0   |
| 11      | 27.0                 | 24.0  | 32.0                 | 35.0   | 31.0                | 25.5  | 29.0              | 25.0  | 85.5                  | 96.0   | -                         | -     | 0.1                     | 1.1   | SE                      | SW    | -             | -     | 1.0                  | 1.8   | 29.0                  | 29.0   |
| 12      | 25.0                 | 27.0  | 27.0                 | 34.0   | 27.5                | 27.0  | 27.0              | 22.0  | 96.0                  | 63.0   | -                         | -     | 0.1                     | 2.9   | NW                      | SE    | -             | -     | 1.0                  | 2.2   | 26.5                  | 35.0   |
| 13      | 26.0                 | 25.0  | 32.0                 | 33.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 1.7                     | 1.3   | NE                      | SE    | -             | -     | 1.4                  | 1.2   | 27.0                  | 32.5   |
| 14      | 25.0                 | 27.0  | 31.0                 | 34.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 72.5   | -                         | -     | 1.0                     | 4.2   | SW                      | NE    | -             | -     | 1.0                  | 1.8   | 27.0                  | 34.0   |
| 15      | 25.0                 | 32.0  | 29.0                 | 34.0   | 28.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 73.0   | -                         | -     | 1.6                     | 2.0   | NE                      | SE    | -             | -     | 2.0                  | 0.6   | 26.5                  | 34.0   |
| 16      | 27.0                 | 28.0  | 35.0                 | 34.0   | 29.0                | 31.0  | 27.0              | 28.0  | 85.0                  | 78.5   | -                         | -     | 0.2                     | 3.8   | NE                      | SE    | -             | -     | 1.4                  | 2.0   | 28.0                  | 34.5   |
| 17      | 27.0                 | 25.0  | 33.0                 | 35.0   | 29.0                | 26.0  | 27.5              | 25.0  | 89.0                  | 92.0   | 2.0                       | -     | 0.5                     | 3.3   | NW                      | SE    | -             | -     | 0.8                  | 1.2   | 29.0                  | 30.0   |
| 18      | 24.0                 | 26.0  | 26.0                 | 33.0   | 27.0                | 27.0  | 25.5              | 26.0  | 88.0                  | 92.0   | -                         | 2.0   | 0.9                     | 3.8   | NE                      | SE    | -             | 6.6   | 1.0                  | 0.8   | 26.0                  | 31.5   |
| 19      | 24.0                 | 25.0  | 27.0                 | 28.0   | 26.0                | 26.0  | 25.5              | 25.0  | 96.0                  | 92.0   | -                         | 2.0   | 2.3                     | 1.6   | SE                      | SE    | -             | 27.4  | 1.0                  | 0.6   | 26.0                  | 27.0   |
| 20      | 24.0                 | 24.0  | 26.0                 | 27.0   | 25.0                | 25.0  | 24.5              | 24.0  | 96.0                  | 92.0   | -                         | -     | 2.7                     | 3.1   | SE                      | SE    | 165.4         | 2.0   | 0.4                  | 0.4   | 24.0                  | 25.0   |
| 21      | 24.0                 | 25.0  | 26.0                 | 31.0   | 26.0                | 26.0  | 25.5              | 25.0  | 96.0                  | 92.0   | -                         | 2.0   | 2.6                     | 2.3   | NE                      | NE    | 40.0          | -     | 0.6                  | 0.8   | 24.5                  | 29.5   |
| 22      | 25.0                 | 26.0  | 27.0                 | 32.0   | 27.0                | 29.0  | 26.0              | 27.0  | 93.0                  | 85.0   | -                         | -     | 0.2                     | 2.8   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 26.0                  | 32.0   |
| 23      | 24.0                 | 26.0  | 29.0                 | 33.0   | 27.0                | 31.0  | 25.5              | 28.0  | 88.0                  | 78.5   | -                         | -     | 0.5                     | 2.7   | NE                      | NE    | -             | -     | 1.0                  | 1.6   | 26.0                  | 35.0   |
| 24      | 25.0                 | 28.0  | 33.0                 | 34.0   | 28.0                | 32.0  | 26.5              | 29.0  | 88.0                  | 79.0   | -                         | -     | 0.2                     | 1.2   | SE                      | SW    | -             | -     | 2.0                  | 1.2   | 27.5                  | 33.5   |
| 25      | 25.0                 | 27.0  | 33.0                 | 35.0   | 28.0                | 32.0  | 26.5              | 29.0  | 88.0                  | 79.0   | -                         | -     | 0.4                     | 1.8   | NE                      | NE    | -             | -     | 1.4                  | 1.6   | 27.5                  | 36.0   |
| 26      | 25.0                 | 28.0  | 34.0                 | 35.0   | 28.0                | 32.0  | 26.0              | 29.0  | 85.0                  | 79.0   | -                         | -     | 0.4                     | 0.6   | NE                      | NE    | -             | -     | 1.6                  | 1.2   | 27.5                  | 36.0   |
| 27      | 26.0                 | 29.0  | 34.0                 | 35.5   | 29.0                | 30.0  | 28.0              | 28.0  | 92.0                  | 85.0   | -                         | 4.0   | 0.1                     | 0.8   | NE                      | NE    | -             | 15.2  | 1.2                  | 1.8   | 28.5                  | 37.0   |
| 28      | 26.0                 | 25.0  | 35.0                 | 34.0   | 29.0                | 26.0  | 27.0              | 25.5  | 85.0                  | 96.0   | -                         | 2.0   | 0.1                     | 2.0   | NE                      | NW    | -             | 10.2  | 1.6                  | 1.6   | 28.0                  | 32.0   |
| 29      | 25.0                 | 24.0  | 28.0                 | 33.0   | 28.0                | 26.0  | 26.0              | 25.5  | 85.0                  | 96.0   | -                         | 2.0   | 0.3                     | 2.6   | SE                      | SE    | -             | -     | 1.2                  | 1.8   | 28.0                  | 31.5   |
| 30      | 24.0                 |       | 27.0                 |        | 27.0                |       | 25.5              |       | 81.0                  |        | -                         |       | 0.2                     |       | SE                      |       | 1.4           |       | 1.8                  |       | 26.5                  |        |
| Total   | 740.5                | 815.0 | 903.0                | 1007.0 | 845.5               | 887.5 | 799.0             | 811.5 | 2638.5                | 2460.5 | 6.0                       | 22.0  | 24.5                    | 71.4  |                         |       | 245.0         | 121.8 | 41.4                 | 47.4  | 821.5                 | 1008.5 |
| Average | 24.7                 | 27.2  | 30.1                 | 33.6   | 28.2                | 29.6  | 26.6              | 27.1  | 88.0                  | 82.0   | 0.2                       | 0.7   | 0.8                     | 2.4   |                         |       |               |       |                      |       | 27.4                  | 33.6   |
|         | 25.9                 |       | 31.8                 |        | 28.9                |       | 26.8              |       | 85.0                  |        | 0.5                       |       | 1.6                     |       |                         |       | 366.8         |       | 88.8                 |       | 30.5                  |        |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 26.0  |                      | 33.0   |                     | 27.0  |                   | 25.0  |                       | 84.0   |                           | -     |                         | 0.9   |                         | SW    |               | -     |                      | -     |                       | 32.5   |
| 1       | 25.0                 | 27.0  | 27.0                 | 32.0   | 27.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | -                         | -     | 0.2                     | 0.6   | SW                      | SW    | 0.8           | -     | 1.2                  | 1.6   | 27.0                  | 35.0   |
| 2       | 24.0                 | 25.0  | 32.0                 | 31.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 1.0                     | 1.8   | SE                      | SE    | 32.2          | -     | 1.4                  | 1.0   | 25.5                  | 31.5   |
| 3       | 24.5                 | 24.0  | 29.0                 | 33.0   | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.2                     | 0.5   | SE                      | SE    | -             | -     | 1.6                  | 1.2   | 26.0                  | 33.0   |
| 4       | 25.0                 | 26.0  | 31.0                 | 33.0   | 26.0                | 29.0  | 25.5              | 27.0  | 96.0                  | 85.0   | -                         | -     | 0.2                     | 1.4   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 25.5                  | 33.0   |
| 5       | 25.0                 | 27.0  | 30.0                 | 33.0   | 28.0                | 28.0  | 27.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 1.8   | SW                      | NE    | -             | 18.4  | 0.4                  | 1.0   | 27.0                  | 34.0   |
| 6       | 24.0                 | 26.0  | 28.0                 | 34.0   | 28.0                | 26.0  | 26.0              | 25.5  | 85.0                  | 96.0   | -                         | -     | 0.1                     | 1.3   | NE                      | SW    | -             | -     | 1.0                  | 1.4   | 27.0                  | 31.5   |
| 7       | 24.0                 | 27.0  | 27.0                 | 31.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 1.9   | SW                      | SW    | 2.2           | 60.0  | 1.2                  | 1.4   | 24.5                  | 34.0   |
| 8       | 25.0                 | 23.0  | 29.0                 | 27.0   | 25.0                | 26.0  | 24.5              | 25.0  | 96.0                  | 92.0   | -                         | -     | 0.2                     | 1.0   | SW                      | SW    | -             | -     | 1.4                  | 0.8   | 24.5                  | 27.0   |
| 9       | 25.0                 | 25.0  | 26.0                 | 32.0   | 26.0                | 30.0  | 25.5              | 29.0  | 96.0                  | 93.0   | -                         | -     | 0.1                     | 0.6   | SW                      | SW    | -             | -     | 0.8                  | 0.8   | 26.0                  | 32.5   |
| 10      | 25.0                 | 27.0  | 31.0                 | 34.0   | 27.0                | 30.0  | 26.0              | 29.0  | 92.0                  | 93.0   | 2.0                       | -     | 0.1                     | 0.1   | SW                      | SW    | -             | -     | 1.0                  | 0.8   | 27.5                  | 34.5   |
| 11      | 25.0                 | 27.0  | 31.0                 | 34.0   | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 93.0   | 2.0                       | -     | 1.1                     | 1.3   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 35.0   |
| 12      | 25.0                 | 27.0  | 32.0                 | 33.0   | 27.0                | 30.0  | 26.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.2                     | 1.4   | SE                      | SE    | -             | -     | 1.8                  | 1.0   | 27.0                  | 34.0   |
| 13      | 26.0                 | 28.0  | 32.0                 | 34.0   | 29.0                | 31.0  | 27.0              | 29.0  | 85.0                  | 93.0   | 2.0                       | -     | 0.3                     | 1.6   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 35.5   |
| 14      | 26.0                 | 27.0  | 32.0                 | 33.0   | 29.0                | 30.0  | 27.5              | 28.0  | 89.0                  | 85.0   | -                         | -     | 0.1                     | 0.5   | SE                      | SE    | -             | -     | 0.8                  | 2.0   | 28.0                  | 34.0   |
| 15      | 25.0                 | 27.0  | 33.0                 | 35.0   | 28.0                | 31.0  | 27.0              | 28.5  | 92.0                  | 82.5   | -                         | -     | 0.3                     | 0.9   | SE                      | SE    | -             | -     | 1.2                  | 1.4   | 27.0                  | 35.0   |
| 16      | 24.0                 | 25.0  | 32.0                 | 35.0   | 25.0                | 31.0  | 24.5              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.3                     | 2.4   | SE                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 34.0   |
| 17      | 22.0                 | 24.0  | 33.0                 | 34.0   | 25.0                | 30.0  | 24.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.3                     | 1.1   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 25.0                  | 33.5   |
| 18      | 20.0                 | 24.0  | 34.0                 | 33.0   | 24.0                | 29.0  | 22.0              | 28.0  | 83.0                  | 92.0   | -                         | -     | 0.2                     | 0.5   | SW                      | SE    | -             | -     | 0.8                  | 2.0   | 23.5                  | 32.0   |
| 19      | 24.0                 | 25.0  | 31.0                 | 33.0   | 27.0                | 30.0  | 25.5              | 29.0  | 88.0                  | 93.0   | -                         | -     | 0.1                     | 1.6   | NE                      | SE    | -             | -     | 0.8                  | 1.6   | 24.5                  | 32.5   |
| 20      | 25.0                 | 26.0  | 33.0                 | 34.0   | 27.0                | 30.0  | 25.5              | 27.0  | 88.0                  | 78.0   | 4.0                       | 2.0   | 0.4                     | 3.5   | SE                      | SE    | -             | -     | 1.2                  | 2.0   | 26.5                  | 32.5   |
| 21      | 23.0                 | 26.0  | 31.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 27.5  | 84.0                  | 82.0   | -                         | -     | 1.9                     | 2.8   | SE                      | SE    | -             | -     | 1.2                  | 2.0   | 25.5                  | 34.5   |
| 22      | 24.0                 | 26.0  | 31.0                 | 33.0   | 27.0                | 29.0  | 26.0              | 21.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.1                     | 2.4   | SW                      | SE    | -             | -     | 1.6                  | 1.0   | 26.5                  | 32.0   |
| 23      | 25.0                 | 28.0  | 32.0                 | 34.0   | 27.0                | 30.0  | 25.5              | 28.0  | 88.0                  | 85.0   | -                         | -     | 0.4                     | 1.2   | SE                      | SE    | -             | -     | 1.8                  | 2.0   | 26.0                  | 34.0   |
| 24      | 24.0                 | 25.0  | 32.0                 | 35.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 88.0   | -                         | -     | 0.1                     | 0.5   | SE                      | SE    | -             | -     | 1.4                  | 2.0   | 26.0                  | 34.5   |
| 25      | 21.0                 | 25.0  | 32.0                 | 34.0   | 25.0                | 29.0  | 24.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.3                     | 0.3   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 25.0                  | 33.0   |
| 26      | 21.0                 | 24.0  | 30.0                 | 33.0   | 25.0                | 29.0  | 23.0              | 26.5  | 84.0                  | 81.0   | -                         | -     | 0.2                     | 0.6   | SE                      | SE    | -             | -     | 1.4                  | 2.0   | 23.5                  | 32.0   |
| 27      | 21.0                 | 24.0  | 30.0                 | 33.0   | 23.0                | 29.0  | 22.5              | 26.5  | 96.0                  | 81.0   | -                         | -     | 0.1                     | 0.7   | SE                      | SE    | -             | -     | 1.2                  | 1.0   | 24.0                  | 31.5   |
| 28      | 21.0                 | 24.0  | 31.0                 | 33.0   | 24.0                | 26.0  | 23.0              | 25.0  | 91.0                  | 77.0   | -                         | -     | -                       | 0.4   | SE                      | SE    | -             | -     | 0.6                  | 1.0   | 24.0                  | 31.5   |
| 29      | 20.0                 | 23.0  | 30.0                 | 32.0   | 24.0                | 27.0  | 22.0              | 24.0  | 83.0                  | 77.0   | -                         | -     | 0.2                     | 1.0   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 22.5                  | 31.5   |
| 30      | 18.0                 | 21.0  | 28.0                 | 31.0   | 22.0                | 27.0  | 21.0              | 24.5  | 91.0                  | 81.0   | -                         | -     | 0.1                     | 1.2   | NW                      | SE    | -             | -     | 18.0                 | 0.8   | 21.5                  | 30.0   |
| 31      | 19.0                 |       | 29.0                 |        | 23.0                |       | 21.0              |       | 83.0                  |        | -                         |       | 0.0                     |       | SE                      |       | -             |       | 1.4                  |       | 21.5                  |        |
| Total   | 725.5                | 789.0 | 949.0                | 1023.0 | 811.0               | 900.0 | 771.5             | 836.0 | 2786.0                | 2684.5 | 12.0                      | 2.0   | 8.6                     | 37.9  |                         |       | 35.2          | 78.4  | 55.2                 | 42.8  | 789.0                 | 1021.0 |
| Average | 23.4                 | 25.5  | 30.6                 | 33.0   | 26.2                | 29.0  | 24.9              | 27.0  | 89.9                  | 86.6   | 0.4                       | 0.1   | 0.3                     | 1.2   |                         |       |               |       |                      |       | 25.5                  | 32.9   |
|         | 24.4                 |       | 31.8                 |        | 27.6                |       | 25.9              |       | 88.2                  |        | 0.2                       |       | 0.8                     |       |                         |       | 113.6         |       | 98.0                 |       | 29.2                  |        |

## Twice Daily Climatic Data

Station Code : EM000R2  
Local River/Basin : Mahanadi

Station Name : Basantpur  
Sub-Division : MMSD I,CWC,Raipur  
- 0.0 .. N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPM     |                      | 22.0  |                      | 31.0  |                     | 27.0  |                   | 24.0  |                       | 77.0   |                           | -     |                         | 0.9   |                         | SE    |               | -     |                      | 1.0   |                       | ..      |
| 1       | 19.0                 | 22.0  | 28.0                 | 31.0  | 22.0                | 26.0  | 21.0              | 24.0  | 91.0                  | 84.0   | -                         | -     | -                       | 1.2   | SE                      | NW    | -             | -     | 1.2                  | 1.4   | 21.5                  | 30.0    |
| 2       | 19.0                 | 21.0  | 29.0                 | 31.0  | 22.0                | 27.0  | 21.0              | 23.5  | 91.0                  | 73.0   | -                         | -     | 0.0                     | 1.2   | NW                      | NW    | -             | -     | 1.0                  | 1.2   | 21.0                  | 30.0    |
| 3       | 18.0                 | 21.0  | 30.0                 | 30.0  | 22.0                | 26.0  | 20.0              | 23.0  | 82.0                  | 76.0   | -                         | -     | 0.1                     | 1.1   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 20.0                  | 29.5    |
| 4       | 17.5                 | 21.0  | 30.5                 | 30.5  | 22.0                | 27.0  | 20.0              | 23.5  | 82.0                  | 73.0   | -                         | -     | 0.0                     | 1.6   | NW                      | NE    | -             | -     | 0.8                  | 1.2   | 20.5                  | 30.0    |
| 5       | 17.0                 | 21.0  | 30.0                 | 31.0  | 22.0                | 26.0  | 20.0              | 24.0  | 82.0                  | 84.0   | -                         | -     | 0.0                     | 1.6   | NW                      | SE    | -             | -     | 1.4                  | 1.6   | 20.5                  | 30.5    |
| 6       | 19.0                 | 21.0  | 28.0                 | 32.0  | 22.0                | 28.0  | 21.0              | 25.0  | 91.0                  | 77.0   | -                         | -     | 0.0                     | 1.3   | SE                      | SE    | -             | -     | 1.6                  | 1.0   | 21.0                  | 31.0    |
| 7       | 17.5                 | 22.0  | 30.0                 | 33.0  | 22.0                | 27.0  | 20.5              | 23.5  | 87.0                  | 73.0   | -                         | -     | 0.0                     | 1.1   | SE                      | SE    | -             | -     | 1.0                  | 1.2   | 21.0                  | 31.0    |
| 8       | 18.0                 | 18.0  | 32.0                 | 33.0  | 23.0                | 26.0  | 21.0              | 23.0  | 83.0                  | 76.0   | -                         | -     | 0.1                     | 1.1   | SE                      | NW    | -             | -     | 1.2                  | 1.2   | 21.5                  | 30.0    |
| 9       | 17.0                 | 17.0  | 28.0                 | 31.0  | 22.0                | 27.0  | 21.0              | 22.0  | 91.0                  | 63.0   | -                         | -     | 0.1                     | 1.3   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 21.0                  | 29.0    |
| 10      | 15.0                 | 22.0  | 28.0                 | 30.0  | 21.0                | 25.0  | 20.0              | 21.0  | 95.0                  | 63.0   | -                         | -     | 0.2                     | 1.1   | SE                      | NW    | -             | -     | 0.8                  | 1.2   | 19.0                  | 26.5    |
| 11      | 15.0                 | 19.0  | 26.0                 | 30.0  | 19.0                | 23.0  | 18.5              | 20.0  | 95.0                  | 75.0   | -                         | -     | 0.1                     | 1.1   | SE                      | SW    | -             | -     | 1.4                  | 1.2   | 18.5                  | 25.0    |
| 12      | 14.0                 | 21.0  | 24.0                 | 30.0  | 20.0                | 24.0  | 17.0              | 21.0  | 73.0                  | 75.0   | -                         | -     | 0.1                     | 1.6   | NW                      | NW    | -             | -     | 1.4                  | 1.2   | 18.0                  | 26.5    |
| 13      | 15.5                 | 22.0  | 30.0                 | 29.0  | 19.0                | 24.0  | 17.5              | 22.0  | 86.0                  | 83.0   | -                         | -     | 0.0                     | 1.4   | NE                      | NW    | -             | -     | 1.0                  | 1.4   | 18.5                  | 26.0    |
| 14      | 17.0                 | 20.0  | 27.0                 | 30.0  | 21.0                | 26.0  | 19.0              | 23.0  | 82.0                  | 76.0   | -                         | -     | -                       | 1.8   | SE                      | SW    | -             | -     | 1.6                  | 1.2   | 19.5                  | 25.0    |
| 15      | 20.0                 | 21.0  | 27.0                 | 30.0  | 22.0                | 24.0  | 20.0              | 22.0  | 82.0                  | 83.0   | -                         | -     | 0.1                     | 1.9   | NW                      | SW    | -             | -     | 0.8                  | 0.8   | 20.0                  | 26.0    |
| 16      | 20.0                 | 23.0  | 26.0                 | 31.0  | 24.0                | 24.0  | 22.0              | 22.0  | 83.0                  | 83.0   | -                         | -     | 0.2                     | 1.7   | SW                      | W     | -             | -     | 0.8                  | 1.0   | 21.0                  | 26.0    |
| 17      | 20.5                 | 21.0  | 25.0                 | 31.0  | 23.0                | 27.0  | 22.5              | 25.0  | 96.0                  | 84.0   | -                         | -     | 0.2                     | 1.1   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 22.5                  | 26.0    |
| 18      | 20.0                 | 20.0  | 26.0                 | 29.0  | 23.5                | 27.0  | 23.0              | 25.0  | 96.0                  | 84.0   | -                         | -     | 0.6                     | 0.3   | SW                      | SW    | -             | -     | 1.4                  | 1.6   | 22.5                  | 26.0    |
| 19      | 20.0                 | 24.0  | 26.5                 | 33.0  | 23.5                | 29.0  | 22.5              | 25.0  | 82.0                  | 71.0   | -                         | -     | -                       | 1.2   | SW                      | NW    | -             | -     | 1.2                  | 1.0   | 22.5                  | 28.0    |
| 20      | 21.0                 | 23.0  | 30.0                 | 33.0  | 23.0                | 28.0  | 21.0              | 24.0  | 83.0                  | 70.0   | -                         | -     | -                       | 1.0   | NW                      | SW    | -             | -     | 1.2                  | 1.0   | 23.5                  | 28.0    |
| 21      | 17.5                 | 20.0  | 30.0                 | 31.0  | 20.0                | 27.0  | 19.0              | 23.0  | 91.0                  | 70.0   | -                         | -     | 0.1                     | 1.3   | SW                      | NW    | -             | -     | 1.2                  | 1.0   | 20.5                  | 26.0    |
| 22      | 17.0                 | 23.0  | 28.0                 | 30.0  | 21.0                | 29.0  | 19.0              | 24.0  | 82.0                  | 64.0   | -                         | -     | 0.0                     | 1.6   | SW                      | SW    | -             | -     | 1.2                  | 1.0   | 20.0                  | 26.0    |
| 23      | 14.0                 | 19.0  | 26.0                 | 30.0  | 20.0                | 26.0  | 18.0              | 21.0  | 81.0                  | 62.0   | -                         | -     | 0.1                     | 2.0   | SW                      | NW    | -             | -     | 1.0                  | 1.0   | 18.5                  | 26.0    |
| 24      | 16.0                 | 18.0  | 27.0                 | 30.0  | 20.0                | 24.0  | 18.0              | 20.0  | 81.0                  | 68.0   | -                         | -     | 0.1                     | 2.5   | SW                      | SW    | -             | -     | 1.0                  | 1.6   | 20.0                  | 24.0    |
| 25      | 12.0                 | 15.0  | 22.0                 | 30.0  | 15.0                | 25.0  | 14.0              | 21.0  | 89.0                  | 68.0   | -                         | -     | 1.6                     | 1.0   | SW                      | SW    | -             | -     | 1.0                  | 1.2   | 15.0                  | 25.0    |
| 26      | 12.0                 | 18.0  | 27.0                 | 30.0  | 18.0                | 25.0  | 16.0              | 22.0  | 80.0                  | 76.0   | -                         | -     | 0.0                     | 2.0   | SW                      | SW    | -             | -     | 0.8                  | 1.2   | 16.0                  | 25.0    |
| 27      | 12.0                 | 20.0  | 23.0                 | 30.0  | 18.0                | 24.0  | 15.0              | 20.0  | 68.0                  | 68.0   | -                         | -     | 0.0                     | 1.4   | SW                      | SW    | -             | -     | 0.6                  | 1.2   | 16.0                  | 25.0    |
| 28      | 12.0                 | 20.0  | 26.0                 | 31.0  | 15.0                | 25.0  | 14.5              | 20.0  | 94.0                  | 61.0   | -                         | -     | 0.0                     | 2.2   | NW                      | SW    | -             | -     | 0.8                  | 1.2   | 15.0                  | 25.0    |
| 29      | 13.0                 | 20.0  | 30.0                 | 30.0  | 16.0                | 24.0  | 15.0              | 20.0  | 89.0                  | 68.0   | -                         | -     | 0.0                     | 1.8   | SW                      | NW    | -             | -     | 0.8                  | 1.0   | 15.0                  | 24.0    |
| 30      | 13.0                 |       | 25.0                 |       | 17.0                |       | 16.0              |       | 90.0                  |        | -                         |       | 0.0                     |       | SW                      |       | -             |       | 1.0                  |       | 16.0                  |         |
| Total   | 498.5                | 615.0 | 825.0                | 921.5 | 618.0               | 777.0 | 573.0             | 676.5 | 2578.0                | 2208.0 | -                         | -     | 3.6                     | 42.4  |                         |       | -             | -     | 33.0                 | 34.8  | 585.5                 | 786.0 * |
| Average | 16.6                 | 20.5  | 27.5                 | 30.7  | 20.6                | 25.9  | 19.1              | 22.6  | 85.9                  | 73.6   | -                         | -     | 0.1                     | 1.4   |                         |       |               |       |                      |       | 19.5                  | 27.1 *  |
|         | 18.6                 |       | 29.1                 |       | 23.3                |       | 20.8              |       | 79.8                  |        | 0.0                       |       | 0.8                     |       |                         |       | 0.0           |       | 67.8                 |       | 23.3 *                |         |

## Twice Daily Climatic Data

Station Code : EM000R2  
Local River/Basin : Mahanadi

Station Name : Basantpur  
Sub-Division : MMSD I,CWC,Raipur  
- 0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 16.0  |                      | 30.0  |                     | 25.0  |                   | 19.5  |                       | 58.0   |                           | -     |                         | 1.5   |                         | SW    |               | -     |                      | 0.8   |                       | 25.0  |
| 1       | 12.5                 | 16.0  | 26.0                 | 28.0  | 16.0                | 23.0  | 15.0              | 18.0  | 89.0                  | 59.0   | -                         | -     | 0.0                     | 1.3   | SW                      | SW    | -             | -     | 0.8                  | 1.4   | 16.0                  | 24.0  |
| 2       | 11.0                 | 14.0  | 25.0                 | 28.0  | 15.0                | 23.0  | 14.0              | 20.0  | 89.0                  | 75.0   | -                         | -     | 0.0                     | 1.4   | SW                      | SW    | -             | -     | 0.8                  | 0.6   | 15.0                  | 24.0  |
| 3       | 11.0                 | 14.0  | 25.0                 | 28.0  | 15.0                | 24.0  | 14.0              | 21.0  | 89.0                  | 75.0   | -                         | -     | -                       | 1.1   | SW                      | NW    | -             | -     | 0.8                  | 0.6   | 14.0                  | 24.0  |
| 4       | 11.0                 | 14.0  | 23.0                 | 23.0  | 15.0                | 23.0  | 14.0              | 20.0  | 89.0                  | 75.0   | -                         | -     | 0.0                     | 1.6   | NW                      | NW    | -             | -     | 0.8                  | 1.0   | 15.0                  | 24.0  |
| 5       | 11.0                 | 12.0  | 20.0                 | 22.0  | 15.0                | 24.0  | 15.0              | 21.0  | 89.0                  | 75.0   | -                         | -     | 0.0                     | 1.1   | SW                      | NW    | -             | -     | 0.8                  | 0.6   | 15.0                  | 24.0  |
| 6       | 12.0                 | 13.0  | 21.0                 | 23.0  | 15.0                | 24.0  | 14.0              | 20.0  | 89.0                  | 68.0   | -                         | -     | -                       | 1.2   | NW                      | NW    | -             | -     | 0.6                  | 0.8   | 15.0                  | 24.0  |
| 7       | 12.0                 | 15.0  | 21.0                 | 29.0  | 16.0                | 25.0  | 15.0              | 21.0  | 89.0                  | 68.0   | -                         | -     | -                       | 1.3   | NW                      | SE    | -             | -     | 0.6                  | 0.8   | 17.0                  | 25.0  |
| 8       | 15.0                 | 17.0  | 26.0                 | 30.0  | 17.0                | 26.0  | 16.0              | 22.0  | 90.0                  | 69.0   | -                         | -     | 0.0                     | 1.3   | SW                      | NW    | -             | -     | 0.8                  | 0.8   | 16.0                  | 26.0  |
| 9       | 15.0                 | 17.0  | 25.0                 | 28.0  | 17.0                | 25.0  | 16.0              | 20.0  | 90.0                  | 61.0   | -                         | -     | 0.2                     | 1.8   | SW                      | SW    | -             | -     | 0.6                  | 0.6   | 18.0                  | 26.0  |
| 10      | 14.0                 | 18.0  | 26.0                 | 29.0  | 19.0                | 24.0  | 15.0              | 21.0  | 63.0                  | 75.0   | -                         | -     | 0.3                     | 2.5   | SW                      | NW    | -             | -     | 0.8                  | 0.8   | 17.0                  | 24.0  |
| 11      | 14.0                 | 15.0  | 21.0                 | 29.0  | 16.0                | 25.0  | 15.0              | 21.0  | 89.0                  | 68.0   | -                         | -     | 0.1                     | 1.4   | NW                      | SW    | -             | -     | 0.8                  | 0.8   | 16.0                  | 24.0  |
| 12      | 13.0                 | 15.0  | 22.0                 | 28.0  | 17.0                | 25.0  | 16.0              | 20.0  | 90.0                  | 61.0   | -                         | -     | 0.1                     | 1.6   | NW                      | NW    | -             | -     | 0.6                  | 0.8   | 16.0                  | 24.0  |
| 13      | 13.0                 | 15.5  | 22.0                 | 28.0  | 17.0                | 24.0  | 16.0              | 20.0  | 90.0                  | 68.0   | -                         | -     | 0.2                     | 0.8   | SW                      | SW    | -             | -     | 0.8                  | 0.8   | 16.0                  | 25.0  |
| 14      | 14.0                 | 15.0  | 25.0                 | 29.0  | 19.0                | 25.0  | 17.5              | 21.0  | 86.0                  | 68.0   | -                         | -     | 0.5                     | 0.2   | NE                      | SW    | -             | -     | 1.0                  | 1.2   | 18.0                  | 25.0  |
| 15      | 15.0                 | 15.0  | 25.0                 | 29.0  | 20.0                | 25.0  | 18.0              | 20.0  | 81.0                  | 61.0   | -                         | -     | 0.1                     | 0.9   | NE                      | SW    | -             | -     | 0.8                  | 1.2   | 17.5                  | 26.0  |
| 16      | 15.0                 | 15.0  | 26.0                 | 29.0  | 19.0                | 25.0  | 17.5              | 20.0  | 86.0                  | 61.0   | -                         | -     | 0.1                     | 1.7   | NW                      | SW    | -             | -     | 1.0                  | 1.0   | 18.0                  | 26.0  |
| 17      | 14.0                 | 15.5  | 25.0                 | 29.0  | 19.0                | 25.0  | 18.0              | 19.5  | 90.0                  | 58.0   | -                         | -     | 0.3                     | 0.7   | SE                      | NW    | -             | -     | 1.0                  | 1.2   | 17.5                  | 25.5  |
| 18      | 13.0                 | 15.0  | 25.0                 | 28.0  | 18.0                | 25.0  | 16.0              | 19.0  | 80.0                  | 60.0   | -                         | -     | 0.3                     | 0.2   | SE                      | SW    | -             | -     | 1.0                  | 1.6   | 16.0                  | 25.0  |
| 19      | 10.0                 | 15.0  | 23.0                 | 28.0  | 16.0                | 25.0  | 13.0              | 20.0  | 69.0                  | 61.0   | -                         | -     | 1.2                     | 1.2   | NW                      | NW    | -             | -     | 1.2                  | 1.8   | 13.0                  | 25.0  |
| 20      | 10.0                 | 14.5  | 21.0                 | 28.0  | 15.0                | 24.0  | 13.0              | 22.0  | 78.0                  | 83.0   | -                         | -     | -                       | 0.9   | NW                      | NW    | -             | -     | 0.8                  | 1.2   | 13.5                  | 23.5  |
| 21      | 10.5                 | 16.0  | 26.0                 | 28.0  | 16.0                | 24.0  | 14.5              | 21.0  | 84.0                  | 75.0   | -                         | -     | -                       | 1.2   | NW                      | NW    | -             | -     | 0.6                  | 1.0   | 14.5                  | 24.0  |
| 22      | 12.0                 | 15.0  | 25.0                 | 27.0  | 16.0                | 24.0  | 14.5              | 21.0  | 84.0                  | 75.0   | -                         | -     | 0.0                     | 1.1   | NW                      | SW    | -             | -     | 0.8                  | 0.8   | 15.0                  | 23.5  |
| 23      | 11.5                 | 15.0  | 24.0                 | 29.0  | 15.0                | 24.0  | 13.0              | 20.5  | 78.0                  | 71.0   | -                         | -     | 0.2                     | 1.0   | NW                      | SW    | -             | -     | 0.8                  | 0.6   | 14.5                  | 24.0  |
| 24      | 9.5                  | 14.0  | 27.0                 | 27.0  | 15.0                | 24.0  | 13.5              | 20.0  | 84.0                  | 68.0   | -                         | -     | -                       | 0.2   | SW                      | NW    | -             | -     | 0.6                  | 0.8   | 17.0                  | 23.0  |
| 25      | 11.0                 | 13.0  | 28.5                 | 28.0  | 17.0                | 24.0  | 15.0              | 21.0  | 80.0                  | 75.0   | -                         | -     | 0.6                     | 1.7   | SW                      | SW    | -             | -     | 1.2                  | 0.8   | 14.5                  | 24.0  |
| 26      | 11.0                 | 13.0  | 27.0                 | 27.0  | 15.0                | 23.0  | 12.0              | 20.0  | 68.0                  | 75.0   | -                         | -     | 0.2                     | 1.0   | NW                      | SW    | -             | -     | 1.2                  | 1.0   | 14.0                  | 24.0  |
| 27      | 11.0                 | 12.0  | 26.0                 | 26.0  | 14.0                | 23.0  | 12.0              | 19.0  | 78.0                  | 67.0   | -                         | -     | 0.7                     | 1.7   | NW                      | NW    | -             | -     | 1.0                  | 0.8   | 13.0                  | 23.0  |
| 28      | 12.0                 | 13.0  | 28.0                 | 28.0  | 14.0                | 21.0  | 12.5              | 16.0  | 83.0                  | 57.0   | -                         | -     | 0.1                     | 1.2   | E                       | W     | -             | -     | 0.6                  | 0.6   | 13.0                  | 22.0  |
| 29      | 9.5                  | 12.0  | 22.0                 | 27.0  | 17.0                | 21.0  | 14.0              | 17.0  | 70.0                  | 65.0   | -                         | -     | -                       | -     | SE                      | SE    | -             | -     | 0.4                  | 0.6   | 14.0                  | 22.5  |
| 30      | 10.0                 | 12.5  | 28.0                 | 27.0  | 16.0                | 20.0  | 14.0              | 17.5  | 79.0                  | 77.0   | -                         | -     | 0.9                     | 0.7   | SE                      | SE    | -             | -     | 0.6                  | 1.0   | 13.5                  | 23.0  |
| 31      | 10.0                 |       | 26.0                 |       | 15.0                |       | 13.5              |       | 84.0                  |        | -                         |       | 0.1                     |       | W                       |       | -             |       | 0.4                  |       | 14.0                  |       |
| Total   | 373.5                | 452.0 | 760.5                | 857.0 | 506.0               | 742.0 | 456.5             | 619.0 | 2577.0                | 2112.0 | -                         | -     | 6.3                     | 35.5  |                         |       | -             | -     | 24.6                 | 28.4  | 476.5                 | 752.0 |
| Average | 12.0                 | 14.6  | 24.5                 | 27.6  | 16.3                | 23.9  | 14.7              | 20.0  | 83.1                  | 68.1   | -                         | -     | 0.2                     | 1.1   |                         |       |               |       |                      |       | 15.4                  | 24.3  |
|         | 13.3                 |       | 26.1                 |       | 20.1                |       | 17.3              |       | 75.6                  |        | 0.0                       |       | 0.7                     |       |                         |       | 0.0           |       | 53.0                 |       | 19.8                  |       |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPOPM   |                      | 12.0  |                      | 26.0  |                     | 21.0  |                   | 17.0  |                       | 65.0   |                           | -     |                         | 0.2   |                         | E     |               | ..    |                      | 0.6   |                       | ..      |
| 1       | 10.5                 | 12.5  | 28.0                 | 27.0  | 16.0                | 20.0  | 14.0              | 17.5  | 79.0                  | 77.0   | -                         | -     | 0.4                     | 0.3   | NW                      | SW    | -             | -     | 0.6                  | 0.6   | 14.0                  | 23.0    |
| 2       | 11.0                 | 12.0  | 28.0                 | 28.0  | 15.0                | 21.0  | 13.5              | 18.0  | 84.0                  | 73.0   | -                         | -     | 0.3                     | 0.3   | SW                      | NE    | -             | -     | 0.6                  | 0.8   | 14.5                  | 24.0    |
| 3       | 11.0                 | 14.0  | 27.5                 | 26.5  | 15.0                | 22.0  | 13.0              | 17.0  | 78.0                  | 58.0   | -                         | -     | 0.7                     | 2.5   | NE                      | SE    | -             | -     | 0.4                  | 1.2   | 14.0                  | 22.5    |
| 4       | 9.0                  | 12.0  | 24.5                 | 26.0  | 12.0                | 21.0  | 11.0              | 17.0  | 88.0                  | 65.0   | -                         | -     | 0.1                     | 0.5   | SE                      | SE    | -             | -     | 0.8                  | 1.0   | 12.0                  | 21.5    |
| 5       | 8.0                  | 12.5  | 24.0                 | 26.0  | 11.0                | 20.0  | 10.0              | 17.5  | 87.0                  | 77.0   | -                         | -     | 0.8                     | 0.2   | SE                      | NE    | -             | -     | 1.0                  | 1.0   | 11.5                  | 21.0    |
| 6       | 9.0                  | 16.0  | 26.0                 | 26.5  | 16.0                | 23.0  | 12.0              | 18.0  | 59.0                  | 59.0   | -                         | -     | 1.4                     | 1.7   | SE                      | SE    | -             | -     | 1.0                  | 0.8   | 13.0                  | 21.5    |
| 7       | 8.0                  | 14.0  | 25.0                 | 26.0  | 13.0                | 20.0  | 11.5              | 17.5  | 83.0                  | 77.0   | -                         | -     | -                       | 0.2   | SE                      | SW    | -             | -     | 1.0                  | 0.8   | 12.5                  | 21.0    |
| 8       | 8.5                  | 13.5  | 26.0                 | 26.5  | 14.0                | 20.0  | 12.0              | 17.0  | 78.0                  | 73.0   | -                         | -     | 0.8                     | 0.3   | SE                      | SW    | -             | -     | 0.8                  | 1.0   | 12.5                  | 21.5    |
| 9       | 8.0                  | 12.0  | 26.5                 | 25.0  | 13.0                | 20.0  | 11.0              | 17.0  | 77.0                  | 73.0   | -                         | -     | 0.9                     | 0.9   | SE                      | SW    | -             | -     | 1.0                  | 0.8   | 12.5                  | 21.0    |
| 10      | 8.0                  | 12.0  | 26.0                 | 24.0  | 14.0                | 19.0  | 11.0              | 16.0  | 67.0                  | 72.0   | -                         | -     | 0.5                     | 0.1   | SE                      | SE    | -             | -     | 1.2                  | 0.8   | 12.0                  | 20.5    |
| 11      | 9.5                  | 13.0  | 27.0                 | 25.0  | 14.0                | 20.0  | 12.0              | 17.0  | 78.0                  | 73.0   | -                         | -     | 1.7                     | 0.8   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 13.0                  | 21.0    |
| 12      | 10.0                 | 13.5  | 28.0                 | 26.0  | 15.0                | 21.0  | 12.0              | 17.5  | 68.0                  | 69.0   | -                         | -     | 1.3                     | 0.8   | NE                      | SE    | -             | -     | 1.0                  | 1.2   | 13.5                  | 21.5    |
| 13      | 11.0                 | 15.0  | 29.0                 | 27.0  | 16.0                | 22.0  | 13.0              | 18.0  | 69.0                  | 66.0   | -                         | -     | 0.9                     | 2.1   | SW                      | SE    | -             | -     | 0.8                  | 2.0   | 14.5                  | 23.0    |
| 14      | 13.0                 | 16.0  | 28.0                 | 29.0  | 20.0                | 26.0  | 13.0              | 19.0  | 40.0                  | 49.0   | -                         | -     | 0.1                     | 1.7   | NE                      | SE    | -             | -     | 0.6                  | 1.4   | 15.0                  | 24.0    |
| 15      | 12.0                 | 13.0  | 28.0                 | 29.0  | 18.0                | 25.0  | 14.0              | 20.0  | 62.0                  | 61.0   | -                         | -     | 0.3                     | 2.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 14.5                  | 24.5    |
| 16      | 9.5                  | 12.0  | 27.0                 | 28.5  | 15.0                | 25.0  | 13.0              | 19.0  | 78.0                  | 54.0   | -                         | -     | 0.1                     | 2.7   | SW                      | SW    | -             | -     | 1.0                  | 0.8   | 13.5                  | 24.0    |
| 17      | 9.0                  | 12.5  | 27.0                 | 29.0  | 13.0                | 26.0  | 11.0              | 20.0  | 77.0                  | 55.0   | -                         | -     | -                       | 1.4   | NW                      | SE    | -             | -     | 1.2                  | 1.2   | 12.5                  | 24.0    |
| 18      | 10.0                 | 13.0  | 29.0                 | 28.0  | 14.0                | 25.0  | 12.5              | 16.0  | 83.0                  | 35.0   | -                         | -     | 0.4                     | 1.8   | SW                      | SW    | -             | -     | 0.8                  | 1.8   | 13.5                  | 24.0    |
| 19      | 10.0                 | 15.0  | 26.0                 | 28.0  | 15.0                | 22.0  | 12.0              | 18.0  | 68.0                  | 66.0   | -                         | -     | 0.1                     | 2.1   | SW                      | SW    | -             | -     | 1.2                  | 1.4   | 13.0                  | 24.0    |
| 20      | 10.0                 | 15.0  | 24.0                 | 27.0  | 15.0                | 24.0  | 13.0              | 18.0  | 78.0                  | 53.0   | -                         | -     | 0.0                     | 1.9   | SW                      | SW    | -             | -     | 0.8                  | 0.8   | 13.5                  | 24.0    |
| 21      | 11.0                 | 14.0  | 26.0                 | 28.0  | 15.0                | 25.0  | 13.0              | 18.0  | 78.0                  | 47.0   | -                         | -     | 0.0                     | 1.5   | SW                      | NW    | -             | -     | 0.8                  | 0.8   | 14.0                  | 24.0    |
| 22      | 11.0                 | 13.0  | 25.0                 | 28.0  | 14.0                | 24.0  | 13.0              | 18.0  | 89.0                  | 53.0   | -                         | -     | -                       | 1.6   | SE                      | SW    | -             | -     | 0.8                  | 1.2   | 14.0                  | 23.0    |
| 23      | 12.0                 | 15.0  | 26.0                 | 27.0  | 15.0                | 22.0  | 13.0              | 18.0  | 78.0                  | 66.0   | -                         | -     | 0.0                     | 1.9   | SW                      | SE    | -             | -     | 0.8                  | 1.2   | 14.5                  | 23.0    |
| 24      | 13.0                 | 14.0  | 23.0                 | 28.0  | 16.0                | 26.0  | 14.0              | 20.0  | 79.0                  | 55.0   | -                         | -     | 0.1                     | 3.0   | SE                      | SE    | -             | -     | 0.8                  | 1.6   | 15.0                  | 24.0    |
| 25      | 12.0                 | 13.0  | 26.0                 | 27.0  | 14.0                | 22.0  | 12.0              | 18.0  | 78.0                  | 66.0   | -                         | -     | 0.3                     | 2.6   | NE                      | NE    | -             | -     | 1.2                  | 1.2   | 15.0                  | 23.0    |
| 26      | 10.0                 | 13.0  | 28.0                 | 27.5  | 14.0                | 24.0  | 12.0              | 21.0  | 78.0                  | 75.0   | -                         | -     | 0.3                     | 2.2   | SE                      | SE    | -             | -     | 1.4                  | 1.0   | 14.0                  | 24.5    |
| 27      | 9.0                  | 11.0  | 27.0                 | 27.0  | 12.0                | 23.0  | 10.0              | 18.0  | 76.0                  | 59.0   | -                         | -     | -                       | 2.4   | SE                      | SW    | -             | -     | 1.2                  | 1.2   | 13.5                  | 24.0    |
| 28      | 9.0                  | 12.0  | 26.0                 | 28.0  | 12.0                | 23.0  | 11.0              | 20.0  | 88.0                  | 75.0   | -                         | -     | -                       | 2.1   | SW                      | SE    | -             | -     | 1.2                  | 1.4   | 13.0                  | 24.0    |
| 29      | 10.0                 | 13.0  | 26.0                 | 29.0  | 13.0                | 24.0  | 12.0              | 17.0  | 88.0                  | 46.0   | -                         | -     | 0.1                     | 2.0   | NE                      | NW    | -             | -     | 0.6                  | 1.0   | 13.0                  | 25.0    |
| 30      | 11.0                 | 14.0  | 27.0                 | 30.0  | 15.0                | 26.0  | 13.0              | 19.0  | 78.0                  | 49.0   | -                         | -     | 0.1                     | 2.6   | NW                      | NW    | -             | -     | 1.6                  | 1.2   | 13.5                  | 26.0    |
| 31      | 12.0                 |       | 29.0                 |       | 15.0                |       | 12.0              |       | 68.0                  |        | -                         |       | 0.1                     |       | NW                      |       | -             |       | 1.4                  |       | 14.0                  |         |
| Total   | 315.0                | 412.5 | 823.5                | 843.5 | 449.0               | 702.0 | 379.5             | 559.0 | 2359.0                | 1941.0 | -                         | -     | 11.6                    | 47.0  |                         |       | -             | - *   | 29.6                 | 34.8  | 418.5                 | 692.0 * |
| Average | 10.2                 | 13.3  | 26.6                 | 27.2  | 14.5                | 22.6  | 12.2              | 18.0  | 76.1                  | 62.6   | -                         | -     | 0.4                     | 1.5   |                         |       |               |       |                      |       | 13.5                  | 23.1 *  |
|         | 11.7                 |       | 26.9                 |       | 18.6                |       | 15.1              |       | 69.4                  |        | 0.0                       |       | 0.9                     |       |                         |       | 0.0 *         |       | 64.4                 |       | 18.3 *                |         |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 15.0  |                      | 31.0  |                     | 28.0  |                   | 21.0  |                       | 51.0   |                           | -     |                         | 5.0   |                         | NW    |               | -     |                      | 1.6   |                       | 26.0  |
| 1       | 12.0                 | 13.0  | 30.0                 | 27.0  | 16.0                | 21.0  | 13.0              | 18.0  | 69.0                  | 73.0   | -                         | -     | 0.5                     | 3.6   | NW                      | SW    | -             | -     | 1.2                  | 1.0   | 15.0                  | 24.0  |
| 2       | 13.0                 | 14.0  | 28.0                 | 32.0  | 15.0                | 26.0  | 13.0              | 19.0  | 78.0                  | 49.0   | -                         | -     | 0.2                     | 2.8   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 15.0                  | 27.0  |
| 3       | 13.0                 | 20.0  | 28.0                 | 33.0  | 16.0                | 27.0  | 14.0              | 24.0  | 79.0                  | 77.0   | -                         | -     | 0.0                     | 1.4   | SE                      | SE    | -             | -     | 1.4                  | 1.0   | 16.0                  | 27.0  |
| 4       | 14.0                 | 18.0  | 30.0                 | 33.0  | 18.0                | 29.0  | 16.0              | 23.5  | 80.0                  | 61.0   | -                         | -     | -                       | 3.1   | SE                      | NW    | -             | -     | 1.2                  | 1.6   | 17.0                  | 28.0  |
| 5       | 15.0                 | 17.0  | 31.0                 | 33.0  | 18.0                | 26.0  | 16.0              | 22.0  | 80.0                  | 69.0   | -                         | -     | 0.0                     | 1.6   | SE                      | SW    | -             | -     | 1.4                  | 1.2   | 18.0                  | 28.0  |
| 6       | 16.0                 | 18.0  | 29.0                 | 33.0  | 19.0                | 28.0  | 17.0              | 26.0  | 81.0                  | 85.0   | -                         | -     | 0.1                     | 2.6   | SE                      | SE    | -             | -     | 1.4                  | 1.0   | 18.0                  | 28.0  |
| 7       | 18.0                 | 20.0  | 31.0                 | 27.0  | 20.0                | 24.0  | 18.0              | 21.0  | 81.0                  | 75.0   | -                         | -     | 0.1                     | 1.4   | SE                      | NW    | -             | -     | 1.4                  | 0.0   | 19.5                  | 23.0  |
| 8       | 16.0                 | 19.0  | 25.0                 | 31.0  | 19.0                | 28.0  | 17.0              | 22.0  | 81.0                  | 57.0   | -                         | -     | 0.4                     | 3.6   | SE                      | SW    | -             | -     | 1.0                  | 1.8   | 18.0                  | 28.5  |
| 9       | 20.0                 | 20.0  | 30.0                 | 26.0  | 19.0                | 24.0  | 17.0              | 21.0  | 81.0                  | 75.0   | -                         | -     | 0.0                     | 3.1   | SE                      | SW    | -             | -     | 1.4                  | 1.0   | 18.0                  | 28.0  |
| 10      | 18.0                 | 17.0  | 31.0                 | 31.0  | 18.0                | 26.0  | 15.0              | 21.0  | 71.0                  | 62.0   | -                         | -     | 0.0                     | 1.4   | SE                      | SE    | -             | -     | 1.4                  | 1.2   | 19.0                  | 26.0  |
| 11      | 16.0                 | 18.0  | 27.0                 | 31.0  | 18.0                | 26.0  | 15.0              | 22.0  | 71.0                  | 69.0   | -                         | -     | 0.0                     | 2.9   | SE                      | SW    | -             | -     | 1.4                  | 1.0   | 17.0                  | 27.0  |
| 12      | 16.0                 | 19.0  | 28.0                 | 27.0  | 19.0                | 25.0  | 18.0              | 20.0  | 90.0                  | 61.0   | -                         | -     | 1.3                     | 1.4   | SE                      | NW    | 13.2          | -     | 1.2                  | 1.6   | 18.0                  | 27.0  |
| 13      | 18.0                 | 19.0  | 25.0                 | 26.0  | 19.0                | 24.0  | 17.0              | 19.0  | 81.0                  | 60.0   | -                         | -     | 0.4                     | 1.2   | SE                      | SE    | -             | -     | 0.6                  | 0.4   | 19.0                  | 23.0  |
| 14      | 16.0                 | 19.0  | 24.0                 | 27.0  | 17.0                | 28.0  | 16.0              | 22.0  | 90.0                  | 57.0   | -                         | -     | 1.9                     | 3.4   | SE                      | SE    | 6.6           | -     | -                    | 1.0   | 17.0                  | 24.0  |
| 15      | 15.0                 | 21.0  | 25.0                 | 28.0  | 17.0                | 25.0  | 14.0              | 20.0  | 70.0                  | 61.0   | -                         | -     | 0.2                     | 3.6   | NW                      | NW    | -             | -     | 1.4                  | 1.0   | 16.5                  | 27.0  |
| 16      | 13.0                 | 16.0  | 28.0                 | 29.0  | 18.0                | 26.0  | 14.0              | 20.0  | 76.0                  | 55.0   | -                         | -     | 0.1                     | 2.5   | SE                      | SE    | -             | -     | 1.2                  | 1.6   | 16.0                  | 28.0  |
| 17      | 15.0                 | 19.0  | 29.0                 | 30.0  | 20.0                | 26.0  | 16.0              | 22.0  | 64.0                  | 69.0   | -                         | -     | 0.3                     | 3.2   | NW                      | NW    | -             | -     | 1.4                  | 1.8   | 18.0                  | 27.0  |
| 18      | 14.0                 | 17.0  | 28.0                 | 32.0  | 19.0                | 26.0  | 15.0              | 25.0  | 63.0                  | 92.0   | -                         | -     | 0.0                     | 1.9   | NW                      | NW    | -             | -     | 1.4                  | 1.8   | 18.0                  | 28.0  |
| 19      | 16.0                 | 18.0  | 29.0                 | 33.0  | 20.0                | 26.0  | 16.0              | 21.0  | 64.0                  | 62.0   | -                         | -     | 0.0                     | 2.0   | SW                      | SE    | -             | -     | 1.6                  | 1.8   | 18.0                  | 26.0  |
| 20      | 17.0                 | 22.0  | 25.0                 | 33.0  | 20.0                | 29.0  | 18.0              | 21.0  | 81.0                  | 46.0   | -                         | -     | -                       | 1.0   | SE                      | SW    | -             | -     | 1.6                  | 2.0   | 19.5                  | 28.0  |
| 21      | 18.0                 | 18.0  | 28.0                 | 33.0  | 21.0                | 29.0  | 19.0              | 19.0  | 82.0                  | 35.0   | -                         | -     | 0.1                     | 1.8   | SE                      | SW    | -             | -     | 1.8                  | 1.8   | 19.0                  | 32.0  |
| 22      | 15.0                 | 19.0  | 33.0                 | 34.0  | 20.0                | 29.0  | 16.0              | 19.0  | 64.0                  | 35.0   | -                         | -     | 0.1                     | 2.3   | SW                      | SE    | -             | -     | 1.2                  | 1.8   | 17.5                  | 32.0  |
| 23      | 16.0                 | 19.0  | 31.0                 | 35.0  | 19.0                | 30.0  | 16.0              | 24.0  | 72.0                  | 59.0   | -                         | -     | 0.2                     | 2.1   | SE                      | NE    | -             | -     | 2.0                  | 1.8   | 20.0                  | 32.0  |
| 24      | 17.0                 | 18.0  | 30.0                 | 33.0  | 22.0                | 30.0  | 18.0              | 24.0  | 66.0                  | 59.0   | -                         | -     | 0.1                     | 2.8   | NW                      | NW    | -             | -     | 1.7                  | 1.6   | 20.0                  | 30.0  |
| 25      | 18.0                 | 22.0  | 31.0                 | 31.0  | 23.0                | 30.0  | 19.0              | 24.0  | 67.0                  | 59.0   | 2.0                       | -     | 0.0                     | 3.0   | NW                      | NW    | -             | -     | 1.8                  | 1.8   | 21.0                  | 31.0  |
| 26      | 20.0                 | 23.0  | 32.0                 | 30.0  | 23.0                | 30.0  | 20.0              | 24.0  | 75.0                  | 59.0   | 1.0                       | -     | 0.4                     | 2.5   | SW                      | SE    | -             | -     | 2.0                  | 1.8   | 19.0                  | 30.0  |
| 27      | 16.0                 | 23.0  | 34.0                 | 33.0  | 22.0                | 30.0  | 16.0              | 26.0  | 50.0                  | 72.0   | -                         | -     | 0.3                     | 2.5   | SE                      | SE    | -             | -     | 1.6                  | 1.8   | 19.0                  | 30.0  |
| 28      | 16.0                 |       | 34.0                 |       | 20.0                |       | 18.0              |       | 81.0                  |        | -                         |       | -                       |       | NW                      |       | -             |       | 2.0                  |       | 19.0                  |       |
| Total   | 447.0                | 521.0 | 814.0                | 862.0 | 535.0               | 756.0 | 457.0             | 610.5 | 2088.0                | 1744.0 | 3.0                       | -     | 6.9                     | 69.7  |                         |       | 19.8          | -     | 38.9                 | 39.4  | 505.0                 | 775.5 |
| Average | 16.0                 | 18.6  | 29.1                 | 30.8  | 19.1                | 27.0  | 16.3              | 21.8  | 74.6                  | 62.3   | 0.1                       | -     | 0.2                     | 2.5   |                         |       |               |       |                      |       | 18.0                  | 27.7  |
|         | 17.3                 |       | 29.9                 |       | 23.1                |       | 19.1              |       | 68.4                  |        | 0.1                       |       | 1.4                     |       |                         |       | 19.8          |       | 78.3                 |       | 22.9                  |       |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       | - 0.0 |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |       |
| LPM     |                      | 20.0  |                      | 30.0   |                     | 29.0   |                   | 28.0  |                       | 92.0   |                           | -     |                         | 2.1   |                         | SE    |               | -     |                      | 1.8   |                       | 31.0  |       |
| 1       | 18.0                 | 22.0  | 34.0                 | 32.0   | 22.0                | 30.0   | 18.5              | 28.0  | 70.0                  | 85.0   | -                         | -     | 0.2                     | 0.3   | E                       | SE    | -             | -     | 1.8                  | 2.2   | 20.0                  | 31.0  |       |
| 2       | 18.0                 | 23.0  | 34.0                 | 32.0   | 23.0                | 32.0   | 19.0              | 30.0  | 67.0                  | 86.0   | -                         | 2.0   | 0.4                     | 1.6   | SE                      | SE    | -             | -     | 2.0                  | 2.8   | 20.0                  | 32.0  |       |
| 3       | 19.0                 | 24.0  | 33.0                 | 32.0   | 26.0                | 30.0   | 19.0              | 29.0  | 49.0                  | 93.0   | -                         | -     | 2.4                     | 0.3   | E                       | SE    | -             | -     | 2.0                  | 2.2   | 22.0                  | 32.0  |       |
| 4       | 19.0                 | 25.0  | 33.0                 | 33.0   | 25.0                | 32.0   | 20.0              | 27.0  | 61.0                  | 67.0   | -                         | -     | 2.4                     | 2.5   | SE                      | NE    | -             | -     | 1.6                  | 2.0   | 21.5                  | 32.0  |       |
| 5       | 21.0                 | 22.0  | 33.0                 | 34.0   | 24.0                | 30.0   | 20.0              | 28.0  | 68.0                  | 85.0   | -                         | 3.0   | 0.3                     | 3.4   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 28.0  |       |
| 6       | 20.0                 | 27.0  | 32.0                 | 34.0   | 22.0                | 30.0   | 19.0              | 28.0  | 74.0                  | 78.0   | -                         | -     | 0.1                     | 2.2   | SE                      | SW    | -             | -     | 1.8                  | 2.0   | 21.0                  | 30.0  |       |
| 7       | 19.0                 | 23.0  | 33.0                 | 35.0   | 22.0                | 32.0   | 18.5              | 24.0  | 70.0                  | 49.0   | -                         | -     | 0.0                     | 2.3   | SE                      | SE    | -             | -     | 1.8                  | 1.8   | 20.5                  | 31.5  |       |
| 8       | 17.5                 | 25.0  | 30.0                 | 35.0   | 23.0                | 33.0   | 18.0              | 25.0  | 59.0                  | 48.0   | -                         | -     | 0.1                     | 0.3   | NE                      | SE    | -             | -     | 2.0                  | 2.0   | 20.5                  | 32.0  |       |
| 9       | 16.0                 | 24.0  | 28.0                 | 34.0   | 23.0                | 30.0   | 17.0              | 24.0  | 52.0                  | 59.0   | -                         | -     | 2.1                     | 1.9   | SW                      | SE    | -             | -     | 1.6                  | 2.0   | 20.5                  | 31.5  |       |
| 10      | 17.0                 | 23.0  | 28.0                 | 35.0   | 22.0                | 32.0   | 18.0              | 25.0  | 66.0                  | 55.0   | -                         | -     | 0.1                     | 0.5   | SE                      | SE    | -             | -     | 1.8                  | 2.0   | 20.0                  | 32.0  |       |
| 11      | 20.0                 | 24.0  | 30.0                 | 34.0   | 24.0                | 30.0   | 20.0              | 25.0  | 68.0                  | 65.0   | -                         | -     | 1.2                     | 2.1   | SW                      | SE    | -             | -     | 2.0                  | 2.2   | 21.5                  | 31.5  |       |
| 12      | 22.0                 | 25.0  | 29.0                 | 35.0   | 25.0                | 32.0   | 20.0              | 24.0  | 61.0                  | 49.0   | -                         | -     | 0.7                     | 5.3   | SW                      | SE    | -             | -     | 2.0                  | 2.0   | 22.5                  | 32.0  |       |
| 13      | 21.0                 | 25.0  | 30.0                 | 33.5   | 24.0                | 32.0   | 18.5              | 25.0  | 57.0                  | 55.0   | -                         | -     | 0.2                     | 0.2   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 21.5                  | 33.5  |       |
| 14      | 19.0                 | 28.0  | 26.0                 | 36.0   | 24.0                | 33.0   | 19.0              | 29.0  | 60.0                  | 73.5   | -                         | -     | 3.2                     | 2.1   | NW                      | SE    | -             | -     | 2.0                  | 2.2   | 21.0                  | 34.0  |       |
| 15      | 20.0                 | 26.0  | 35.0                 | 34.0   | 25.0                | 31.0   | 20.0              | 28.0  | 61.0                  | 78.5   | -                         | -     | 0.2                     | 0.4   | NE                      | NW    | -             | -     | 1.8                  | 1.8   | 22.0                  | 32.0  |       |
| 16      | 21.0                 | 22.0  | 31.0                 | 26.0   | 23.0                | 23.0   | 20.5              | 21.0  | 79.0                  | 82.0   | -                         | -     | 3.1                     | 3.4   | SW                      | SW    | 0.6           | -     | 2.0                  | 0.4   | 22.5                  | 23.0  |       |
| 17      | 19.0                 | 25.0  | 28.0                 | 33.0   | 21.0                | 32.0   | 17.0              | 22.0  | 65.0                  | 39.0   | -                         | -     | 0.3                     | 5.0   | SW                      | SE    | -             | -     | 1.0                  | 1.4   | 20.0                  | 31.0  |       |
| 18      | 19.0                 | 30.0  | 26.0                 | 31.0   | 23.0                | 32.0   | 20.0              | 24.0  | 75.0                  | 49.0   | -                         | -     | 0.4                     | 2.3   | SW                      | SE    | -             | -     | 1.6                  | 2.0   | 21.5                  | 33.0  |       |
| 19      | 18.0                 | 30.0  | 34.0                 | 33.0   | 23.0                | 33.0   | 19.0              | 28.0  | 47.0                  | 67.5   | -                         | -     | 0.5                     | 2.4   | NW                      | SE    | -             | -     | 2.0                  | 2.0   | 22.0                  | 32.0  |       |
| 20      | 18.0                 | 26.0  | 29.0                 | 35.0   | 24.0                | 33.0   | 18.0              | 24.0  | 53.0                  | 45.0   | -                         | -     | -                       | 2.3   | NE                      | SW    | -             | -     | 2.4                  | 2.4   | 21.5                  | 33.0  |       |
| 21      | 20.0                 | 25.0  | 34.0                 | 36.0   | 25.0                | 32.0   | 20.0              | 28.0  | 61.0                  | 73.0   | -                         | -     | 1.0                     | 0.8   | SW                      | SW    | -             | -     | 2.2                  | 2.4   | 22.0                  | 32.0  |       |
| 22      | 20.0                 | 25.0  | 34.0                 | 38.0   | 24.0                | 34.0   | 21.0              | 24.0  | 75.0                  | 41.0   | -                         | -     | 0.8                     | 2.7   | NW                      | SE    | -             | -     | 1.8                  | 1.8   | 22.0                  | 33.0  |       |
| 23      | 20.5                 | 29.0  | 31.5                 | 38.0   | 28.0                | 34.0   | 19.0              | 21.0  | 39.0                  | 27.0   | -                         | -     | 0.3                     | 4.6   | NW                      | SE    | -             | -     | 2.6                  | 1.6   | 22.5                  | 32.0  |       |
| 24      | 20.0                 | 28.0  | 32.0                 | 38.0   | 28.0                | 36.0   | 19.5              | 23.0  | 42.0                  | 30.0   | -                         | -     | 0.4                     | 2.7   | NW                      | SE    | -             | -     | 1.4                  | 1.8   | 22.0                  | 34.0  |       |
| 25      | 20.0                 | 25.0  | 33.0                 | 38.0   | 23.0                | 34.0   | 19.0              | 24.0  | 67.0                  | 41.0   | -                         | -     | 0.1                     | 2.4   | NW                      | SE    | -             | -     | 2.6                  | 2.0   | 22.0                  | 33.0  |       |
| 26      | 20.0                 | 24.0  | 34.0                 | 38.0   | 24.0                | 35.0   | 18.0              | 22.0  | 53.0                  | 28.5   | -                         | -     | 0.3                     | 3.7   | SE                      | NW    | -             | -     | 3.2                  | 3.0   | 21.5                  | 33.0  |       |
| 27      | 18.0                 | 27.0  | 37.0                 | 40.0   | 26.0                | 36.0   | 19.0              | 22.0  | 49.0                  | 26.0   | -                         | -     | 0.2                     | 2.9   | NW                      | SE    | -             | -     | 2.2                  | 3.0   | 21.5                  | 34.0  |       |
| 28      | 19.0                 | 28.0  | 39.0                 | 40.0   | 26.0                | 36.0   | 19.5              | 28.0  | 52.0                  | 48.0   | -                         | -     | 0.1                     | 2.1   | NW                      | SE    | -             | -     | 2.6                  | 2.6   | 21.5                  | 34.0  |       |
| 29      | 20.0                 | 27.0  | 39.0                 | 40.0   | 26.0                | 36.0   | 19.0              | 22.0  | 49.0                  | 26.0   | -                         | -     | 0.1                     | 1.7   | SE                      | NE    | -             | -     | 1.6                  | 2.4   | 22.0                  | 34.0  |       |
| 30      | 20.0                 | 28.0  | 39.0                 | 40.0   | 27.0                | 36.0   | 20.0              | 22.0  | 50.0                  | 26.0   | -                         | -     | 0.1                     | 3.2   | SE                      | NW    | -             | -     | 2.6                  | 2.6   | 22.5                  | 33.0  |       |
| 31      | 20.0                 |       | 38.0                 |        | 28.0                |        | 20.0              |       | 45.0                  |        | -                         |       | 0.2                     |       | NW                      |       | -             |       | 2.4                  |       | 23.0                  |       |       |
| Total   | 599.0                | 785.0 | 1006.5               | 1082.5 | 753.0               | 1000.0 | 593.0             | 782.0 | 1844.0                | 1767.0 | -                         | 5.0   | 21.2                    | 69.8  |                         |       | 0.6           | -     | 62.4                 | 65.4  | 666.5                 | 990.0 |       |
| Average | 19.3                 | 25.3  | 32.5                 | 34.9   | 24.3                | 32.3   | 19.1              | 25.2  | 59.5                  | 57.0   | -                         | 0.2   | 0.7                     | 2.3   |                         |       |               |       |                      |       | 21.5                  | 31.9  |       |
|         | 22.3                 |       | 33.7                 |        | 28.3                |        | 22.2              |       | 58.2                  |        | 0.1                       |       | 1.5                     |       |                         |       | 0.6           |       | 127.8                |       | 26.7                  |       |       |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       | - 0.0 |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |       |
| LPM     |                      | 30.0  |                      | 41.0   |                     | 36.0   |                   | 28.0  |                       | 48.0   |                           | -     |                         | 2.5   |                         | NE    |               | -     |                      | 2.0   |                       | 33.0  |       |
| 1       | 21.0                 | 29.0  | 35.0                 | 33.0   | 26.0                | 30.0   | 19.0              | 21.0  | 49.0                  | 42.0   | 2.0                       | 4.0   | 0.4                     | 1.4   | NE                      | NW    | -             | -     | 1.6                  | 1.8   | 23.0                  | 28.0  |       |
| 2       | 18.5                 | 30.0  | 31.0                 | 33.0   | 25.0                | 31.0   | 19.0              | 22.0  | 54.0                  | 43.0   | -                         | -     | 3.2                     | 4.1   | SE                      | NW    | -             | -     | 2.8                  | 3.6   | 20.5                  | 30.0  |       |
| 3       | 22.0                 | 30.0  | 36.0                 | 38.0   | 28.0                | 32.0   | 23.0              | 25.0  | 64.0                  | 55.0   | -                         | -     | 0.2                     | 2.1   | NW                      | SE    | -             | -     | 2.8                  | 3.4   | 23.5                  | 31.0  |       |
| 4       | 23.0                 | 31.0  | 38.5                 | 39.0   | 28.0                | 35.0   | 23.5              | 27.0  | 67.0                  | 52.0   | 2.0                       | -     | 0.3                     | 3.1   | SE                      | SE    | -             | -     | 3.0                  | 3.6   | 24.5                  | 31.5  |       |
| 5       | 23.0                 | 32.0  | 36.5                 | 39.0   | 27.0                | 34.0   | 24.0              | 27.0  | 77.0                  | 56.0   | -                         | -     | 0.3                     | 0.1   | NW                      | SE    | -             | -     | 2.6                  | 3.6   | 24.0                  | 32.0  |       |
| 6       | 22.0                 | 32.0  | 35.0                 | 40.0   | 28.0                | 34.0   | 24.0              | 27.0  | 70.0                  | 56.0   | -                         | -     | 2.9                     | 6.1   | SW                      | NW    | -             | -     | 2.8                  | 3.8   | 25.0                  | 32.0  |       |
| 7       | 24.0                 | 33.0  | 35.0                 | 39.0   | 26.0                | 33.0   | 23.0              | 28.0  | 76.0                  | 67.5   | -                         | -     | 0.7                     | 0.9   | NW                      | SE    | -             | -     | 2.6                  | 3.6   | 26.0                  | 33.0  |       |
| 8       | 25.0                 | 34.0  | 36.0                 | 40.0   | 26.0                | 34.0   | 24.0              | 28.0  | 84.0                  | 62.0   | -                         | -     | 0.7                     | 5.8   | SW                      | NW    | -             | -     | 2.4                  | 3.4   | 25.0                  | 32.0  |       |
| 9       | 25.0                 | 34.0  | 36.0                 | 40.0   | 27.0                | 33.0   | 24.0              | 29.0  | 77.0                  | 73.5   | -                         | -     | 1.5                     | 5.2   | NE                      | SE    | -             | -     | 2.6                  | 3.8   | 26.0                  | 32.0  |       |
| 10      | 23.0                 | 33.0  | 37.0                 | 40.0   | 28.0                | 34.0   | 23.0              | 28.0  | 64.0                  | 62.0   | -                         | -     | 0.5                     | 2.8   | SE                      | NE    | -             | -     | 2.2                  | 3.6   | 26.0                  | 32.0  |       |
| 11      | 25.0                 | 30.0  | 39.0                 | 39.0   | 30.0                | 34.0   | 22.0              | 25.0  | 47.0                  | 64.0   | -                         | -     | 0.7                     | 4.6   | SW                      | NE    | -             | -     | 2.6                  | 3.2   | 25.5                  | 33.0  |       |
| 12      | 23.0                 | 31.0  | 37.0                 | 39.0   | 27.0                | 34.0   | 22.0              | 28.0  | 63.0                  | 62.0   | 2.0                       | -     | 0.4                     | 4.4   | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 25.0                  | 32.0  |       |
| 13      | 24.0                 | 31.0  | 32.0                 | 40.0   | 28.0                | 32.0   | 23.0              | 28.0  | 64.0                  | 73.0   | 2.0                       | -     | 1.2                     | 3.4   | SW                      | NE    | -             | -     | 1.8                  | 3.2   | 25.0                  | 32.0  |       |
| 14      | 24.0                 | 30.0  | 35.0                 | 39.0   | 28.0                | 34.0   | 23.0              | 25.0  | 64.0                  | 46.0   | 6.0                       | -     | 1.1                     | 8.3   | SE                      | SW    | 1.0           | -     | 1.6                  | 3.0   | 26.0                  | 33.0  |       |
| 15      | 23.0                 | 29.0  | 36.0                 | 39.0   | 27.0                | 35.0   | 22.0              | 27.0  | 63.0                  | 32.0   | -                         | -     | 0.4                     | 4.5   | NE                      | NE    | -             | -     | 1.6                  | 2.6   | 24.0                  | 34.0  |       |
| 16      | 24.0                 | 30.0  | 37.0                 | 40.0   | 27.0                | 34.0   | 22.0              | 26.0  | 63.0                  | 51.0   | -                         | -     | 2.4                     | 4.5   | NE                      | NE    | -             | -     | 3.0                  | 2.8   | 24.5                  | 33.0  |       |
| 17      | 26.0                 | 30.0  | 40.0                 | 39.0   | 32.0                | 34.0   | 25.0              | 27.0  | 55.0                  | 56.0   | -                         | 2.0   | 0.3                     | 5.1   | NW                      | NE    | -             | -     | 3.0                  | 2.6   | 27.0                  | 34.0  |       |
| 18      | 24.5                 | 30.0  | 36.0                 | 40.0   | 30.0                | 33.0   | 24.0              | 27.0  | 59.0                  | 61.5   | -                         | -     | 1.5                     | 4.2   | SE                      | NE    | -             | -     | 2.8                  | 2.8   | 26.0                  | 34.0  |       |
| 19      | 24.0                 | 30.0  | 42.0                 | 40.0   | 30.0                | 34.0   | 23.5              | 27.0  | 56.0                  | 56.0   | -                         | -     | 0.6                     | 0.4   | SW                      | NE    | -             | -     | 3.4                  | 2.8   | 26.0                  | 34.0  |       |
| 20      | 24.0                 | 30.0  | 40.0                 | 39.0   | 32.0                | 34.0   | 24.0              | 27.0  | 49.0                  | 56.0   | -                         | -     | 0.2                     | 3.7   | NE                      | NE    | -             | -     | 3.0                  | 2.6   | 26.0                  | 34.0  |       |
| 21      | 24.0                 | 30.0  | 40.0                 | 40.0   | 32.0                | 35.0   | 24.0              | 27.0  | 49.0                  | 52.0   | -                         | -     | 1.5                     | 5.4   | NE                      | SW    | -             | -     | 1.8                  | 2.8   | 27.0                  | 33.0  |       |
| 22      | 26.0                 | 29.0  | 35.0                 | 40.0   | 33.0                | 34.0   | 23.0              | 25.0  | 40.0                  | 46.0   | -                         | -     | 0.8                     | 3.0   | SW                      | SE    | -             | -     | 2.0                  | 3.0   | 26.5                  | 34.0  |       |
| 23      | 26.0                 | 30.0  | 40.0                 | 39.0   | 30.0                | 32.0   | 21.0              | 28.0  | 42.0                  | 73.0   | -                         | -     | 0.1                     | 2.8   | NE                      | SE    | -             | -     | 2.0                  | 2.8   | 26.0                  | 34.0  |       |
| 24      | 25.0                 | 30.0  | 37.0                 | 40.0   | 30.0                | 33.0   | 24.0              | 27.0  | 59.0                  | 61.5   | -                         | -     | 0.2                     | 2.7   | SW                      | SE    | -             | -     | 1.8                  | 2.8   | 6.5                   | 33.0  |       |
| 25      | 24.0                 | 30.0  | 34.0                 | 39.0   | 31.0                | 32.0   | 23.0              | 28.0  | 48.0                  | 73.0   | 2.0                       | -     | 1.1                     | 4.7   | SW                      | NE    | -             | -     | 2.0                  | 3.0   | 27.0                  | 34.0  |       |
| 26      | 23.0                 | 30.0  | 33.0                 | 39.0   | 32.0                | 34.0   | 22.0              | 25.0  | 39.0                  | 46.0   | -                         | -     | 0.9                     | 3.4   | NE                      | SE    | -             | -     | 1.8                  | 2.8   | 25.0                  | 33.0  |       |
| 27      | 24.0                 | 30.0  | 33.0                 | 40.0   | 30.0                | 32.0   | 23.0              | 28.0  | 53.0                  | 73.0   | -                         | -     | 2.0                     | 1.9   | SW                      | SE    | -             | -     | 2.6                  | 3.0   | 24.5                  | 34.0  |       |
| 28      | 26.0                 | 30.0  | 38.0                 | 40.0   | 31.0                | 34.0   | 26.0              | 25.0  | 66.0                  | 46.0   | 2.0                       | -     | 2.8                     | 5.3   | SW                      | NE    | -             | -     | 2.2                  | 2.8   | 24.0                  | 33.0  |       |
| 29      | 24.0                 | 30.0  | 34.0                 | 40.0   | 30.0                | 33.0   | 23.0              | 27.0  | 53.0                  | 61.5   | -                         | -     | 2.7                     | 2.8   | SE                      | NE    | -             | -     | 2.8                  | 2.8   | 24.0                  | 34.0  |       |
| 30      | 27.0                 |       | 38.0                 |        | 32.0                |        | 26.0              |       | 61.0                  |        | -                         |       | 1.6                     |       | SE                      |       | -             |       | 2.8                  |       | 27.0                  |       |       |
| Total   | 717.0                | 918.0 | 1092.0               | 1173.0 | 871.0               | 1003.0 | 692.0             | 797.0 | 1775.0                | 1706.5 | 18.0                      | 6.0   | 32.9                    | 109.2 |                         |       | 1.0           | -     | 72.0                 | 90.6  | 736.0                 | 981.5 |       |
| Average | 23.9                 | 30.6  | 36.4                 | 39.1   | 29.0                | 33.4   | 23.1              | 26.6  | 59.2                  | 56.9   | 0.6                       | 0.2   | 1.1                     | 3.6   |                         |       |               |       |                      |       | 24.5                  | 32.7  |       |
|         | 27.3                 |       | 37.8                 |        | 31.2                |        | 24.8              |       | 58.0                  |        | 0.4                       |       | 2.4                     |       |                         |       | 1.0           |       | 162.6                |       | 28.6                  |       |       |

## Twice Daily Climatic Data

Station Code : EM000R2

Local River/Basin : Mahanadi

Station Name : Basantpur

Sub-Division : MMSD I,CWC,Raipur

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        | - 0.0 |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |       |
| LPM     |                      | 30.0  |                      | 40.0   |                     | 34.0   |                   | 26.0  |                       | 51.0   |                           | -     |                         | 3.5   |                         | SW    |               | -     |                      | 2.8   |                       | 33.0   |       |
| 1       | 26.0                 | 27.0  | 39.0                 | 41.0   | 30.0                | 32.0   | 23.0              | 27.0  | 53.0                  | 67.0   | 2.0                       | -     | 2.5                     | 3.6   | N                       | SW    | -             | 5.2   | 2.6                  | 2.8   | 26.5                  | 32.0   |       |
| 2       | 24.0                 | 27.0  | 41.0                 | 41.0   | 30.0                | 32.0   | 23.0              | 27.0  | 53.0                  | 67.0   | -                         | -     | 2.1                     | 3.1   | SW                      | NE    | -             | -     | 3.0                  | 3.0   | 26.0                  | 30.0   |       |
| 3       | 24.0                 | 28.0  | 33.0                 | 40.0   | 28.0                | 35.0   | 23.0              | 27.0  | 64.0                  | 52.0   | 2.0                       | -     | 4.1                     | 2.1   | E                       | SE    | -             | -     | 2.4                  | 2.0   | 26.0                  | 30.0   |       |
| 4       | 25.0                 | 30.0  | 36.0                 | 39.0   | 30.0                | 37.0   | 24.0              | 26.0  | 59.0                  | 39.0   | 2.0                       | -     | 1.6                     | 6.7   | NE                      | SW    | -             | -     | 3.4                  | 2.4   | 27.5                  | 31.0   |       |
| 5       | 26.0                 | 28.0  | 38.0                 | 40.0   | 32.0                | 32.0   | 25.0              | 27.0  | 55.0                  | 67.0   | -                         | -     | 1.3                     | 5.2   | SW                      | SE    | -             | -     | 3.0                  | 2.2   | 27.0                  | 31.0   |       |
| 6       | 28.0                 | 36.0  | 36.0                 | 44.0   | 36.0                | 38.0   | 26.0              | 31.0  | 43.0                  | 59.0   | -                         | -     | 2.6                     | 6.1   | E                       | NE    | -             | -     | 3.0                  | 3.8   | 29.5                  | 36.0   |       |
| 7       | 29.0                 | 28.0  | 41.0                 | 40.0   | 34.0                | 35.0   | 26.0              | 27.0  | 51.0                  | 53.0   | -                         | -     | 2.0                     | 8.0   | SW                      | SE    | -             | -     | 2.6                  | 3.0   | 29.5                  | 35.0   |       |
| 8       | 30.0                 | 30.0  | 37.0                 | 39.0   | 35.0                | 32.0   | 25.0              | 27.0  | 42.0                  | 67.0   | 2.0                       | -     | 1.0                     | 1.7   | NE                      | SE    | -             | -     | 3.2                  | 2.8   | 29.0                  | 33.0   |       |
| 9       | 28.0                 | 28.0  | 36.0                 | 40.0   | 30.0                | 38.0   | 24.0              | 31.0  | 59.0                  | 59.0   | -                         | -     | 4.0                     | 1.3   | SE                      | E     | -             | -     | 3.0                  | 2.8   | 28.5                  | 35.0   |       |
| 10      | 29.0                 | 30.0  | 37.0                 | 39.0   | 33.0                | 38.0   | 26.0              | 31.0  | 55.0                  | 59.0   | 2.0                       | -     | 2.8                     | 5.8   | SW                      | SE    | -             | -     | 2.4                  | 3.8   | 28.0                  | 36.0   |       |
| 11      | 29.0                 | 35.0  | 35.0                 | 44.0   | 34.0                | 40.0   | 26.0              | 27.0  | 51.0                  | 34.0   | 2.0                       | -     | 1.2                     | 3.6   | SW                      | SE    | -             | -     | 2.8                  | 2.8   | 29.0                  | 35.5   |       |
| 12      | 27.0                 | 30.0  | 40.0                 | 40.0   | 33.0                | 38.0   | 23.0              | 31.0  | 40.0                  | 59.0   | 2.0                       | -     | 1.0                     | 3.8   | SW                      | NE    | -             | -     | 3.2                  | 3.0   | 28.5                  | 35.0   |       |
| 13      | 27.0                 | 34.0  | 39.0                 | 40.0   | 33.0                | 38.0   | 23.0              | 25.0  | 40.0                  | 32.0   | 2.0                       | 2.0   | 3.4                     | 7.2   | NE                      | SE    | -             | -     | 3.0                  | 3.8   | 27.0                  | 33.0   |       |
| 14      | 24.0                 | 30.0  | 37.0                 | 39.0   | 25.0                | 40.0   | 23.0              | 27.0  | 84.0                  | 34.0   | -                         | -     | 2.5                     | 1.9   | SE                      | SW    | -             | -     | 3.2                  | 3.0   | 25.0                  | 35.0   |       |
| 15      | 24.0                 | 30.0  | 35.0                 | 40.0   | 25.0                | 36.0   | 23.0              | 30.0  | 84.0                  | 63.0   | -                         | -     | 1.5                     | 2.9   | SE                      | SE    | 2.2           | -     | 1.0                  | 3.0   | 24.0                  | 30.0   |       |
| 16      | 24.0                 | 29.0  | 34.0                 | 39.0   | 27.0                | 38.0   | 24.0              | 27.0  | 77.0                  | 70.0   | -                         | -     | 4.8                     | 6.5   | NE                      | NE    | -             | -     | 1.8                  | 2.8   | 25.0                  | 30.0   |       |
| 17      | 27.0                 | 30.0  | 34.0                 | 40.0   | 34.0                | 40.0   | 25.0              | 27.0  | 46.0                  | 34.0   | -                         | -     | 1.0                     | 6.8   | NE                      | SE    | -             | -     | 2.0                  | 3.0   | 27.5                  | 33.0   |       |
| 18      | 27.0                 | 34.0  | 37.0                 | 42.0   | 36.0                | 38.0   | 26.0              | 27.0  | 43.0                  | 40.0   | -                         | -     | 2.3                     | 7.4   | NE                      | NE    | -             | -     | 1.8                  | 3.0   | 28.0                  | 34.0   |       |
| 19      | 28.0                 | 34.0  | 41.0                 | 43.0   | 32.0                | 39.0   | 24.0              | 27.0  | 49.0                  | 37.0   | 2.0                       | -     | 2.4                     | 3.6   | SW                      | NE    | -             | -     | 2.6                  | 3.0   | 28.0                  | 34.0   |       |
| 20      | 30.0                 | 35.0  | 35.0                 | 43.0   | 34.0                | 38.0   | 27.0              | 30.0  | 56.0                  | 54.0   | 2.0                       | -     | 1.4                     | 6.1   | NE                      | NE    | -             | -     | 1.8                  | 3.0   | 28.0                  | 36.0   |       |
| 21      | 29.0                 | 34.0  | 36.0                 | 43.0   | 33.0                | 39.0   | 26.0              | 27.0  | 55.0                  | 37.0   | -                         | -     | 0.7                     | 1.9   | SW                      | SE    | -             | -     | 2.6                  | 3.0   | 28.0                  | 34.0   |       |
| 22      | 30.0                 | 35.0  | 35.0                 | 43.0   | 34.0                | 40.0   | 27.0              | 27.0  | 56.0                  | 34.0   | -                         | -     | 6.1                     | 2.7   | NE                      | N     | -             | -     | 3.2                  | 3.8   | 31.0                  | 35.0   |       |
| 23      | 29.0                 | 35.0  | 40.0                 | 43.0   | 33.0                | 38.0   | 25.5              | 27.0  | 53.0                  | 40.0   | 2.0                       | -     | 3.8                     | 4.8   | SE                      | NE    | -             | -     | 2.6                  | 3.0   | 30.0                  | 34.0   |       |
| 24      | 30.0                 | 34.0  | 36.0                 | 42.0   | 34.0                | 38.0   | 26.0              | 31.0  | 51.0                  | 59.0   | 2.0                       | -     | 2.3                     | 3.9   | NW                      | SW    | -             | -     | 2.8                  | 3.0   | 29.0                  | 34.0   |       |
| 25      | 30.0                 | 35.0  | 35.0                 | 43.0   | 34.0                | 40.0   | 28.0              | 27.0  | 59.0                  | 34.0   | -                         | -     | 3.3                     | 2.4   | SW                      | NE    | -             | -     | 3.0                  | 2.8   | 29.0                  | 30.0   |       |
| 26      | 27.0                 | 35.0  | 32.0                 | 43.0   | 31.0                | 38.0   | 26.0              | 31.0  | 66.0                  | 59.0   | 2.0                       | -     | 2.8                     | 3.6   | NW                      | SW    | 34.4          | -     | 1.4                  | 3.0   | 28.0                  | 30.0   |       |
| 27      | 30.0                 | 34.0  | 35.0                 | 42.0   | 33.0                | 38.0   | 26.0              | 31.0  | 51.0                  | 59.0   | -                         | -     | 0.2                     | 2.4   | SE                      | SW    | -             | -     | 1.2                  | 3.8   | 30.0                  | 34.0   |       |
| 28      | 29.5                 | 36.0  | 37.0                 | 42.0   | 34.0                | 39.0   | 27.0              | 32.0  | 56.0                  | 60.0   | -                         | -     | 2.1                     | 8.8   | SE                      | SW    | -             | -     | 2.4                  | 4.4   | 31.5                  | 35.0   |       |
| 29      | 30.0                 | 35.0  | 39.0                 | 43.0   | 35.0                | 38.0   | 28.0              | 31.0  | 57.0                  | 59.0   | -                         | -     | 1.3                     | 2.2   | SE                      | SE    | -             | -     | 2.8                  | 3.6   | 31.5                  | 36.0   |       |
| 30      | 29.5                 | 36.0  | 36.0                 | 42.0   | 34.0                | 38.0   | 27.0              | 32.0  | 56.0                  | 64.0   | -                         | -     | 4.4                     | 3.2   | SW                      | SE    | 2.8           | -     | 3.8                  | 3.8   | 30.5                  | 35.0   |       |
| 31      | 27.0                 |       | 34.0                 |        | 27.0                |        | 24.0              |       | 38.0                  |        | -                         |       | 2.7                     |       | NE                      |       | 17.0          |       | 2.0                  |       | 27.0                  |        |       |
| Total   | 857.0                | 992.0 | 1136.0               | 1279.0 | 993.0               | 1154.0 | 779.5             | 881.0 | 1702.0                | 1602.0 | 26.0                      | 2.0   | 75.1                    | 132.7 |                         |       | 56.4          | 5.2   | 79.6                 | 96.0  | 873.0                 | 1034.5 |       |
| Average | 27.6                 | 32.0  | 36.6                 | 41.3   | 32.0                | 37.2   | 25.1              | 28.4  | 54.9                  | 51.7   | 0.8                       | 0.1   | 2.4                     | 4.3   |                         |       |               |       |                      |       | 28.2                  | 33.4   |       |
|         | 29.8                 |       | 39.0                 |        | 34.6                |        | 26.8              |       | 53.3                  |        | 0.5                       |       | 3.4                     |       |                         |       | 61.6          |       | 175.6                |       | 30.8                  |        |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Jun-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 25.0  |                      | 38.0   |                     | 34.0  |                   | 23.0  |                       | 36.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 4.0   |                       | 31.5  |
| 1       | 24.0                 | 28.0  | 37.0                 | 40.0   | 28.0                | 33.0  | 23.0              | 29.0  | 64.0                  | 73.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 6.0   | 24.0                  | 29.0  |
| 2       | 26.0                 | 27.0  | 39.0                 | 39.0   | 27.0                | 34.0  | 24.0              | 27.0  | 77.0                  | 56.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 7.2           | -     | 2.0                  | 4.0   | 24.0                  | 26.0  |
| 3       | 28.0                 | 30.0  | 36.0                 | 41.5   | 29.0                | 39.0  | 24.0              | 26.0  | 64.0                  | 33.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 5.0   | 23.0                  | 26.0  |
| 4       | 28.0                 | 33.0  | 37.0                 | 41.5   | 29.0                | 40.0  | 25.0              | 25.0  | 71.0                  | 29.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 6.8   | 23.0                  | 34.0  |
| 5       | 30.0                 | 24.0  | 41.0                 | 42.0   | 34.0                | 25.0  | 26.0              | 20.0  | 51.0                  | 62.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 14.2  | 6.5                  | 6.2   | 28.0                  | 29.0  |
| 6       | 24.0                 | 28.0  | 29.0                 | 35.0   | 30.0                | 30.0  | 29.0              | 29.0  | 93.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 4.0   | 26.5                  | 28.5  |
| 7       | 25.5                 | 30.0  | 30.0                 | 39.0   | 31.0                | 36.0  | 30.0              | 35.0  | 93.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.2                  | 4.0   | 27.0                  | 29.0  |
| 8       | 25.0                 | 27.0  | 37.0                 | 39.0   | 27.0                | 37.0  | 26.0              | 35.0  | 92.0                  | 87.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 11.6          | -     | 3.4                  | 5.0   | 25.0                  | 30.0  |
| 9       | 25.0                 | 29.0  | 37.0                 | 39.0   | 30.0                | 33.0  | 29.0              | 26.0  | 93.0                  | 55.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 0.8           | -     | 2.8                  | 4.0   | 27.5                  | 32.0  |
| 10      | 25.5                 | 25.0  | 27.5                 | 38.0   | 29.0                | 26.0  | 24.0              | 25.0  | 64.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 9.0   | 3.2                  | 5.0   | 26.5                  | 28.5  |
| 11      | 25.5                 | 25.0  | 26.0                 | 35.0   | 26.0                | 29.0  | 24.0              | 24.0  | 84.0                  | 64.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.6   | 25.0                  | 30.5  |
| 12      | 25.5                 | 26.0  | 38.5                 | 35.0   | 27.0                | 32.0  | 23.5              | 25.0  | 74.0                  | 55.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.6                  | 4.0   | 26.0                  | 31.5  |
| 13      | 25.0                 | 28.0  | 33.0                 | 33.0   | 28.0                | 32.0  | 24.0              | 25.0  | 70.0                  | 55.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.4                  | 3.6   | 26.0                  | 30.5  |
| 14      | 27.0                 | 28.0  | 33.0                 | 37.0   | 28.0                | 36.0  | 24.0              | 27.0  | 70.0                  | 48.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 5.0   | 25.0                  | 32.0  |
| 15      | 27.0                 | 30.0  | 37.0                 | 40.0   | 30.0                | 31.0  | 25.0              | 30.0  | 65.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 5.0   | 26.0                  | 33.0  |
| 16      | 24.0                 | 22.0  | 30.0                 | 32.0   | 23.0                | 30.0  | 21.0              | 26.0  | 82.0                  | 72.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 35.4          | -     | 1.4                  | 4.4   | 22.0                  | 30.5  |
| 17      | 25.0                 | 27.5  | 30.0                 | 38.0   | 29.0                | 36.0  | 24.0              | 24.0  | 64.0                  | 34.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 4.0   | 26.5                  | 34.0  |
| 18      | 26.0                 | 30.0  | 32.0                 | 39.0   | 30.0                | 37.0  | 24.5              | 26.0  | 62.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.2                  | 4.5   | 27.0                  | 34.0  |
| 19      | 28.0                 | 29.0  | 38.0                 | 38.0   | 29.0                | 36.0  | 24.0              | 26.0  | 64.0                  | 43.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 5.4   | 26.5                  | 33.0  |
| 20      | 28.0                 | 30.0  | 36.0                 | 40.0   | 31.0                | 38.0  | 25.0              | 25.0  | 60.0                  | 32.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 6.0   | 27.5                  | 34.0  |
| 21      | 28.0                 | 28.0  | 39.0                 | 38.0   | 29.0                | 32.0  | 23.0              | 24.0  | 58.0                  | 49.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 1.4   | 4.0                  | 6.4   | 26.0                  | 30.0  |
| 22      | 25.0                 | 26.0  | 28.0                 | 36.0   | 26.0                | 33.0  | 24.0              | 30.0  | 84.0                  | 79.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 8.2           | -     | 4.2                  | 6.0   | 25.0                  | 31.0  |
| 23      | 23.5                 | 26.0  | 33.0                 | 34.0   | 27.0                | 32.0  | 26.0              | 25.5  | 92.0                  | 58.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 7.4           | -     | 1.2                  | 4.0   | 26.0                  | 32.0  |
| 24      | 24.5                 | 27.5  | 32.0                 | 31.5   | 28.0                | 28.0  | 24.0              | 24.0  | 70.0                  | 70.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.5                  | 4.0   | 27.0                  | 30.5  |
| 25      | 21.0                 | 22.5  | 36.0                 | 27.0   | 25.0                | 27.0  | 24.0              | 24.0  | 92.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 49.0          | 13.4  | 4.0                  | 1.4   | 23.0                  | 27.5  |
| 26      | 25.0                 | 24.0  | 27.0                 | 27.0   | 26.0                | 25.0  | 25.0              | 24.5  | 92.0                  | 96.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.6           | 9.0   | 1.6                  | 3.0   | 26.5                  | 26.5  |
| 27      | 23.0                 | 24.0  | 25.0                 | 28.0   | 25.0                | 27.0  | 24.0              | 24.0  | 92.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 3.6           | -     | 1.6                  | 2.0   | 25.0                  | 28.0  |
| 28      | 24.0                 | 24.0  | 27.0                 | 28.0   | 25.0                | 27.0  | 23.0              | 24.0  | 84.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.8           | -     | 1.8                  | 1.6   | 25.0                  | 27.0  |
| 29      | 24.5                 | 24.0  | 27.0                 | 29.0   | 26.0                | 27.0  | 24.0              | 26.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.6           | -     | 1.6                  | 1.4   | 25.0                  | 28.0  |
| 30      | 24.0                 |       | 27.0                 |        | 26.0                |       | 23.0              |       | 96.0                  |        | ..                        |       | ..                      |       | ..                      |       | 6.9           |       | 1.4                  |       | 25.0                  |       |
| Total   | 764.5                | 807.5 | 985.0                | 1077.5 | 838.0               | 962.0 | 739.0             | 784.0 | 2301.0                | 1920.5 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 135.1         | 47.0  | 84.6                 | 129.3 | 765.5                 | 907.0 |
| Average | 25.5                 | 26.9  | 32.8                 | 35.9   | 27.9                | 32.1  | 24.6              | 26.1  | 76.7                  | 64.0   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 25.5                  | 30.2  |
|         | 26.2                 |       | 34.4                 |        | 30.0                |       | 25.4              |       | 70.4                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 182.1         |       | 213.9                |       | 27.9                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      | -0.0  | N.A.                  |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 23.0  |                      | 28.0  |                     | 27.0  |                   | 25.0  |                       | 84.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 2.0   |                       | 27.0  |
| 1       | 23.0                 | 23.0  | 31.5                 | 31.0  | 25.0                | 30.0  | 23.0              | 25.0  | 84.0                  | 65.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 3.2           | -     | 1.2                  | 2.0   | 25.0                  | 29.0  |
| 2       | 23.0                 | 23.0  | 29.5                 | 27.5  | 24.0                | 27.0  | 23.0              | 24.0  | 91.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 13.6          | -     | 1.6                  | 1.2   | 24.0                  | 27.0  |
| 3       | 23.5                 | 24.5  | 27.0                 | 28.5  | 26.0                | 28.0  | 23.0              | 24.0  | 76.0                  | 70.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.2   | 25.0                  | 28.0  |
| 4       | 23.0                 | 25.0  | 28.0                 | 29.0  | 27.0                | 27.0  | 23.0              | 24.0  | 70.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.5   | 25.0                  | 28.0  |
| 5       | 23.0                 | 25.5  | 28.0                 | 32.0  | 27.0                | 31.0  | 23.0              | 27.0  | 70.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 2.0   | 24.0                  | 30.0  |
| 6       | 23.5                 | 26.0  | 28.0                 | 33.0  | 26.5                | 32.0  | 22.0              | 30.0  | 68.5                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 2.0   | 24.5                  | 31.0  |
| 7       | 25.0                 | 28.0  | 31.0                 | 33.0  | 29.0                | 30.0  | 24.0              | 23.0  | 64.0                  | 53.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 2.0   | 26.0                  | 30.0  |
| 8       | 26.0                 | 28.0  | 33.0                 | 35.0  | 28.0                | 34.0  | 24.0              | 25.0  | 70.0                  | 46.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 4.0   | 26.0                  | 32.0  |
| 9       | 25.5                 | 29.0  | 35.0                 | 34.0  | 29.0                | 31.0  | 25.0              | 25.0  | 71.0                  | 60.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.0   | 26.5                  | 30.0  |
| 10      | 26.0                 | 25.0  | 31.0                 | 28.0  | 27.0                | 25.0  | 25.0              | 24.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.4           | 8.2   | 1.4                  | 7.0   | 26.5                  | 25.0  |
| 11      | 26.0                 | 25.0  | 28.0                 | 29.0  | 24.5                | 27.0  | 23.0              | 25.0  | 91.0                  | 84.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 2.6           | 2.2   | 0.6                  | 1.2   | 22.0                  | 27.0  |
| 12      | 24.0                 | 26.0  | 27.0                 | 29.0  | 25.0                | 28.0  | 24.0              | 26.0  | 92.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 4.0           | -     | 1.0                  | 2.0   | 24.0                  | 28.0  |
| 13      | 25.0                 | 26.0  | 29.0                 | 29.0  | 26.0                | 28.0  | 24.5              | 27.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 2.0   | 23.0                  | 27.0  |
| 14      | 26.0                 | 24.0  | 28.0                 | 28.5  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 2.6   | 2.0                  | 2.0   | 25.0                  | 28.0  |
| 15      | 25.0                 | 24.0  | 29.0                 | 25.0  | 29.0                | 25.0  | 25.0              | 24.0  | 71.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 3.2           | 2.4   | 1.2                  | 1.6   | 24.5                  | 26.0  |
| 16      | 23.0                 | 25.0  | 25.0                 | 28.0  | 25.0                | 28.0  | 24.5              | 26.0  | 96.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 0.6           | 2.2   | 0.6                  | 0.9   | 24.5                  | 27.0  |
| 17      | 24.0                 | 23.0  | 27.0                 | 30.0  | 24.0                | 25.0  | 23.0              | 24.0  | 96.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 2.4           | 44.6  | 0.4                  | 1.2   | 24.0                  | 26.5  |
| 18      | 23.0                 | 25.0  | 25.0                 | 29.0  | 26.0                | 26.0  | 24.0              | 25.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 17.6          | 11.8  | 1.6                  | 6.6   | 25.5                  | 28.5  |
| 19      | 25.0                 | 25.0  | 27.0                 | 28.0  | 26.0                | 26.0  | 25.5              | 25.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 15.4          | 31.4  | 3.4                  | 0.8   | 25.5                  | 26.0  |
| 20      | 25.0                 | 25.0  | 26.0                 | 28.0  | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 1.6   | 1.0                  | 3.4   | 24.5                  | 26.5  |
| 21      | 25.5                 | 27.0  | 26.5                 | 30.0  | 26.0                | 30.0  | 25.5              | 29.0  | 96.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 3.6   | 25.0                  | 29.0  |
| 22      | 27.0                 | 27.0  | 29.0                 | 29.0  | 27.0                | 30.0  | 26.0              | 29.0  | 92.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.4           | -     | 0.8                  | 2.0   | 26.0                  | 28.5  |
| 23      | 26.0                 | 25.0  | 29.0                 | 29.0  | 27.0                | 29.0  | 26.0              | 28.0  | 92.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 0.4           | -     | 0.4                  | 2.6   | 24.5                  | 28.0  |
| 24      | 26.0                 | 26.0  | 29.0                 | 29.0  | 26.0                | 28.0  | 24.0              | 28.5  | 84.0                  | 96.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 8.2           | -     | 1.2                  | 1.6   | 24.5                  | 28.0  |
| 25      | 23.0                 | 26.0  | 28.5                 | 31.0  | 25.0                | 31.0  | 24.0              | 30.0  | 92.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 2.0   | 24.0                  | 29.5  |
| 26      | 24.0                 | 25.0  | 30.0                 | 25.0  | 25.0                | 24.0  | 24.0              | 24.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 9.8           | 0.8   | 1.8                  | 4.0   | 23.5                  | 25.0  |
| 27      | 25.0                 | 25.5  | 26.0                 | 27.0  | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 1.4   | 1.0                  | 0.2   | 23.0                  | 25.5  |
| 28      | 25.0                 | 25.0  | 27.0                 | 29.0  | 26.0                | 29.0  | 25.0              | 28.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 0.8   | 24.0                  | 29.0  |
| 29      | 25.0                 | 28.0  | 30.0                 | 32.0  | 25.0                | 32.0  | 24.0              | 24.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 4.0   | 24.0                  | 30.5  |
| 30      | 27.0                 | 27.5  | 31.0                 | 32.0  | 27.0                | 31.0  | 26.0              | 30.0  | 92.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.0   | 26.0                  | 30.5  |
| 31      | 27.0                 |       | 31.0                 |       | 28.0                |       | 26.0              |       | 85.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 3.0                  |       | 26.0                  |       |
| Total   | 768.0                | 790.0 | 890.0                | 915.5 | 814.0               | 881.0 | 754.0             | 806.5 | 2639.5                | 2606.0 | ..*                       | ..*   | ..*                     | ..*   |                         |       | 83.8          | 109.2 | 41.2                 | 71.4  | 765.5                 | 871.0 |
| Average | 24.8                 | 25.5  | 28.7                 | 29.5  | 26.3                | 28.4  | 24.3              | 26.0  | 85.1                  | 84.1   | ..*                       | ..*   | ..*                     | ..*   |                         |       |               |       |                      |       | 24.7                  | 28.1  |
|         | 25.1                 |       | 29.1                 |       | 27.3                |       | 25.2              |       | 84.6                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 193.0         |       | 112.6                |       | 26.4                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Aug-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 32.0  |                     | 31.5  |                   | 30.5  |                       | 93.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 3.6   |                       | 31.0  |
| 1       | 26.0                 | 28.0  | 30.0                 | 33.0  | 29.0                | 32.0  | 27.0              | 30.0  | 85.0                  | 86.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 26.5                  | 31.0  |
| 2       | 25.0                 | 28.0  | 32.0                 | 33.5  | 27.0                | 32.0  | 26.5              | 31.0  | 96.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 26.0                  | 31.5  |
| 3       | 26.0                 | 27.0  | 32.0                 | 32.0  | 27.0                | 32.0  | 25.0              | 26.0  | 84.0                  | 61.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 25.0                  | 30.5  |
| 4       | 26.0                 | 27.0  | 30.0                 | 32.0  | 27.0                | 28.0  | 24.0              | 25.0  | 77.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 5.8   | 2.0                  | 1.8   | 25.0                  | 29.0  |
| 5       | 26.0                 | 26.0  | 28.0                 | 29.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.8           | 1.8   | 0.8                  | 0.8   | 25.0                  | 28.0  |
| 6       | 25.0                 | 26.0  | 27.0                 | 30.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 2.8           | 1.0   | 0.8                  | 1.0   | 24.5                  | 26.0  |
| 7       | 25.0                 | 23.5  | 26.0                 | 27.0  | 26.0                | 27.0  | 24.5              | 25.0  | 92.0                  | 84.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 24.5                  | 27.0  |
| 8       | 25.0                 | 25.0  | 28.0                 | 29.0  | 26.0                | 27.0  | 25.0              | 25.5  | 93.0                  | 84.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 3.0   | 25.0                  | 26.5  |
| 9       | 23.0                 | 25.0  | 27.0                 | 29.0  | 24.5                | 28.0  | 23.0              | 26.0  | 91.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 22.8          | 9.8   | 2.8                  | 2.8   | 23.5                  | 28.0  |
| 10      | 24.0                 | 25.0  | 28.0                 | 28.5  | 25.0                | 27.0  | 23.0              | 25.0  | 84.0                  | 84.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.0   | 23.5                  | 28.5  |
| 11      | 24.5                 | 26.0  | 29.5                 | 32.0  | 26.0                | 31.0  | 24.0              | 26.0  | 84.0                  | 66.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 4.0   | 24.5                  | 31.0  |
| 12      | 26.0                 | 26.5  | 32.0                 | 32.0  | 26.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 70.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 0.4   | 2.0                  | 2.8   | 25.0                  | 29.5  |
| 13      | 26.0                 | 26.0  | 29.0                 | 32.0  | 28.0                | 31.0  | 25.5              | 27.0  | 74.0                  | 72.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.0   | 25.5                  | 30.5  |
| 14      | 25.0                 | 26.0  | 31.0                 | 32.0  | 26.0                | 31.0  | 24.0              | 26.5  | 84.0                  | 65.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.0           | -     | 0.2                  | 2.0   | 24.5                  | 31.0  |
| 15      | 25.0                 | 26.5  | 31.0                 | 32.0  | 26.0                | 31.0  | 24.5              | 26.0  | 88.0                  | 62.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 0.4           | 1.4   | 0.6                  | 0.4   | 24.5                  | 30.0  |
| 16      | 25.0                 | 26.0  | 32.0                 | 32.0  | 26.0                | 27.0  | 24.5              | 25.0  | 88.0                  | 84.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 19.2  | 1.0                  | 1.2   | 25.0                  | 29.0  |
| 17      | 25.0                 | 25.5  | 26.0                 | 31.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 7.2           | 26.6  | 1.2                  | 2.4   | 25.0                  | 29.0  |
| 18      | 24.0                 | 25.0  | 27.0                 | 29.0  | 25.0                | 28.0  | 24.5              | 27.0  | 88.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 17.8          | 11.6  | 0.8                  | 1.6   | 24.0                  | 29.0  |
| 19      | 24.0                 | 24.0  | 27.0                 | 28.0  | 25.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 6.8           | 0.8   | 1.8                  | 1.8   | 25.0                  | 29.0  |
| 20      | 23.0                 | 25.0  | 28.0                 | 29.0  | 28.0                | 29.0  | 25.0              | 28.0  | 77.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.4           | -     | 2.2                  | 2.0   | 26.0                  | 29.0  |
| 21      | 23.0                 | 24.0  | 27.0                 | 29.0  | 27.0                | 29.0  | 24.5              | 25.0  | 81.0                  | 71.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 44.4          | -     | 1.4                  | 2.0   | 24.5                  | 30.5  |
| 22      | 23.0                 | 24.5  | 28.5                 | 30.8  | 26.0                | 29.5  | 24.0              | 27.0  | 84.0                  | 89.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 25.5                  | 31.0  |
| 23      | 25.0                 | 27.0  | 30.0                 | 33.0  | 27.0                | 32.0  | 25.0              | 27.0  | 84.0                  | 67.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 2.0   | 26.0                  | 32.0  |
| 24      | 24.0                 | 25.0  | 27.0                 | 30.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 5.2           | -     | 1.2                  | 3.0   | 24.5                  | 30.0  |
| 25      | 24.5                 | 25.0  | 29.0                 | 32.0  | 26.5                | 29.0  | 26.0              | 28.0  | 96.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 4.4           | 0.6   | 1.4                  | 2.6   | 25.0                  | 31.0  |
| 26      | 25.0                 | 25.0  | 28.0                 | 33.0  | 27.0                | 29.0  | 25.0              | 25.5  | 84.0                  | 74.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 3.0   | 27.0                  | 33.0  |
| 27      | 25.5                 | 26.0  | 29.0                 | 30.5  | 27.0                | 29.0  | 25.0              | 28.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 12.4  | 2.0                  | 1.4   | 27.5                  | 28.0  |
| 28      | 25.0                 | 27.0  | 27.0                 | 28.0  | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 18.6          | 16.0  | 2.6                  | 2.0   | 25.0                  | 29.0  |
| 29      | 23.5                 | 26.0  | 28.0                 | 28.0  | 25.0                | 27.0  | 24.0              | 26.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 50.0          | 2.0   | 1.0                  | 1.0   | 25.0                  | 25.5  |
| 30      | 24.0                 | 27.0  | 28.5                 | 29.0  | 27.0                | 28.0  | 25.0              | 27.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 3.0   | 25.5                  | 26.0  |
| 31      | 24.0                 |       | 28.0                 |       | 27.0                |       | 25.0              |       | 84.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 1.5                  |       | 25.5                  |       |
| Total   | 765.0                | 800.5 | 890.5                | 947.3 | 819.0               | 900.0 | 766.5             | 823.0 | 2686.0                | 2535.0 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 184.6         | 109.4 | 46.0                 | 68.4  | 778.5                 | 910.0 |
| Average | 24.7                 | 25.8  | 28.7                 | 30.6  | 26.4                | 29.0  | 24.7              | 26.5  | 86.6                  | 81.8   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 25.1                  | 29.4  |
|         | 25.3                 |       | 29.6                 |       | 27.7                |       | 25.6              |       | 84.2                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 294.0         |       | 114.4                |       | 27.2                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 30.0  |                     | 28.0  |                   | 27.0  |                       | 92.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 3.0   |                       | 26.0  |
| 1       | 26.0                 | 27.0  | 33.0                 | 33.0  | 29.0                | 29.0  | 28.0              | 28.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.4                  | 2.0   | 27.0                  | 30.0  |
| 2       | 25.0                 | 27.0  | 30.5                 | 33.0  | 27.0                | 32.0  | 26.0              | 26.0  | 92.0                  | 61.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 5.0   | 27.0                  | 31.0  |
| 3       | 25.5                 | 27.0  | 32.0                 | 35.0  | 28.0                | 30.0  | 26.0              | 26.0  | 85.0                  | 72.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 3.0   | 26.5                  | 31.5  |
| 4       | 26.5                 | 27.0  | 28.0                 | 31.0  | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 0.4   | 3.0                  | 3.6   | 26.0                  | 31.5  |
| 5       | 25.0                 | 28.0  | 29.0                 | 33.0  | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 3.0   | 27.5                  | 32.0  |
| 6       | 26.0                 | 28.0  | 28.0                 | 36.0  | 28.0                | 34.0  | 25.5              | 29.0  | 88.0                  | 68.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 4.0   | 27.0                  | 34.0  |
| 7       | 27.0                 | 28.0  | 28.0                 | 35.0  | 28.0                | 32.0  | 26.0              | 30.0  | 85.0                  | 67.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 4.0   | 26.0                  | 32.5  |
| 8       | 26.5                 | 28.0  | 33.0                 | 35.0  | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 72.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.5                  | 4.0   | 27.0                  | 32.5  |
| 9       | 24.5                 | 25.5  | 27.5                 | 35.0  | 24.0                | 28.0  | 23.0              | 25.0  | 77.0                  | 91.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 29.8  | 3.0                  | 4.8   | 27.0                  | 27.5  |
| 10      | 24.5                 | 25.0  | 33.0                 | 35.0  | 26.0                | 31.0  | 25.0              | 27.0  | 92.0                  | 73.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 10.0          | -     | 3.5                  | 2.0   | 25.0                  | 33.5  |
| 11      | 25.5                 | 27.0  | 31.5                 | 32.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.8                  | 2.4   | 28.0                  | 31.5  |
| 12      | 25.0                 | 26.5  | 30.0                 | 32.0  | 28.0                | 29.0  | 26.5              | 27.0  | 88.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 28.0                  | 31.0  |
| 13      | 25.5                 | 26.0  | 30.0                 | 31.0  | 28.5                | 29.0  | 26.0              | 27.0  | 88.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 4.6   | 2.0                  | 1.6   | 28.5                  | 29.0  |
| 14      | 26.0                 | 26.0  | 28.0                 | 30.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 2.2   | 1.5                  | 2.2   | 27.5                  | 29.0  |
| 15      | 24.0                 | 25.0  | 29.0                 | 31.0  | 26.0                | 29.0  | 25.5              | 26.0  | 96.0                  | 78.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.0   | 25.0                  | 30.5  |
| 16      | 24.0                 | 26.0  | 30.0                 | 35.0  | 27.0                | 31.0  | 25.0              | 28.0  | 84.0                  | 78.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.4   | 26.5                  | 31.0  |
| 17      | 26.0                 | 26.5  | 32.0                 | 32.0  | 27.0                | 30.0  | 25.5              | 28.0  | 88.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 3.2   | 27.0                  | 32.0  |
| 18      | 23.5                 | 24.0  | 31.0                 | 33.0  | 25.0                | 30.0  | 24.0              | 27.0  | 92.0                  | 78.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 25.0                  | 30.5  |
| 19      | 23.0                 | 24.0  | 29.0                 | 31.0  | 25.0                | 30.0  | 24.0              | 25.0  | 92.0                  | 64.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 35.0          | 3.4   | 3.0                  | 3.4   | 25.0                  | 26.0  |
| 20      | 24.0                 | 24.0  | 25.0                 | 28.0  | 25.5                | 27.0  | 24.0              | 24.0  | 73.0                  | 96.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 98.4          | 58.6  | 1.4                  | 2.6   | 23.0                  | 25.0  |
| 21      | 24.0                 | 26.0  | 25.0                 | 29.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 3.2           | -     | 1.2                  | 3.0   | 24.0                  | 25.0  |
| 22      | 25.0                 | 26.0  | 29.0                 | 30.0  | 25.0                | 29.0  | 24.0              | 27.0  | 92.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 25.0                  | 29.0  |
| 23      | 25.0                 | 25.0  | 29.0                 | 32.0  | 26.0                | 30.0  | 25.0              | 29.0  | 92.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 25.5                  | 32.0  |
| 24      | 26.0                 | 27.0  | 31.0                 | 32.0  | 27.0                | 31.0  | 25.0              | 27.5  | 84.0                  | 75.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 26.0                  | 33.0  |
| 25      | 26.0                 | 26.5  | 32.0                 | 33.0  | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 73.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 26.5                  | 32.5  |
| 26      | 26.0                 | 27.0  | 28.0                 | 32.0  | 27.0                | 31.0  | 26.0              | 26.0  | 85.0                  | 65.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 3.0   | 26.5                  | 31.0  |
| 27      | 24.0                 | 26.0  | 28.0                 | 32.0  | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.5                  | 3.0   | 26.0                  | 31.0  |
| 28      | 26.0                 | 26.0  | 31.0                 | 32.0  | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.5   | 26.0                  | 30.0  |
| 29      | 25.0                 | 27.0  | 29.0                 | 33.0  | 27.0                | 28.0  | 25.0              | 27.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.2           | 0.2   | 2.2                  | 1.8   | 25.0                  | 30.0  |
| 30      | 25.0                 |       | 29.0                 |       | 28.0                |       | 25.0              |       | 77.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 1.5                  |       | 26.0                  |       |
| Total   | 755.0                | 789.0 | 888.5                | 971.0 | 810.0               | 896.0 | 763.0             | 809.5 | 2611.0                | 2404.0 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 147.8         | 99.2  | 74.5                 | 89.5  | 786.0                 | 911.0 |
| Average | 25.2                 | 26.3  | 29.6                 | 32.4  | 27.0                | 29.9  | 25.4              | 27.0  | 87.0                  | 80.1   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 26.2                  | 30.4  |
|         | 25.7                 |       | 31.0                 |       | 28.4                |       | 26.2              |       | 83.6                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 247.0         |       | 164.0                |       | 28.3                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 33.0   |                     | 29.0  |                   | 27.0  |                       | 81.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 3.0   |                       | 31.0  |
| 1       | 24.0                 | 26.0  | 28.0                 | 31.0   | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 5.8   | 2.0                  | 2.8   | 25.0                  | 27.0  |
| 2       | 24.0                 | 26.0  | 28.0                 | 29.0   | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 0.2           | -     | 1.7                  | 2.0   | 24.5                  | 29.0  |
| 3       | 25.0                 | 27.0  | 31.0                 | 32.0   | 27.0                | 31.0  | 25.0              | 27.5  | 84.0                  | 75.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 0.6   | 1.0                  | 2.1   | 25.5                  | 31.0  |
| 4       | 25.0                 | 27.0  | 30.0                 | 33.0   | 27.0                | 28.0  | 25.0              | 27.0  | 84.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 26.0                  | 30.0  |
| 5       | 25.0                 | 27.0  | 28.0                 | 32.0   | 27.0                | 31.0  | 25.0              | 27.0  | 81.0                  | 73.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.8   | 25.0                  | 30.0  |
| 6       | 24.5                 | 27.0  | 28.0                 | 33.0   | 27.0                | 32.0  | 25.0              | 27.0  | 84.0                  | 63.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 6.4   | 2.0                  | 2.4   | 25.5                  | 31.0  |
| 7       | 24.0                 | 25.0  | 31.0                 | 31.0   | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 17.4          | 1.4   | 2.4                  | 1.4   | 24.5                  | 28.5  |
| 8       | 25.0                 | 26.0  | 26.0                 | 30.0   | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.4           | 7.6   | 1.4                  | 1.6   | 25.0                  | 28.0  |
| 9       | 25.0                 | 27.0  | 27.0                 | 31.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 3.4           | -     | 2.4                  | 2.0   | 24.5                  | 28.0  |
| 10      | 25.0                 | 27.0  | 27.0                 | 30.0   | 26.5                | 30.0  | 25.0              | 26.0  | 96.0                  | 72.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 2.0   | 25.0                  | 29.0  |
| 11      | 25.0                 | 27.0  | 28.0                 | 31.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 77.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 3.0   | 24.0                  | 30.0  |
| 12      | 25.0                 | 27.0  | 32.0                 | 32.0   | 27.0                | 31.0  | 26.0              | 29.0  | 92.0                  | 85.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.8   | 25.0                  | 32.0  |
| 13      | 24.0                 | 25.0  | 29.0                 | 34.0   | 26.5                | 28.0  | 24.0              | 25.0  | 96.0                  | 70.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 25.0                  | 32.0  |
| 14      | 25.0                 | 26.0  | 30.0                 | 34.0   | 26.0                | 31.0  | 25.0              | 27.0  | 92.0                  | 72.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.5   | 25.5                  | 30.5  |
| 15      | 25.0                 | 27.0  | 31.0                 | 33.0   | 25.0                | 31.0  | 24.0              | 27.0  | 92.0                  | 72.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 3.0   | 25.0                  | 32.0  |
| 16      | 23.0                 | 24.0  | 31.0                 | 33.0   | 26.0                | 30.0  | 24.0              | 27.0  | 84.0                  | 72.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 2.5   | 25.5                  | 31.5  |
| 17      | 22.0                 | 24.0  | 30.0                 | 34.0   | 26.0                | 30.0  | 24.0              | 27.0  | 84.0                  | 72.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 3.0   | 25.0                  | 31.0  |
| 18      | 20.0                 | 24.0  | 30.0                 | 32.0   | 25.0                | 30.0  | 24.0              | 27.0  | 92.0                  | 72.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 2.0   | 25.0                  | 29.0  |
| 19      | 21.0                 | 23.5  | 31.0                 | 32.0   | 25.0                | 30.0  | 24.0              | 26.5  | 92.0                  | 75.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 2.5   | 25.0                  | 29.0  |
| 20      | 20.5                 | 23.5  | 30.5                 | 31.5   | 25.0                | 30.5  | 24.0              | 26.0  | 92.0                  | 68.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 2.0   | 24.5                  | 29.5  |
| 21      | 23.0                 | 24.0  | 30.0                 | 34.0   | 25.0                | 31.0  | 23.5              | 28.0  | 88.0                  | 78.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 2.0   | 24.0                  | 33.0  |
| 22      | 25.0                 | 26.0  | 32.0                 | 32.0   | 26.0                | 31.0  | 25.0              | 29.0  | 92.0                  | 85.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.5   | 25.0                  | 32.0  |
| 23      | 24.5                 | 27.0  | 31.0                 | 32.0   | 26.0                | 31.0  | 25.0              | 28.0  | 92.0                  | 78.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 3.0   | 25.0                  | 30.5  |
| 24      | 24.0                 | 28.0  | 28.0                 | 33.0   | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 3.0   | 24.5                  | 31.0  |
| 25      | 24.0                 | 28.0  | 28.5                 | 33.0   | 27.0                | 32.0  | 25.0              | 29.0  | 84.0                  | 86.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 2.5   | 23.0                  | 31.5  |
| 26      | 23.5                 | 27.0  | 29.0                 | 35.0   | 26.0                | 30.0  | 25.0              | 29.0  | 92.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 2.0   | 24.0                  | 30.0  |
| 27      | 22.0                 | 23.0  | 31.0                 | 34.0   | 24.0                | 30.0  | 23.0              | 29.0  | 91.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 2.0   | 23.0                  | 30.0  |
| 28      | 21.0                 | 21.5  | 29.0                 | 32.0   | 23.0                | 30.0  | 22.0              | 29.0  | 91.0                  | 93.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 2.0   | 21.5                  | 29.5  |
| 29      | 20.5                 | 23.0  | 32.0                 | 32.0   | 23.0                | 29.0  | 22.0              | 28.0  | 91.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 1.8   | 22.0                  | 25.0  |
| 30      | 20.0                 | 23.5  | 30.0                 | 32.5   | 21.0                | 29.0  | 20.0              | 27.5  | 91.0                  | 88.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.5   | 20.5                  | 28.0  |
| 31      | 21.0                 |       | 29.0                 |        | 22.0                |       | 20.0              |       | 82.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 1.2                  |       | 21.5                  |       |
| Total   | 725.5                | 794.0 | 916.0                | 1001.0 | 794.0               | 926.5 | 748.5             | 842.5 | 2751.0                | 2470.5 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 22.4          | 21.8  | 45.9                 | 72.7  | 754.0                 | 929.5 |
| Average | 23.4                 | 25.6  | 29.5                 | 32.3   | 25.6                | 29.9  | 24.1              | 27.2  | 88.7                  | 79.7   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 24.3                  | 30.0  |
|         | 24.5                 |       | 30.9                 |        | 27.8                |       | 25.7              |       | 84.2                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 44.2          |       | 118.6                |       | 27.2                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 23.0  |                      | 32.0  |                     | 28.0  |                   | 26.0  |                       | 85.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 1.6   |                       | 29.0  |
| 1       | 17.0                 | 21.0  | 26.0                 | 30.0  | 22.0                | 27.0  | 21.0              | 22.0  | 91.0                  | 63.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.2   | 20.5                  | 27.0  |
| 2       | 17.0                 | 21.0  | 28.5                 | 30.0  | 20.0                | 26.0  | 18.0              | 21.0  | 81.0                  | 62.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 1.4   | 19.5                  | 26.0  |
| 3       | 18.0                 | 20.0  | 28.0                 | 30.0  | 21.0                | 26.0  | 18.5              | 20.0  | 98.0                  | 55.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 20.0                  | 25.5  |
| 4       | 15.0                 | 16.0  | 27.5                 | 30.0  | 20.0                | 27.0  | 18.0              | 20.0  | 81.0                  | 50.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 19.0                  | 27.0  |
| 5       | 15.0                 | 19.0  | 28.0                 | 31.0  | 20.0                | 27.0  | 18.0              | 20.0  | 81.0                  | 50.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 1.0   | 18.5                  | 26.0  |
| 6       | 15.0                 | 16.0  | 27.5                 | 31.0  | 20.0                | 28.0  | 18.0              | 21.0  | 81.0                  | 51.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 1.4   | 18.5                  | 26.5  |
| 7       | 15.0                 | 18.0  | 29.0                 | 30.5  | 20.0                | 27.0  | 19.0              | 21.5  | 91.0                  | 59.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.8   | 19.5                  | 27.0  |
| 8       | 15.0                 | 17.0  | 29.0                 | 31.0  | 18.0                | 27.0  | 16.0              | 22.0  | 80.0                  | 63.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 15.0                  | 26.5  |
| 9       | 15.5                 | 17.0  | 29.0                 | 31.5  | 18.0                | 28.0  | 16.0              | 24.0  | 80.0                  | 70.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 15.5                  | 27.0  |
| 10      | 15.5                 | 18.0  | 28.5                 | 31.0  | 17.5                | 29.0  | 16.0              | 24.0  | 95.0                  | 64.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.8   | 15.0                  | 26.5  |
| 11      | 14.0                 | 15.0  | 28.0                 | 29.0  | 17.0                | 25.0  | 16.0              | 19.0  | 90.0                  | 54.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 15.0                  | 24.0  |
| 12      | 12.5                 | 16.0  | 26.5                 | 28.0  | 17.0                | 26.0  | 15.0              | 20.0  | 80.0                  | 55.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.4                  | 1.5   | 16.0                  | 23.5  |
| 13      | 14.0                 | 18.0  | 25.0                 | 31.0  | 18.0                | 27.0  | 16.0              | 20.0  | 79.0                  | 50.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.4                  | 1.2   | 16.5                  | 25.5  |
| 14      | 16.0                 | 19.0  | 28.0                 | 30.0  | 20.0                | 27.0  | 17.5              | 21.0  | 77.0                  | 56.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 18.5                  | 26.0  |
| 15      | 16.0                 | 21.0  | 27.5                 | 28.0  | 19.0                | 26.0  | 17.0              | 20.0  | 81.0                  | 55.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 18.5                  | 25.5  |
| 16      | 18.0                 | 21.0  | 25.0                 | 29.0  | 21.0                | 26.0  | 19.0              | 22.0  | 62.0                  | 69.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 19.0                  | 26.0  |
| 17      | 19.0                 | 21.0  | 27.0                 | 29.0  | 21.5                | 26.0  | 20.5              | 22.0  | 91.0                  | 69.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 20.0                  | 26.0  |
| 18      | 19.0                 | 20.0  | 26.5                 | 28.0  | 21.5                | 27.0  | 20.0              | 23.0  | 86.0                  | 70.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 20.0                  | 26.0  |
| 19      | 18.0                 | 22.0  | 26.0                 | 30.0  | 23.0                | 26.0  | 21.0              | 22.0  | 83.0                  | 69.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.4                  | 1.0   | 20.5                  | 26.0  |
| 20      | 18.5                 | 21.0  | 27.0                 | 29.0  | 23.0                | 28.0  | 21.0              | 23.0  | 83.0                  | 64.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 20.5                  | 27.5  |
| 21      | 17.5                 | 21.0  | 28.0                 | 31.0  | 20.0                | 28.0  | 17.0              | 22.0  | 81.0                  | 57.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.4                  | 1.8   | 20.0                  | 27.0  |
| 22      | 17.0                 | 19.5  | 29.0                 | 30.0  | 19.5                | 26.0  | 18.0              | 21.0  | 86.0                  | 62.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.6   | 20.0                  | 26.0  |
| 23      | 17.0                 | 20.0  | 27.0                 | 29.0  | 17.0                | 26.0  | 16.0              | 21.0  | 90.0                  | 62.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 18.0                  | 26.0  |
| 24      | 16.0                 | 17.0  | 29.0                 | 30.0  | 17.0                | 26.0  | 16.0              | 25.0  | 90.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 18.0                  | 24.5  |
| 25      | 16.0                 | 17.0  | 24.0                 | 28.0  | 17.0                | 24.0  | 16.0              | 17.0  | 90.0                  | 46.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 16.0                  | 23.5  |
| 26      | 12.0                 | 17.5  | 25.0                 | 32.0  | 17.0                | 24.5  | 15.0              | 17.5  | 80.0                  | 46.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.4   | 14.5                  | 22.0  |
| 27      | 11.0                 | 16.0  | 30.0                 | 31.0  | 16.0                | 22.5  | 14.0              | 18.0  | 79.0                  | 62.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 15.0                  | 21.5  |
| 28      | 12.0                 | 16.0  | 24.0                 | 31.0  | 17.0                | 23.0  | 16.0              | 19.0  | 79.0                  | 67.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 1.4   | 14.5                  | 21.0  |
| 29      | 12.0                 | 15.5  | 26.0                 | 30.5  | 16.5                | 22.0  | 14.0              | 18.5  | 74.5                  | 70.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.6   | 16.0                  | 22.0  |
| 30      | 11.0                 |       | 26.5                 |       | 16.0                |       | 15.0              |       | 89.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 1.0                  |       | 15.0                  |       |
| Total   | 464.5                | 559.5 | 816.0                | 901.5 | 570.5               | 786.0 | 518.5             | 632.5 | 2509.5                | 1847.5 | .. *                      | .. *  | .. *                    | .. *  |                         |       | -             | -     | 34.8                 | 43.1  | 532.5                 | 763.5 |
| Average | 15.5                 | 18.7  | 27.2                 | 30.1  | 19.0                | 26.2  | 17.3              | 21.1  | 83.7                  | 61.6   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 17.8                  | 25.5  |
|         | 17.1                 |       | 28.6                 |       | 22.6                |       | 19.2              |       | 72.6                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 0.0           |       | 77.9                 |       | 21.6                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 15.5  |                      | 30.0  |                     | 22.5  |                   | 18.0  |                       | 66.5   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 1.6   |                       | 21.5  |
| 1       | 12.0                 | 16.0  | 29.0                 | 31.0  | 18.0                | 23.0  | 17.0              | 18.0  | 90.0                  | 59.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 16.0                  | 21.0  |
| 2       | 12.5                 | 13.5  | 27.0                 | 29.0  | 18.0                | 25.0  | 17.0              | 18.0  | 90.0                  | 47.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 15.5                  | 22.0  |
| 3       | 11.0                 | 14.0  | 27.0                 | 28.0  | 14.0                | 24.0  | 13.0              | 17.0  | 89.0                  | 46.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.8   | 13.5                  | 22.0  |
| 4       | 11.0                 | 13.5  | 24.0                 | 28.0  | 15.0                | 24.0  | 13.0              | 18.0  | 78.0                  | 53.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.4                  | 1.2   | 13.5                  | 22.0  |
| 5       | 11.5                 | 16.0  | 24.0                 | 29.0  | 16.0                | 25.0  | 14.0              | 18.0  | 79.0                  | 47.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.4                  | 1.4   | 14.5                  | 22.5  |
| 6       | 13.0                 | 16.0  | 24.0                 | 30.0  | 17.0                | 24.0  | 15.0              | 18.0  | 80.0                  | 53.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 14.0                  | 22.0  |
| 7       | 14.0                 | 16.0  | 27.0                 | 30.0  | 14.0                | 25.0  | 13.0              | 17.0  | 89.0                  | 41.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 15.0                  | 23.0  |
| 8       | 13.5                 | 15.5  | 26.5                 | 30.5  | 14.0                | 24.5  | 13.0              | 17.5  | 89.0                  | 46.5   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.6   | 15.5                  | 22.5  |
| 9       | 13.0                 | 14.0  | 26.0                 | 29.0  | 15.0                | 25.0  | 14.5              | 17.5  | 94.0                  | 44.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.6   | 15.0                  | 21.0  |
| 10      | 11.5                 | 14.0  | 26.0                 | 29.5  | 16.0                | 25.0  | 14.0              | 18.0  | 79.0                  | 47.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 14.5                  | 21.5  |
| 11      | 11.0                 | 12.0  | 24.0                 | 30.0  | 16.0                | 25.0  | 14.0              | 17.0  | 79.0                  | 41.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.0  |
| 12      | 10.5                 | 14.5  | 30.0                 | 32.0  | 15.0                | 26.0  | 14.0              | 19.5  | 89.0                  | 52.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.5  |
| 13      | 13.0                 | 16.0  | 27.5                 | 31.0  | 16.0                | 27.0  | 15.0              | 22.0  | 89.0                  | 63.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 15.0                  | 24.0  |
| 14      | 12.0                 | 17.0  | 29.0                 | 31.0  | 17.0                | 28.0  | 16.0              | 20.0  | 90.0                  | 45.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 15.0                  | 24.5  |
| 15      | 13.0                 | 17.0  | 29.0                 | 32.0  | 15.0                | 27.5  | 14.0              | 19.5  | 89.0                  | 44.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 14.0                  | 23.5  |
| 16      | 13.0                 | 16.0  | 30.0                 | 31.0  | 14.0                | 26.0  | 12.0              | 25.0  | 78.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 14.0                  | 24.0  |
| 17      | 15.0                 | 15.5  | 28.0                 | 30.0  | 16.0                | 26.0  | 15.0              | 25.0  | 89.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 16.0                  | 24.0  |
| 18      | 12.0                 | 14.0  | 27.5                 | 30.0  | 15.0                | 24.0  | 14.0              | 16.0  | 89.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 15.5                  | 22.0  |
| 19      | 9.5                  | 13.0  | 23.5                 | 29.0  | 14.0                | 24.0  | 12.0              | 21.0  | 78.0                  | 75.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 12.0                  | 22.0  |
| 20      | 10.0                 | 12.0  | 24.0                 | 31.0  | 12.5                | 25.0  | 12.0              | 23.0  | 94.0                  | 84.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.5                  | 1.4   | 12.0                  | 22.0  |
| 21      | 10.5                 | 14.0  | 24.0                 | 30.0  | 15.5                | 25.0  | 14.5              | 18.5  | 89.0                  | 51.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 1.0   | 13.5                  | 22.0  |
| 22      | 11.5                 | 14.5  | 25.0                 | 29.5  | 15.0                | 26.0  | 14.0              | 25.0  | 89.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 14.5                  | 22.5  |
| 23      | 11.0                 | 13.5  | 27.0                 | 29.0  | 14.5                | 25.0  | 14.0              | 24.0  | 94.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 0.8   | 14.0                  | 22.0  |
| 24      | 10.5                 | 12.5  | 24.0                 | 30.0  | 13.0                | 25.0  | 12.0              | 23.0  | 88.0                  | 84.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.0   | 13.0                  | 22.5  |
| 25      | 11.0                 | 14.0  | 25.0                 | 31.0  | 15.0                | 26.5  | 14.0              | 26.0  | 89.0                  | 96.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 0.8   | 13.5                  | 23.0  |
| 26      | 10.0                 | 13.0  | 27.0                 | 29.5  | 14.0                | 24.0  | 13.0              | 21.5  | 89.0                  | 79.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 14.0                  | 22.0  |
| 27      | 8.0                  | 12.0  | 22.0                 | 29.0  | 12.0                | 24.0  | 11.0              | 18.0  | 88.0                  | 53.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 12.0                  | 21.0  |
| 28      | 8.0                  | 10.5  | 24.0                 | 29.5  | 10.0                | 25.0  | 9.0               | 17.0  | 87.0                  | 41.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 11.0                  | 20.0  |
| 29      | 8.0                  | 10.0  | 24.0                 | 29.5  | 11.0                | 24.5  | 10.0              | 18.0  | 87.0                  | 49.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.2   | 11.0                  | 20.5  |
| 30      | 8.0                  | 11.0  | 23.0                 | 29.0  | 11.0                | 24.0  | 10.0              | 17.0  | 87.0                  | 46.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 11.0                  | 21.0  |
| 31      | 8.0                  |       | 23.0                 |       | 12.0                |       | 10.5              |       | 82.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 0.8                  |       | 11.5                  |       |
| Total   | 346.5                | 436.0 | 801.0                | 927.0 | 450.5               | 774.5 | 413.5             | 611.0 | 2690.0                | 1860.0 | .. *                      | .. *  | .. *                    | .. *  |                         |       | -             | -     | 32.5                 | 37.4  | 427.5                 | 690.0 |
| Average | 11.2                 | 14.1  | 25.8                 | 29.9  | 14.5                | 25.0  | 13.3              | 19.7  | 86.8                  | 60.0   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 13.8                  | 22.3  |
|         | 12.6                 |       | 27.9                 |       | 19.8                |       | 16.5              |       | 73.4                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 0.0           |       | 69.9                 |       | 18.0                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 11.0  |                      | 29.0  |                     | 24.0  |                   | 17.0  |                       | 46.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 1.0   |                       | 21.0  |
| 1       | 9.0                  | 13.0  | 17.0                 | 30.0  | 14.0                | 24.0  | 13.0              | 17.0  | 89.0                  | 46.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.0   | 13.0                  | 21.5  |
| 2       | 12.0                 | 13.5  | 28.5                 | 30.0  | 14.0                | 24.0  | 12.0              | 17.0  | 78.0                  | 46.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 0.8   | 13.5                  | 21.5  |
| 3       | 12.0                 | 14.0  | 24.0                 | 29.0  | 15.0                | 24.0  | 13.0              | 18.0  | 78.0                  | 53.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 13.5                  | 21.0  |
| 4       | 10.0                 | 13.0  | 27.0                 | 29.0  | 12.0                | 24.0  | 11.0              | 18.0  | 88.0                  | 53.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 12.0                  | 20.0  |
| 5       | 8.0                  | 14.0  | 28.0                 | 29.5  | 11.0                | 22.0  | 10.0              | 18.0  | 87.0                  | 50.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 11.0                  | 21.0  |
| 6       | 10.0                 | 12.0  | 22.0                 | 29.5  | 13.5                | 25.0  | 11.0              | 17.0  | 60.0                  | 41.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 0.8   | 12.5                  | 21.5  |
| 7       | 11.0                 | 13.0  | 24.0                 | 28.5  | 14.0                | 23.0  | 12.0              | 17.0  | 78.0                  | 52.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 0.8   | 12.5                  | 21.0  |
| 8       | 9.0                  | 10.0  | 23.5                 | 29.0  | 11.0                | 24.0  | 10.0              | 16.0  | 87.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 12.0                  | 20.5  |
| 9       | 9.0                  | 12.0  | 23.5                 | 28.5  | 12.0                | 23.0  | 10.0              | 17.0  | 76.0                  | 52.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 0.8   | 12.0                  | 20.0  |
| 10      | 9.0                  | 12.0  | 23.5                 | 29.5  | 12.0                | 22.5  | 10.5              | 17.0  | 82.0                  | 54.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 12.0                  | 20.0  |
| 11      | 10.0                 | 11.5  | 28.0                 | 29.0  | 11.0                | 26.0  | 10.0              | 17.0  | 87.0                  | 36.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 11.5                  | 20.5  |
| 12      | 11.0                 | 12.5  | 27.0                 | 31.5  | 13.0                | 26.0  | 11.0              | 17.0  | 77.0                  | 36.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 12.0                  | 22.0  |
| 13      | 11.5                 | 14.5  | 25.0                 | 31.5  | 14.0                | 26.0  | 12.0              | 17.5  | 78.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 0.8   | 14.0                  | 22.0  |
| 14      | 12.5                 | 14.5  | 31.0                 | 32.0  | 16.0                | 27.0  | 14.0              | 18.0  | 79.0                  | 38.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 14.5                  | 23.0  |
| 15      | 12.0                 | 15.5  | 28.0                 | 32.0  | 17.0                | 25.0  | 15.0              | 18.0  | 80.0                  | 47.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.0   | 15.0                  | 22.0  |
| 16      | 10.0                 | 12.0  | 25.0                 | 31.0  | 12.0                | 24.0  | 10.5              | 16.0  | 82.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.2   | 13.0                  | 22.0  |
| 17      | 10.0                 | 15.0  | 24.0                 | 32.0  | 14.0                | 25.0  | 12.0              | 17.0  | 78.0                  | 41.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 13.0                  | 23.0  |
| 18      | 12.0                 | 14.5  | 25.0                 | 30.5  | 14.0                | 25.0  | 12.0              | 16.0  | 78.0                  | 35.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 14.0                  | 22.0  |
| 19      | 10.0                 | 10.5  | 24.0                 | 31.0  | 14.0                | 23.0  | 10.0              | 16.0  | 57.0                  | 32.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 12.0                  | 21.5  |
| 20      | 9.0                  | 13.5  | 23.5                 | 31.5  | 14.0                | 25.0  | 12.0              | 17.0  | 78.0                  | 41.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 12.0                  | 22.0  |
| 21      | 11.0                 | 11.5  | 24.0                 | 31.5  | 13.0                | 26.0  | 11.5              | 17.5  | 83.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.9                  | 1.2   | 12.5                  | 22.0  |
| 22      | 10.5                 | 13.0  | 25.0                 | 31.5  | 14.0                | 25.0  | 12.0              | 17.0  | 78.0                  | 41.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.2   | 13.5                  | 22.5  |
| 23      | 10.0                 | 13.5  | 25.0                 | 31.0  | 14.5                | 26.0  | 13.0              | 18.0  | 83.5                  | 42.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.4   | 14.5                  | 23.0  |
| 24      | 14.0                 | 16.5  | 26.0                 | 30.0  | 17.0                | 27.0  | 15.0              | 18.0  | 80.0                  | 38.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 15.5                  | 23.0  |
| 25      | 11.0                 | 11.5  | 27.0                 | 30.0  | 16.0                | 25.0  | 12.0              | 16.0  | 59.0                  | 35.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.4   | 14.0                  | 23.0  |
| 26      | 8.0                  | 11.0  | 24.0                 | 30.5  | 11.5                | 24.0  | 10.0              | 16.0  | 81.5                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.5   | 13.5                  | 22.0  |
| 27      | 8.0                  | 11.5  | 24.0                 | 30.5  | 10.0                | 23.5  | 9.0               | 16.0  | 87.0                  | 42.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 12.0                  | 22.5  |
| 28      | 9.0                  | 12.0  | 23.5                 | 31.5  | 14.0                | 26.0  | 12.0              | 16.0  | 78.0                  | 30.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 13.5                  | 22.0  |
| 29      | 9.5                  | 13.0  | 24.5                 | 31.5  | 14.5                | 25.0  | 13.0              | 15.0  | 94.0                  | 28.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.8   | 13.0                  | 22.0  |
| 30      | 9.0                  | 14.0  | 24.5                 | 31.5  | 14.0                | 25.0  | 13.5              | 15.0  | 94.0                  | 28.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 13.5                  | 22.5  |
| 31      | 10.0                 |       | 25.0                 |       | 14.0                |       | 13.5              |       | 94.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 1.0                  |       | 13.5                  |       |
| Total   | 317.0                | 399.0 | 774.0                | 943.0 | 420.0               | 764.0 | 365.5             | 523.0 | 2489.0                | 1278.0 | .. *                      | .. *  | .. *                    | .. *  |                         |       | -             | -     | 29.9                 | 35.1  | 404.0                 | 673.5 |
| Average | 10.2                 | 12.9  | 25.0                 | 30.4  | 13.5                | 24.6  | 11.8              | 16.9  | 80.3                  | 41.2   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 13.0                  | 21.7  |
|         | 11.5                 |       | 27.7                 |       | 19.1                |       | 14.3              |       | 60.8                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 0.0           |       | 65.0                 |       | 17.4                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 14.0  |                      | 31.5  |                     | 25.0  |                   | 15.5  |                       | 30.0   |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 1.8   |                       | 23.0  |
| 1       | 12.5                 | 14.5  | 23.0                 | 33.0  | 14.5                | 28.0  | 12.5              | 18.0  | 78.0                  | 33.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 1.8   | 13.5                  | 24.0  |
| 2       | 12.0                 | 16.0  | 28.0                 | 35.0  | 16.0                | 28.0  | 12.5              | 18.0  | 64.0                  | 33.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 2.0   | 14.5                  | 25.0  |
| 3       | 12.0                 | 14.5  | 28.0                 | 35.0  | 14.5                | 28.5  | 11.0              | 19.0  | 62.0                  | 36.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 2.0   | 13.0                  | 25.0  |
| 4       | 12.0                 | 15.0  | 27.5                 | 35.0  | 15.0                | 29.0  | 12.0              | 20.0  | 68.0                  | 40.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 2.0   | 13.0                  | 24.5  |
| 5       | 12.5                 | 16.0  | 28.0                 | 33.0  | 17.0                | 28.0  | 14.0              | 20.0  | 70.0                  | 45.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 2.0   | 14.5                  | 25.5  |
| 6       | 15.5                 | 20.0  | 29.0                 | 35.0  | 21.0                | 29.0  | 17.0              | 28.0  | 65.0                  | 92.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.2                  | 2.0   | 17.0                  | 26.0  |
| 7       | 14.0                 | 16.5  | 30.0                 | 34.5  | 19.0                | 24.0  | 18.5              | 23.0  | 95.0                  | 91.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 1.4   | 17.5                  | 21.0  |
| 8       | 11.0                 | 16.0  | 24.0                 | 32.0  | 17.0                | 29.0  | 16.0              | 20.0  | 90.0                  | 43.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.8   | 14.0                  | 20.0  |
| 9       | 15.5                 | 16.0  | 29.0                 | 32.5  | 16.0                | 29.0  | 14.0              | 18.0  | 79.0                  | 29.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 13.0                  | 24.0  |
| 10      | 15.5                 | 16.0  | 30.0                 | 31.0  | 14.0                | 27.0  | 12.0              | 19.0  | 78.0                  | 44.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 1.8   | 17.0                  | 23.5  |
| 11      | 15.5                 | 16.0  | 28.0                 | 32.0  | 18.0                | 28.0  | 13.5              | 16.0  | 57.0                  | 80.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 14.0  | 1.6                  | 2.0   | 16.5                  | 20.5  |
| 12      | 15.0                 | 17.0  | 17.0                 | 27.5  | 18.0                | 25.0  | 16.0              | 19.0  | 80.0                  | 54.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.8                  | 1.8   | 15.0                  | 23.0  |
| 13      | 16.5                 | 17.0  | 24.0                 | 25.0  | 17.5                | 23.0  | 11.5              | 20.0  | 44.0                  | 75.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 11.8          | 0.8   | 1.8                  | 1.6   | 16.5                  | 21.0  |
| 14      | 14.5                 | 17.5  | 23.0                 | 26.0  | 17.0                | 22.5  | 16.0              | 20.0  | 40.0                  | 87.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | 6.8           | -     | 2.6                  | 0.8   | 14.5                  | 22.0  |
| 15      | 12.0                 | 17.0  | 26.0                 | 28.0  | 16.0                | 23.0  | 14.0              | 20.0  | 79.0                  | 75.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 13.0                  | 23.0  |
| 16      | 12.0                 | 17.0  | 29.0                 | 30.0  | 13.0                | 25.5  | 12.0              | 18.0  | 88.0                  | 44.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.0   | 14.0                  | 22.0  |
| 17      | 13.0                 | 17.0  | 24.0                 | 29.0  | 16.0                | 24.0  | 13.0              | 19.0  | 69.0                  | 60.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 0.8                  | 1.2   | 14.0                  | 22.0  |
| 18      | 13.0                 | 15.0  | 26.0                 | 31.0  | 16.0                | 28.0  | 14.0              | 21.0  | 79.0                  | 51.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.4   | 15.0                  | 23.0  |
| 19      | 15.0                 | 16.5  | 29.0                 | 33.0  | 17.0                | 30.0  | 15.0              | 21.0  | 80.0                  | 42.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.6   | 16.0                  | 24.0  |
| 20      | 12.0                 | 17.0  | 31.0                 | 33.0  | 18.0                | 28.0  | 16.0              | 20.0  | 80.0                  | 45.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.0                  | 1.8   | 15.0                  | 26.5  |
| 21      | 16.0                 | 17.0  | 29.0                 | 33.0  | 18.0                | 29.0  | 17.0              | 18.5  | 90.0                  | 32.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 2.0   | 17.5                  | 26.0  |
| 22      | 15.0                 | 16.5  | 29.0                 | 35.5  | 18.0                | 30.0  | 15.5              | 19.0  | 76.0                  | 31.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 2.0   | 16.0                  | 27.0  |
| 23      | 15.0                 | 18.0  | 30.5                 | 36.0  | 20.0                | 30.0  | 16.0              | 21.0  | 64.0                  | 42.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 1.6                  | 2.4   | 17.0                  | 27.5  |
| 24      | 17.0                 | 18.0  | 31.0                 | 37.0  | 22.0                | 32.0  | 17.5              | 21.0  | 62.0                  | 34.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.4   | 18.0                  | 28.0  |
| 25      | 17.0                 | 17.0  | 36.5                 | 37.0  | 21.0                | 32.0  | 18.0              | 22.0  | 73.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.6   | 19.0                  | 29.0  |
| 26      | 18.0                 | 21.0  | 32.0                 | 36.0  | 22.0                | 32.0  | 18.5              | 22.0  | 70.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.4   | 19.5                  | 28.5  |
| 27      | 16.0                 | 19.0  | 33.0                 | 36.0  | 21.0                | 30.0  | 17.0              | 20.5  | 65.0                  | 39.0   | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.4   | 18.5                  | 28.0  |
| 28      | 15.0                 |       | 30.0                 |       | 22.0                |       | 17.0              |       | 58.0                  |        | ..                        |       | ..                      |       | ..                      |       | -             |       | 2.0                  |       | 18.0                  |       |
| Total   | 400.0                | 468.0 | 784.5                | 912.5 | 494.5               | 776.5 | 417.0             | 556.5 | 2003.0                | 1385.0 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 18.6          | 14.8  | 40.8                 | 50.6  | 440.0                 | 682.5 |
| Average | 14.3                 | 16.7  | 28.0                 | 32.6  | 17.7                | 27.7  | 14.9              | 19.9  | 71.5                  | 49.5   | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 15.7                  | 24.4  |
|         | 15.5                 |       | 30.3                 |       | 22.7                |       | 17.4              |       | 60.5                  |        | 0.0 *                     |       | 0.0 *                   |       |                         |       | 33.4          |       | 91.4                 |       | 20.0                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 20.0  |                      | 35.0   |                     | 31.0   |                   | 21.0  |                       | 37.0  |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 2.6   |                       | 28.0  |
| 1       | 16.0                 | 20.0  | 30.0                 | 36.0   | 21.0                | 30.0   | 17.0              | 21.0  | 65.0                  | 42.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.4   | 18.0                  | 28.0  |
| 2       | 17.0                 | 19.0  | 31.0                 | 36.0   | 20.0                | 31.0   | 17.5              | 20.0  | 77.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.2                  | 2.6   | 18.5                  | 27.5  |
| 3       | 19.0                 | 23.0  | 32.5                 | 38.0   | 24.0                | 34.0   | 18.0              | 21.0  | 53.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.2                  | 2.6   | 19.5                  | 27.5  |
| 4       | 20.0                 | 23.0  | 35.0                 | 37.0   | 24.0                | 33.0   | 19.0              | 22.0  | 60.0                  | 35.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.4   | 19.5                  | 26.5  |
| 5       | 20.0                 | 21.0  | 34.0                 | 36.0   | 22.0                | 32.0   | 18.0              | 19.0  | 66.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.4   | 18.0                  | 26.5  |
| 6       | 18.5                 | 20.0  | 33.0                 | 35.0   | 20.0                | 31.0   | 18.0              | 21.0  | 81.0                  | 40.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.6   | 19.0                  | 26.0  |
| 7       | 18.0                 | 20.0  | 32.0                 | 35.0   | 21.0                | 31.5   | 17.5              | 21.5  | 69.0                  | 42.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.2                  | 2.8   | 19.0                  | 26.0  |
| 8       | 19.0                 | 21.0  | 34.0                 | 35.0   | 21.0                | 32.0   | 16.0              | 20.0  | 57.0                  | 29.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.6   | 19.0                  | 26.0  |
| 9       | 19.0                 | 22.0  | 33.0                 | 36.0   | 22.0                | 31.0   | 16.0              | 20.0  | 50.0                  | 32.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.0   | 18.5                  | 28.0  |
| 10      | 17.5                 | 21.0  | 32.0                 | 37.0   | 22.0                | 33.0   | 18.0              | 20.0  | 66.0                  | 25.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.6   | 20.0                  | 25.5  |
| 11      | 22.5                 | 23.0  | 32.0                 | 36.0   | 24.0                | 32.0   | 18.0              | 21.0  | 53.0                  | 34.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.2   | 20.0                  | 27.0  |
| 12      | 20.0                 | 23.0  | 32.5                 | 36.0   | 25.0                | 34.0   | 19.0              | 21.0  | 54.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.0   | 20.0                  | 28.0  |
| 13      | 21.0                 | 22.0  | 33.0                 | 38.0   | 24.0                | 35.0   | 19.0              | 21.0  | 60.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.4                  | 3.2   | 21.0                  | 28.0  |
| 14      | 18.0                 | 22.0  | 34.0                 | 39.0   | 22.0                | 34.0   | 17.0              | 22.0  | 58.0                  | 32.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.6                  | 3.4   | 21.0                  | 29.0  |
| 15      | 22.0                 | 23.0  | 34.0                 | 39.0   | 24.0                | 35.0   | 19.0              | 22.0  | 60.0                  | 28.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 1.6   | 20.0                  | 20.5  |
| 16      | 21.0                 | 21.0  | 35.0                 | 38.0   | 23.0                | 36.0   | 18.0              | 19.0  | 59.0                  | 82.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 2.8   | 1.6                  | 2.4   | 17.5                  | 26.5  |
| 17      | 18.0                 | 20.5  | 32.5                 | 35.0   | 21.0                | 30.0   | 19.0              | 22.0  | 82.0                  | 47.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | 0.4           | -     | 2.0                  | 2.6   | 20.0                  | 28.0  |
| 18      | 19.0                 | 23.0  | 31.5                 | 36.0   | 24.0                | 38.0   | 20.0              | 20.0  | 68.0                  | 29.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.6   | 19.5                  | 28.0  |
| 19      | 19.0                 | 21.0  | 33.0                 | 38.0   | 23.0                | 33.0   | 16.0              | 18.0  | 45.0                  | 17.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 2.8   | 19.0                  | 29.0  |
| 20      | 18.0                 | 21.0  | 34.0                 | 38.0   | 22.0                | 35.0   | 17.0              | 21.0  | 45.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.2   | 20.5                  | 30.0  |
| 21      | 20.0                 | 23.0  | 33.0                 | 37.5   | 24.0                | 36.0   | 19.0              | 23.0  | 60.0                  | 30.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.8   | 20.0                  | 30.0  |
| 22      | 21.0                 | 22.0  | 36.0                 | 39.0   | 22.0                | 36.0   | 18.0              | 20.0  | 66.0                  | 18.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.6   | 21.0                  | 28.0  |
| 23      | 20.0                 | 21.0  | 36.0                 | 38.0   | 21.5                | 35.0   | 17.0              | 24.0  | 61.0                  | 93.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.4                  | 3.8   | 20.0                  | 29.0  |
| 24      | 19.0                 | 23.0  | 36.0                 | 39.0   | 24.0                | 36.0   | 17.0              | 21.0  | 46.0                  | 22.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 3.8   | 20.0                  | 29.0  |
| 25      | 19.5                 | 24.5  | 36.0                 | 38.5   | 24.0                | 35.0   | 18.0              | 19.0  | 53.0                  | 24.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.4                  | 4.0   | 19.0                  | 29.0  |
| 26      | 19.5                 | 22.0  | 36.0                 | 38.0   | 23.0                | 35.0   | 16.0              | 19.0  | 45.0                  | 16.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 4.0   | 19.0                  | 30.0  |
| 27      | 17.0                 | 23.0  | 36.0                 | 38.0   | 24.0                | 35.0   | 18.0              | 20.0  | 53.0                  | 20.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 4.0   | 19.0                  | 31.0  |
| 28      | 18.0                 | 21.0  | 37.0                 | 39.0   | 22.0                | 37.0   | 16.0              | 22.0  | 50.0                  | 23.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.2                  | 4.2   | 20.0                  | 30.0  |
| 29      | 21.0                 | 22.0  | 38.0                 | 39.0   | 22.0                | 36.0   | 19.0              | 21.0  | 74.0                  | 22.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.4                  | 4.4   | 20.0                  | 30.0  |
| 30      | 20.0                 | 21.0  | 37.0                 | 40.0   | 23.0                | 36.5   | 18.0              | 20.0  | 59.0                  | 18.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.2                  | 4.2   | 20.0                  | 31.0  |
| 31      | 19.0                 |       | 37.0                 |        | 22.0                |        | 19.0              |       | 74.0                  |       | ..                        |       | ..                      |       | ..                      |       | -             |       | 2.2                  |       | 19.0                  |       |
| Total   | 596.5                | 672.0 | 1056.0               | 1155.0 | 700.5               | 1049.0 | 552.0             | 642.5 | 1869.0                | 995.5 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 0.4           | 2.8   | 65.0                 | 95.4  | 604.5                 | 866.5 |
| Average | 19.2                 | 21.7  | 34.1                 | 37.3   | 22.6                | 33.8   | 17.8              | 20.7  | 60.3                  | 32.1  | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 19.5                  | 28.0  |
|         | 20.5                 |       | 35.7                 |        | 28.2                |        | 19.3              |       | 46.2                  |       | 0.0 *                     |       | 0.0 *                   |       |                         |       | 3.2           |       | 160.4                |       | 23.7                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 21.0  |                      | 40.0   |                     | 36.0   |                   | 20.0  |                       | 18.0  |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 4.2   |                       | 28.0  |
| 1       | 22.0                 | 26.0  | 37.0                 | 40.0   | 27.0                | 36.0   | 20.0              | 21.0  | 50.0                  | 22.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.6                  | 3.2   | 20.5                  | 29.0  |
| 2       | 19.0                 | 22.5  | 37.0                 | 37.0   | 22.0                | 35.0   | 17.0              | 22.0  | 58.0                  | 28.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 3.2   | 18.0                  | 29.5  |
| 3       | 21.0                 | 22.0  | 36.0                 | 39.0   | 27.0                | 36.0   | 19.0              | 22.0  | 44.0                  | 26.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.4                  | 3.6   | 20.5                  | 30.0  |
| 4       | 22.0                 | 23.0  | 38.0                 | 40.0   | 26.0                | 36.0   | 19.0              | 23.0  | 49.0                  | 30.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.2                  | 4.0   | 21.0                  | 29.5  |
| 5       | 23.0                 | 26.0  | 39.0                 | 39.0   | 27.0                | 38.0   | 20.0              | 23.0  | 50.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.4                  | 4.0   | 21.0                  | 30.0  |
| 6       | 23.0                 | 27.5  | 39.0                 | 40.0   | 27.0                | 35.0   | 21.0              | 22.0  | 56.0                  | 31.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.2                  | 4.2   | 21.5                  | 30.5  |
| 7       | 24.0                 | 24.5  | 37.0                 | 37.0   | 28.0                | 34.0   | 21.0              | 27.0  | 92.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 4.0   | 21.0                  | 26.5  |
| 8       | 23.5                 | 26.0  | 36.0                 | 37.0   | 27.0                | 34.0   | 20.0              | 20.5  | 50.0                  | 25.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 3.8   | 20.5                  | 27.5  |
| 9       | 24.0                 | 26.0  | 32.5                 | 39.0   | 27.0                | 36.0   | 21.0              | 21.0  | 56.0                  | 22.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 4.0   | 22.0                  | 29.5  |
| 10      | 23.0                 | 25.0  | 36.0                 | 39.0   | 27.0                | 36.0   | 19.5              | 20.0  | 53.0                  | 18.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.2                  | 4.0   | 22.0                  | 29.5  |
| 11      | 25.0                 | 28.0  | 37.0                 | 39.0   | 29.0                | 38.0   | 21.0              | 22.0  | 46.0                  | 20.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 4.4   | 22.0                  | 30.0  |
| 12      | 25.0                 | 28.0  | 37.0                 | 38.0   | 28.0                | 35.0   | 20.0              | 22.0  | 45.0                  | 28.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 4.2   | 21.0                  | 30.0  |
| 13      | 25.0                 | 29.0  | 35.0                 | 39.0   | 30.0                | 34.0   | 21.0              | 23.0  | 42.0                  | 36.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.4                  | 4.0   | 22.0                  | 30.0  |
| 14      | 23.0                 | 24.0  | 33.0                 | 39.0   | 25.0                | 34.0   | 24.0              | 24.0  | 92.0                  | 41.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.6           | -     | 3.6                  | 3.6   | 20.5                  | 29.5  |
| 15      | 21.0                 | 26.0  | 36.0                 | 39.0   | 26.0                | 36.0   | 22.0              | 35.0  | 69.0                  | 93.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | 1.6           | -     | 3.0                  | 4.8   | 21.5                  | 31.0  |
| 16      | 22.0                 | 25.0  | 37.0                 | 39.0   | 26.0                | 37.0   | 25.0              | 35.0  | 92.0                  | 87.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | 4.4           | -     | 2.4                  | 4.0   | 21.0                  | 30.5  |
| 17      | 26.0                 | 29.0  | 36.0                 | 40.0   | 30.0                | 39.0   | 28.0              | 29.0  | 93.0                  | 41.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.4                  | 6.0   | 24.5                  | 31.0  |
| 18      | 26.0                 | 32.0  | 39.0                 | 42.0   | 32.0                | 40.0   | 23.0              | 31.0  | 93.0                  | 20.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.4                  | 6.2   | 25.0                  | 32.0  |
| 19      | 25.0                 | 30.0  | 40.0                 | 41.0   | 31.0                | 39.0   | 22.0              | 23.0  | 48.0                  | 18.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 6.2   | 25.0                  | 30.0  |
| 20      | 25.0                 | 29.0  | 39.0                 | 43.0   | 26.0                | 39.0   | 20.0              | 21.0  | 55.0                  | 13.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 6.0   | 26.0                  | 30.0  |
| 21      | 27.0                 | 32.0  | 40.0                 | 43.0   | 33.0                | 39.0   | 21.0              | 24.0  | 45.0                  | 13.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.4                  | 7.0   | 24.5                  | 29.5  |
| 22      | 24.0                 | 30.0  | 39.0                 | 42.0   | 31.0                | 39.0   | 21.0              | 22.0  | 37.5                  | 18.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 6.0   | 24.0                  | 31.0  |
| 23      | 26.0                 | 30.0  | 40.0                 | 40.0   | 31.0                | 39.0   | 19.0              | 22.0  | 22.5                  | 18.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.8                  | 6.0   | 23.0                  | 31.0  |
| 24      | 24.0                 | 24.0  | 39.0                 | 41.0   | 29.0                | 39.0   | 19.0              | 21.0  | 35.0                  | 13.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 5.0   | 21.5                  | 30.0  |
| 25      | 21.0                 | 29.0  | 39.0                 | 41.0   | 29.0                | 39.0   | 21.0              | 21.0  | 46.0                  | 13.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.6                  | 6.2   | 21.0                  | 31.0  |
| 26      | 23.0                 | 26.0  | 40.0                 | 42.0   | 27.0                | 35.0   | 20.0              | 20.0  | 50.0                  | 19.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.8                  | 6.0   | 21.0                  | 29.0  |
| 27      | 22.0                 | 24.5  | 35.0                 | 42.0   | 25.0                | 39.0   | 19.0              | 23.0  | 54.0                  | 21.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.6                  | 6.0   | 20.0                  | 30.0  |
| 28      | 27.0                 | 28.0  | 40.0                 | 43.0   | 32.0                | 40.0   | 24.0              | 26.0  | 49.0                  | 30.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 6.4   | 23.0                  | 32.0  |
| 29      | 28.0                 | 30.0  | 41.0                 | 43.0   | 32.0                | 39.0   | 25.0              | 26.5  | 55.0                  | 37.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.2                  | 6.2   | 23.5                  | 31.0  |
| 30      | 28.0                 |       | 42.0                 |        | 32.0                |        | 26.0              |       | 67.0                  |       | ..                        |       | ..                      |       | ..                      |       | -             |       | 3.0                  |       | 23.0                  |       |
| Total   | 717.5                | 803.0 | 1131.5               | 1203.0 | 849.0               | 1111.0 | 638.5             | 712.0 | 1694.0                | 855.5 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 7.6           | -     | 94.6                 | 146.4 | 661.0                 | 898.0 |
| Average | 23.9                 | 26.8  | 37.7                 | 40.1   | 28.3                | 37.0   | 21.3              | 23.7  | 56.5                  | 28.5  | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 22.0                  | 29.9  |
|         | 25.3                 |       | 38.9                 |        | 32.7                |        | 22.5              |       | 42.5                  |       | 0.0 *                     |       | 0.0 *                   |       |                         |       | 7.6           |       | 241.0                |       | 26.0                  |       |

## Twice Daily Climatic Data

Station Code : 164

Local River/Basin : Tandula

Station Name : Gunderdehi

Sub-Division : UMSD,Raipur

- 0.0 N.A.

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 31.0  |                      | 43.0   |                     | 39.5   |                   | 27.5  |                       | 37.0  |                           | ..    |                         | ..    |                         | ..    |               | -     |                      | 6.0   |                       | 31.0   |
| 1       | 28.0                 | 30.0  | 41.0                 | 42.0   | 30.0                | 37.0   | 23.0              | 25.0  | 53.0                  | 35.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 4.8   | 23.0                  | 31.0   |
| 2       | 25.0                 | 27.0  | 37.0                 | 40.0   | 27.0                | 39.0   | 22.0              | 24.0  | 63.0                  | 25.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 4.4   | 22.0                  | 31.0   |
| 3       | 27.0                 | 28.0  | 37.0                 | 39.0   | 28.0                | 36.0   | 21.0              | 23.0  | 51.0                  | 43.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.8                  | 4.0   | 21.5                  | 30.0   |
| 4       | 25.0                 | 26.0  | 37.0                 | 39.0   | 25.0                | 38.0   | 20.0              | 23.0  | 61.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 4.2   | 21.0                  | 31.0   |
| 5       | 27.0                 | 28.0  | 39.0                 | 42.0   | 28.0                | 38.0   | 23.0              | 26.0  | 85.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.8                  | 5.0   | 22.0                  | 31.5   |
| 6       | 30.0                 | 31.0  | 40.0                 | 40.0   | 31.0                | 40.0   | 25.0              | 25.0  | 60.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 7.0   | 27.0                  | 32.0   |
| 7       | 30.0                 | 33.0  | 41.0                 | 42.0   | 33.0                | 40.0   | 23.0              | 23.0  | 40.0                  | 20.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.8                  | 7.0   | 27.0                  | 32.0   |
| 8       | 28.0                 | 30.0  | 42.0                 | 43.0   | 31.0                | 40.0   | 23.0              | 24.0  | 54.0                  | 20.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.6                  | 8.0   | 27.0                  | 32.0   |
| 9       | 28.0                 | 29.0  | 41.0                 | 43.0   | 34.0                | 40.0   | 22.0              | 24.0  | 41.0                  | 16.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 8.0   | 27.0                  | 31.0   |
| 10      | 28.0                 | 28.5  | 42.0                 | 43.0   | 30.0                | 40.0   | 22.0              | 23.0  | 47.0                  | 20.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.2                  | 8.2   | 26.5                  | 32.0   |
| 11      | 25.0                 | 31.0  | 42.0                 | 43.0   | 32.0                | 39.0   | 24.0              | 24.0  | 49.0                  | 64.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 10.6  | 4.2                  | 8.6   | 27.0                  | 28.0   |
| 12      | 24.5                 | 27.0  | 39.5                 | 41.0   | 28.0                | 39.0   | 22.0              | 25.0  | 57.0                  | 29.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.4                  | 4.0   | 24.0                  | 33.5   |
| 13      | 24.0                 | 27.0  | 39.0                 | 40.0   | 29.0                | 38.0   | 22.0              | 23.0  | 52.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | 9.0           | -     | 5.0                  | 6.0   | 23.0                  | 31.0   |
| 14      | 27.0                 | 28.0  | 38.0                 | 38.0   | 29.0                | 37.0   | 24.0              | 28.0  | 92.0                  | 31.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 9.0   | 25.5                  | 32.5   |
| 15      | 22.5                 | 25.0  | 37.5                 | 38.0   | 26.0                | 37.0   | 22.0              | 24.0  | 69.0                  | 31.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | 2.4           | -     | 3.4                  | 8.0   | 23.0                  | 31.0   |
| 16      | 26.0                 | 30.0  | 37.0                 | 40.0   | 32.0                | 38.0   | 24.0              | 30.0  | 86.0                  | 28.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 9.0   | 26.0                  | 33.0   |
| 17      | 26.0                 | 27.0  | 39.0                 | 42.0   | 27.0                | 30.0   | 22.0              | 22.0  | 63.0                  | 47.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | 1.4   | 3.2                  | 6.4   | 26.0                  | 31.0   |
| 18      | 26.0                 | 27.0  | 39.0                 | 40.0   | 27.0                | 39.0   | 23.0              | 24.0  | 70.0                  | 25.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 2.0                  | 5.0   | 24.0                  | 31.5   |
| 19      | 27.0                 | 28.0  | 39.0                 | 42.0   | 30.0                | 40.0   | 23.0              | 25.0  | 53.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 3.0                  | 5.0   | 26.0                  | 34.0   |
| 20      | 30.0                 | 31.0  | 42.0                 | 42.0   | 32.0                | 39.0   | 24.0              | 25.0  | 55.0                  | 25.5  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 6.0   | 27.5                  | 33.5   |
| 21      | 29.0                 | 30.0  | 40.0                 | 41.0   | 31.0                | 39.0   | 23.0              | 25.0  | 48.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.4                  | 6.0   | 27.0                  | 34.0   |
| 22      | 29.0                 | 32.0  | 40.0                 | 43.0   | 32.0                | 39.0   | 25.0              | 25.0  | 55.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 6.0   | 28.0                  | 34.5   |
| 23      | 28.0                 | 31.0  | 40.0                 | 42.0   | 31.0                | 39.0   | 23.0              | 25.0  | 48.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 7.0   | 25.5                  | 35.0   |
| 24      | 30.0                 | 31.0  | 40.0                 | 41.0   | 31.0                | 39.0   | 23.0              | 25.0  | 48.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.4                  | 8.0   | 25.0                  | 35.0   |
| 25      | 30.0                 | 31.0  | 40.0                 | 42.0   | 31.0                | 39.0   | 25.0              | 25.0  | 60.0                  | 24.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.2                  | 8.2   | 25.5                  | 35.5   |
| 26      | 28.0                 | 29.0  | 41.0                 | 43.0   | 30.0                | 38.0   | 25.0              | 26.0  | 65.0                  | 36.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 6.0   | 25.0                  | 34.5   |
| 27      | 28.0                 | 29.0  | 40.0                 | 42.0   | 29.0                | 38.0   | 23.0              | 25.0  | 58.0                  | 32.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 6.0   | 26.0                  | 33.0   |
| 28      | 29.0                 | 30.0  | 40.0                 | 42.0   | 31.0                | 40.0   | 24.0              | 25.0  | 54.0                  | 27.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 8.0   | 27.0                  | 33.5   |
| 29      | 31.0                 | 32.0  | 41.0                 | 43.0   | 32.0                | 42.0   | 25.0              | 28.0  | 55.0                  | 38.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.0                  | 8.0   | 27.5                  | 33.0   |
| 30      | 30.0                 | 31.0  | 42.0                 | 43.0   | 31.0                | 42.0   | 24.0              | 26.0  | 54.0                  | 25.0  | ..                        | ..    | ..                      | ..    | ..                      | ..    | -             | -     | 4.2                  | 8.2   | 27.0                  | 33.0   |
| 31      | 28.0                 |       | 43.0                 |        | 29.0                |        | 23.0              |       | 58.0                  |       | ..                        |       | ..                      |       | ..                      |       | -             |       | 3.4                  |       | 26.0                  |        |
| Total   | 854.0                | 908.5 | 1236.0               | 1284.0 | 927.0               | 1198.5 | 717.0             | 772.5 | 1804.0                | 901.0 | .. *                      | .. *  | .. *                    | .. *  |                         |       | 11.4          | 12.0  | 117.2                | 205.0 | 785.5                 | 1004.5 |
| Average | 27.5                 | 29.3  | 39.9                 | 41.4   | 29.9                | 38.7   | 23.1              | 24.9  | 58.2                  | 29.1  | .. *                      | .. *  | .. *                    | .. *  |                         |       |               |       |                      |       | 25.3                  | 32.4   |
|         | 28.4                 |       | 40.6                 |        | 34.3                |        | 24.0              |       | 43.6                  |       | 0.0 *                     |       | 0.0 *                   |       |                         |       | 23.4          |       | 322.2                |       | 28.9                  |        |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| June 17 |                      |       |                      |        |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 35.0  |                      | 46.0   |                     | ..    |                   | ..    |                       | ..    |                           | 1.0   |                         | 4.7   |                         | SW    |               | -     |                      | 4.0   |                       | 35.0  |
| 1       | 27.0                 | 30.0  | 42.0                 | 42.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 21.1                    | 4.5   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 35.0  |
| 2       | 25.0                 | 28.0  | 40.0                 | 40.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.3                     | 2.7   | SW                      | NW    | 11.8          | -     | 2.0                  | 2.0   | 28.0                  | 35.0  |
| 3       | 25.0                 | 28.0  | 42.0                 | 42.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.7                     | 6.1   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 35.0  |
| 4       | 27.0                 | 35.0  | 42.0                 | 44.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.7                     | 6.7   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 35.0  |
| 5       | 30.0                 | 35.0  | 42.0                 | 46.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.3                     | 4.4   | NW                      | SW    | -             | 4.4   | 6.0                  | 2.0   | 29.0                  | 35.0  |
| 6       | 26.0                 | 26.0  | 44.0                 | 45.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 4.7                     | 5.1   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 29.0                  | 35.0  |
| 7       | 26.0                 | 30.0  | 31.0                 | 40.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.9                     | 6.3   | SW                      | NW    | -             | -     | 4.0                  | 4.0   | 29.0                  | 34.0  |
| 8       | 25.0                 | 30.0  | 42.0                 | 46.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 0.9                     | 1.5   | NW                      | NE    | -             | -     | 4.0                  | 6.0   | 30.0                  | 35.0  |
| 9       | 27.0                 | 30.0  | 45.0                 | 47.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 0.7                     | 1.6   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 30.0                  | 35.0  |
| 10      | 22.0                 | 25.0  | 45.0                 | 48.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 0.7                     | 1.6   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 30.0                  | 32.0  |
| 11      | 26.0                 | 25.0  | 45.0                 | 48.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.0                     | 3.9   | SW                      | NW    | -             | 1.4   | 4.0                  | 4.0   | 29.0                  | 32.0  |
| 12      | 25.0                 | 26.0  | 35.0                 | 42.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.0                     | 4.5   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 29.0                  | 34.0  |
| 13      | 22.0                 | 24.0  | 45.0                 | 48.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.0                     | 10.4  | SW                      | SW    | 13.6          | -     | 2.0                  | 2.0   | 29.0                  | 34.0  |
| 14      | 23.0                 | 30.0  | 35.0                 | 42.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.4                     | 5.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 30.0                  | 34.0  |
| 15      | 28.0                 | 30.0  | 46.0                 | 43.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.9                     | 8.8   | SW                      | SE    | -             | -     | 2.0                  | 2.0   | 31.0                  | 35.0  |
| 16      | 23.0                 | 30.0  | 46.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.9                     | 5.9   | SW                      | SW    | 23.8          | -     | 1.0                  | 2.0   | 29.0                  | 35.0  |
| 17      | 26.0                 | 30.0  | 34.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 4.4                     | 6.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.0                  | 35.0  |
| 18      | 28.0                 | 30.0  | 34.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 4.2                     | 6.3   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 35.0  |
| 19      | 29.0                 | 32.0  | 35.0                 | 37.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.6                     | 4.9   | SW                      | SE    | -             | -     | 2.0                  | 2.0   | 29.0                  | 35.0  |
| 20      | 27.0                 | 32.0  | 34.0                 | 48.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.8                     | 4.0   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 31.0                  | 33.0  |
| 21      | 26.0                 | 28.0  | 46.0                 | 42.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.0                     | 4.2   | SW                      | SW    | -             | -     | 4.0                  | 2.0   | 29.0                  | 33.0  |
| 22      | 24.0                 | 25.0  | 40.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.0                     | 6.7   | SW                      | NW    | 5.6           | -     | 2.0                  | 2.0   | 28.0                  | 30.0  |
| 23      | 25.0                 | 27.0  | 35.0                 | 34.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.7                     | 4.8   | SW                      | SW    | 6.2           | -     | 0.6                  | 2.0   | 29.0                  | 31.0  |
| 24      | 26.0                 | 28.0  | 34.0                 | 38.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.6                     | 6.7   | SW                      | SW    | -             | 14.6  | 1.0                  | 1.0   | 26.0                  | 30.0  |
| 25      | 23.0                 | 25.0  | 34.0                 | 39.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.6                     | 5.4   | SW                      | SW    | 59.0          | -     | 1.0                  | 1.0   | 26.0                  | 30.0  |
| 26      | 22.0                 | 25.0  | 32.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.6                     | 5.2   | SW                      | SW    | 8.2           | 10.4  | 2.0                  | 1.0   | 26.0                  | 29.0  |
| 27      | 25.0                 | 26.0  | 30.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.2                     | 2.7   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 26.0                  | 30.0  |
| 28      | 25.0                 | 26.0  | 35.0                 | 40.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.7                     | 5.1   | NW                      | SW    | -             | -     | 1.0                  | 1.0   | 30.0                  | 29.0  |
| 29      | 25.0                 | 26.0  | 30.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 4.3                     | 5.7   | SW                      | SW    | -             | 9.6   | 1.0                  | 1.0   | 28.0                  | 29.0  |
| 30      | 25.0                 |       | 32.0                 |        | ..                  |       | ..                |       | ..                    |       | 1.0                       |       | 4.3                     |       | SW                      |       | -             |       | 0.6                  |       | 28.0                  |       |
| Total   | 763.0                | 857.0 | 1152.0               | 1235.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 30.0                      | 30.0  | 103.2                   | 152.1 |                         |       | 128.2         | 40.4  | 70.2                 | 80.0  | 861.0                 | 994.0 |
| Average | 25.4                 | 28.6  | 38.4                 | 41.2   | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 1.0                       | 1.0   | 3.4                     | 5.1   |                         |       |               |       |                      |       | 28.7                  | 33.1  |
|         | 27.0                 |       | 39.8                 |        | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 1.0                       |       | 4.3                     |       |                         |       | 168.6         |       | 150.2                |       | 30.9                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
0.0 .. N.A.

| July 17 |                      |       |                      |       |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 26.0  |                      | 35.0  |                     | ..    |                   | ..    |                       | ..    |                           | 1.0   |                         | 5.7   |                         | SW    |               | -     |                      | 1.0   |                       | 29.0  |
| 1       | 25.0                 | 20.0  | 35.0                 | 28.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 4.5                     | 8.4   | SW                      | SW    | 30.4          | 10.4  | 0.4                  | 1.0   | 30.0                  | 29.0  |
| 2       | 25.0                 | 30.0  | 29.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.7                     | 9.2   | SW                      | SW    | 8.2           | -     | 2.0                  | 1.0   | 28.0                  | 30.0  |
| 3       | 25.0                 | 26.0  | 30.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.7                     | 10.2  | SW                      | SW    | -             | -     | 2.0                  | 1.0   | 27.0                  | 29.0  |
| 4       | 24.0                 | 25.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.1                     | 5.8   | SW                      | SW    | 4.8           | -     | 0.8                  | 1.0   | 28.0                  | 30.0  |
| 5       | 23.0                 | 25.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.6                     | 4.1   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 27.0                  | 30.0  |
| 6       | 25.0                 | 25.0  | 31.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 5.3                     | 4.8   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 29.0                  | 30.0  |
| 7       | 25.0                 | 30.0  | 30.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.3                     | 4.3   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 30.0                  | 30.0  |
| 8       | 25.0                 | 30.0  | 30.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.8                     | 7.2   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 31.0  |
| 9       | 25.0                 | 30.0  | 30.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.4                     | 6.5   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 31.0  |
| 10      | 24.0                 | 23.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.5                     | 5.3   | SW                      | SW    | 7.6           | 14.2  | 1.6                  | 0.2   | 28.0                  | 28.0  |
| 11      | 24.0                 | 23.0  | 30.0                 | 28.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.1                     | 2.5   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 30.0  |
| 12      | 24.0                 | 24.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.9                     | 7.5   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 34.0  |
| 13      | 24.0                 | 25.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.7                     | 5.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 31.0  |
| 14      | 24.0                 | 25.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.0                     | 4.2   | SW                      | SW    | 2.0           | 9.0   | 1.0                  | 1.0   | 27.0                  | 32.0  |
| 15      | 23.0                 | 24.0  | 32.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.3                     | 3.8   | SW                      | SW    | 15.0          | -     | 1.0                  | 2.0   | 27.0                  | 32.0  |
| 16      | 24.0                 | 25.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.1                     | 3.1   | SW                      | SW    | -             | 7.2   | 2.0                  | 1.2   | 27.0                  | 31.0  |
| 17      | 24.0                 | 25.0  | 29.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.2                     | 3.8   | NE                      | NE    | 1.4           | -     | 1.0                  | 2.0   | 27.0                  | 36.0  |
| 18      | 24.0                 | 27.0  | 29.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.3                     | 3.6   | SW                      | SW    | 19.6          | -     | 1.6                  | 4.0   | 28.0                  | 27.0  |
| 19      | 23.0                 | 25.0  | 33.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.3                     | 2.5   | SW                      | SW    | 11.4          | -     | 1.4                  | 2.0   | 29.0                  | 32.0  |
| 20      | 24.0                 | 25.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 5.3                     | 3.9   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 30.0  |
| 21      | 24.0                 | 26.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.4                     | 2.3   | SW                      | SW    | 10.0          | -     | 1.0                  | 4.0   | 28.0                  | 33.0  |
| 22      | 25.0                 | 26.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.3                     | 4.4   | SW                      | SW    | 14.6          | 2.0   | 0.6                  | 1.0   | 28.0                  | 31.0  |
| 23      | 24.0                 | 25.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.5                     | 2.4   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 28.0                  | 31.0  |
| 24      | 24.0                 | 25.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 4.3                     | 5.0   | SW                      | SW    | 6.2           | 7.2   | 0.2                  | 1.2   | 27.0                  | 32.0  |
| 25      | 24.0                 | 25.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.6                     | 5.6   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 34.0  |
| 26      | 23.0                 | 24.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 2.9                     | 5.3   | SW                      | SW    | 1.4           | 1.2   | 1.0                  | 1.0   | 27.0                  | 26.0  |
| 27      | 23.0                 | 24.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.0                     | 4.8   | SW                      | SW    | 1.2           | 1.4   | 1.0                  | 1.0   | 26.0                  | 29.0  |
| 28      | 24.0                 | 25.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 3.7                     | 4.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 32.0  |
| 29      | 24.0                 | 25.0  | 29.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.5                     | 4.5   | SW                      | SW    | 7.2           | -     | 1.0                  | 2.0   | 26.0                  | 35.0  |
| 30      | 25.0                 | 26.0  | 31.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 1.0                       | 1.0   | 1.0                     | 5.4   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 35.0  |
| 31      | 25.0                 |       | 30.0                 |       | ..                  |       | ..                |       | ..                    |       | 1.0                       |       | 1.4                     |       | SW                      |       | -             |       | 2.0                  |       | 28.0                  |       |
| Total   | 749.0                | 789.0 | 926.0                | 971.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 31.0                      | 31.0  | 84.7                    | 155.1 |                         |       | 141.0         | 52.6  | 43.6                 | 57.6  | 858.0                 | 960.0 |
| Average | 24.2                 | 25.5  | 29.9                 | 31.3  | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 1.0                       | 1.0   | 2.7                     | 5.0   |                         |       |               |       |                      |       | 27.7                  | 31.0  |
|         | 24.8                 |       | 30.6                 |       | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 1.0                       |       | 3.9                     |       |                         |       | 193.6         |       | 101.2                |       | 29.3                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Aug-17  |                      |       |                      |        |                     |       |                   |       |                       |          |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|----------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |          | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30    | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 26.0  |                      | 32.0   |                     | ..    |                   | ..    |                       | ..       |                           | 1.0   |                         | 4.9   |                         | SW    |               | -     |                      | 4.0   |                       | 36.0  |
| 1       | 26.0                 | 28.0  | 33.0                 | 34.0   | ..                  | ..    | ..                | ..    | 78.0                  | 67.0     | -                         | 2.0   | 0.9                     | 5.3   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 30.0                  | 31.0  |
| 2       | 28.0                 | 29.0  | 33.0                 | 34.0   | ..                  | ..    | ..                | ..    | 85.0                  | 78.0     | 2.0                       | 6.0   | 1.2                     | 6.1   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 30.0                  | 32.0  |
| 3       | 25.0                 | 28.0  | 32.0                 | 35.0   | ..                  | ..    | ..                | ..    | 72.0                  | 68.0     | 4.0                       | 2.0   | 2.1                     | 6.3   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 33.0  |
| 4       | 25.0                 | 26.0  | 32.0                 | 34.0   | ..                  | ..    | ..                | ..    | 77.0                  | 78.0     | 4.0                       | 4.0   | 1.9                     | 5.2   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 33.0  |
| 5       | 25.0                 | 26.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 92.0                  | 85.0     | 2.0                       | -     | 1.1                     | 4.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 32.0  |
| 6       | 25.0                 | 26.0  | 30.0                 | 31.0   | ..                  | ..    | ..                | ..    | 92.0                  | 92.0     | -                         | 9.0   | 2.2                     | 4.1   | SE                      | SW    | -             | 20.2  | 2.0                  | 2.0   | 28.0                  | 30.0  |
| 7       | 24.0                 | 25.0  | 29.0                 | 30.0   | ..                  | ..    | ..                | ..    | 92.0                  | 85.0     | 2.0                       | 2.0   | 0.8                     | 2.6   | SW                      | SW    | 14.8          | -     | 0.8                  | 1.0   | 27.0                  | 30.0  |
| 8       | 24.0                 | 25.0  | 29.0                 | 30.0   | ..                  | ..    | ..                | ..    | 92.0                  | 77.0     | 4.0                       | -     | 2.3                     | 4.1   | SW                      | SW    | -             | 3.2   | 1.0                  | 0.2   | 27.0                  | 30.0  |
| 9       | 24.0                 | 26.0  | 29.0                 | 30.0   | ..                  | ..    | ..                | ..    | 92.0                  | 85.0     | 4.0                       | -     | 2.3                     | 3.3   | SW                      | SW    | 3.2           | 5.2   | 0.2                  | 1.2   | 26.0                  | 30.0  |
| 10      | 23.0                 | 25.0  | 29.0                 | 30.0   | ..                  | ..    | ..                | ..    | 92.0                  | 85.0     | 2.0                       | -     | 2.0                     | 3.6   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 31.0  |
| 11      | 23.0                 | 25.0  | 30.0                 | 34.0   | ..                  | ..    | ..                | ..    | 84.0                  | 72.0     | 2.0                       | 6.0   | 2.0                     | 4.0   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 32.0  |
| 12      | 24.0                 | 26.0  | 32.0                 | 34.0   | ..                  | ..    | ..                | ..    | 92.0                  | 78.0     | 2.0                       | -     | 1.8                     | 6.0   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 33.0  |
| 13      | 25.0                 | 26.0  | 31.0                 | 32.0   | ..                  | ..    | ..                | ..    | 92.0                  | 85.0     | 4.0                       | 6.0   | 1.0                     | 5.0   | SW                      | SW    | 2.0           | 6.2   | 1.0                  | 0.2   | 28.0                  | 32.0  |
| 14      | 24.0                 | 25.0  | 32.0                 | 34.0   | ..                  | ..    | ..                | ..    | 84.0                  | 85.0     | 2.0                       | 2.0   | 2.0                     | 3.7   | SW                      | SW    | -             | 1.4   | 2.0                  | 2.0   | 38.0                  | 31.0  |
| 15      | 24.0                 | 25.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 77.0                  | 78.0     | -                         | 4.0   | 1.9                     | 3.1   | NW                      | SW    | -             | 7.2   | 2.0                  | 1.2   | 28.0                  | 31.0  |
| 16      | 24.0                 | 26.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 77.0                  | 78.0     | 2.0                       | -     | 1.1                     | 3.3   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 32.0  |
| 17      | 24.0                 | 26.0  | 30.0                 | 31.0   | ..                  | ..    | ..                | ..    | 77.0                  | 78.0     | -                         | 2.0   | 1.0                     | 2.8   | SW                      | SW    | -             | 7.6   | 2.0                  | 1.6   | 28.0                  | 30.0  |
| 18      | 23.0                 | 25.0  | 30.0                 | 31.0   | ..                  | ..    | ..                | ..    | 85.0                  | 85.0     | 4.0                       | -     | 0.8                     | 2.7   | SW                      | SW    | -             | 6.0   | 2.0                  | 2.0   | 27.0                  | 30.0  |
| 19      | 23.0                 | 25.0  | 27.0                 | 31.0   | ..                  | ..    | ..                | ..    | 84.0                  | 85.0     | 1.0                       | -     | 1.1                     | 4.1   | NW                      | SW    | 13.0          | 3.6   | 1.0                  | 1.6   | 27.0                  | 31.0  |
| 20      | 24.0                 | 25.0  | 30.0                 | 31.0   | ..                  | ..    | ..                | ..    | 92.0                  | 78.0     | 2.0                       | 2.0   | 1.6                     | 2.7   | SW                      | SW    | 6.0           | -     | 1.0                  | 2.0   | 28.0                  | 31.0  |
| 21      | 24.0                 | 25.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 84.0                  | 78.0     | 2.0                       | 2.0   | 1.7                     | 2.5   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 31.0  |
| 22      | 24.0                 | 27.0  | 31.0                 | 33.0   | ..                  | ..    | ..                | ..    | 92.0                  | 78.0     | 2.0                       | -     | 0.5                     | 3.2   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 31.0  |
| 23      | 25.0                 | 26.0  | 31.0                 | 34.0   | ..                  | ..    | ..                | ..    | 92.0                  | 73.0     | 4.0                       | 2.0   | 0.3                     | 2.3   | SW                      | SW    | -             | -     | 1.0                  | 4.0   | 28.0                  | 32.0  |
| 24      | 24.0                 | 25.0  | 31.0                 | 34.0   | ..                  | ..    | ..                | ..    | 92.0                  | 72.0     | -                         | 2.0   | 1.1                     | 3.2   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 32.0  |
| 25      | 24.0                 | 26.0  | 31.0                 | 34.0   | ..                  | ..    | ..                | ..    | 77.0                  | 85.0     | 2.0                       | -     | 1.3                     | 1.5   | SW                      | SW    | 6.6           | -     | 0.6                  | 2.0   | 28.0                  | 32.0  |
| 26      | 25.0                 | 26.0  | 31.0                 | 34.0   | ..                  | ..    | ..                | ..    | 85.0                  | 78.0     | -                         | -     | 1.5                     | 1.6   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 32.0  |
| 27      | 25.0                 | 26.0  | 32.0                 | 33.0   | ..                  | ..    | ..                | ..    | 78.0                  | 85.0     | 2.0                       | -     | 0.5                     | 1.7   | SW                      | SW    | 11.8          | 17.0  | 1.8                  | 1.0   | 29.0                  | 33.0  |
| 28      | 24.0                 | 25.0  | 31.0                 | 32.0   | ..                  | ..    | ..                | ..    | 78.0                  | 78.0     | -                         | 2.0   | 1.2                     | 1.0   | SE                      | SW    | 14.6          | 17.8  | 0.6                  | 0.8   | 29.0                  | 33.0  |
| 29      | 24.0                 | 25.0  | 31.0                 | 32.0   | ..                  | ..    | ..                | ..    | 78.0                  | 78.0     | 2.0                       | 2.0   | 0.6                     | 3.2   | SW                      | SW    | 21.2          | 10.8  | 1.2                  | 0.8   | 28.0                  | 31.0  |
| 30      | 24.0                 | 25.0  | 31.0                 | 32.0   | ..                  | ..    | ..                | ..    | 72.0                  | 78.0     | -                         | -     | 0.6                     | 3.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 31.0  |
| 31      | 25.0                 |       | 31.0                 |        | ..                  |       | ..                |       | 72.0                  |          | -                         |       | 1.1                     |       | NW                      |       | -             |       | 2.0                  |       | 28.0                  |       |
| Total   | 755.0                | 800.0 | 949.0                | 1006.0 | .. *                | .. *  | .. *              | .. *  | 2608.0                | 2385.0 * | 57.0                      | 58.0  | 41.5                    | 110.9 |                         |       | 93.2          | 106.2 | 48.2                 | 71.6  | 874.0                 | 979.0 |
| Average | 24.4                 | 25.8  | 30.6                 | 32.5   | .. *                | .. *  | .. *              | .. *  | 84.1                  | 79.5 *   | 1.8                       | 1.9   | 1.3                     | 3.6   |                         |       |               |       |                      |       | 28.2                  | 31.6  |
|         | 25.1                 |       | 31.5                 |        | 0.0 *               |       | 0.0 *             |       | 81.8 *                |          | 1.9                       |       | 2.5                     |       |                         |       | 199.4         |       | 119.8                |       | 29.9                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 26.0  |                      | 32.0  |                     | ..    |                   | ..    |                       | 78.0   |                           | -     |                         | 2.9   |                         | SW    |               | -     |                      | 2.0   |                       | 31.0  |
| 1       | 25.0                 | 27.0  | 30.0                 | 33.0  | ..                  | ..    | ..                | ..    | 85.0                  | 73.0   | 2.0                       | -     | 1.8                     | 1.2   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 35.0  |
| 2       | 24.0                 | 27.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | 78.0                  | 73.0   | -                         | -     | 0.8                     | 3.3   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 34.0  |
| 3       | 24.0                 | 29.0  | 32.0                 | 35.0  | ..                  | ..    | ..                | ..    | 78.0                  | 67.0   | 2.0                       | 2.0   | 0.5                     | 2.5   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 35.0  |
| 4       | 25.0                 | 28.0  | 33.0                 | 36.0  | ..                  | ..    | ..                | ..    | 85.0                  | 78.0   | -                         | -     | 1.1                     | 3.4   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 35.0  |
| 5       | 25.0                 | 28.0  | 32.0                 | 36.0  | ..                  | ..    | ..                | ..    | 72.0                  | 78.0   | 2.0                       | 4.0   | 0.4                     | 3.0   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 30.0                  | 36.0  |
| 6       | 25.0                 | 28.0  | 31.0                 | 35.0  | ..                  | ..    | ..                | ..    | 72.0                  | 78.0   | 2.0                       | -     | 0.8                     | 2.1   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 30.0                  | 36.0  |
| 7       | 25.0                 | 27.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | 78.0                  | 73.0   | -                         | -     | 0.4                     | 2.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 30.0                  | 37.0  |
| 8       | 26.0                 | 28.0  | 32.0                 | 33.0  | ..                  | ..    | ..                | ..    | 78.0                  | 67.0   | 4.0                       | -     | 0.6                     | 2.1   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 31.0                  | 36.0  |
| 9       | 25.0                 | 26.0  | 32.0                 | 32.0  | ..                  | ..    | ..                | ..    | 78.0                  | 65.0   | 2.0                       | 4.0   | 0.5                     | 3.1   | SW                      | SW    | -             | 18.2  | 2.0                  | 2.0   | 31.0                  | 32.0  |
| 10      | 24.0                 | 27.0  | 32.0                 | 34.0  | ..                  | ..    | ..                | ..    | 85.0                  | 67.0   | 2.0                       | -     | 1.0                     | 1.3   | NW                      | SW    | 4.8           | -     | 0.8                  | 2.0   | 29.0                  | 33.0  |
| 11      | 25.0                 | 28.0  | 33.0                 | 34.0  | ..                  | ..    | ..                | ..    | 78.0                  | 73.0   | -                         | -     | 0.4                     | 1.5   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 30.0                  | 33.0  |
| 12      | 25.0                 | 26.0  | 29.0                 | 32.0  | ..                  | ..    | ..                | ..    | 77.0                  | 85.0   | 2.0                       | -     | 0.7                     | 3.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 30.0                  | 33.0  |
| 13      | 24.0                 | 25.0  | 31.0                 | 32.0  | ..                  | ..    | ..                | ..    | 85.0                  | 92.0   | -                         | 2.0   | 1.4                     | 2.4   | SW                      | SW    | -             | 8.4   | 2.0                  | 2.0   | 28.0                  | 31.0  |
| 14      | 25.0                 | 25.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | 78.0                  | 78.0   | -                         | -     | 1.4                     | 3.0   | SW                      | SW    | -             | 1.2   | 1.0                  | 2.0   | 28.0                  | 32.0  |
| 15      | 24.0                 | 27.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | 85.0                  | 78.0   | 2.0                       | 2.0   | 0.9                     | 2.6   | SW                      | SW    | -             | 1.4   | 2.0                  | 1.0   | 28.0                  | 34.0  |
| 16      | 25.0                 | 27.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | 85.0                  | 77.0   | 2.0                       | 4.0   | 0.9                     | 3.6   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 35.0  |
| 17      | 24.0                 | 26.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | 85.0                  | 77.0   | 2.0                       | 4.0   | 0.7                     | 1.3   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 30.0                  | 35.0  |
| 18      | 23.0                 | 24.0  | 29.0                 | 32.0  | ..                  | ..    | ..                | ..    | 85.0                  | 64.0   | 2.0                       | 2.0   | 1.4                     | 3.7   | NW                      | SW    | -             | 31.0  | 2.0                  | 1.0   | 30.0                  | 35.0  |
| 19      | 23.0                 | 24.0  | 29.0                 | 31.0  | ..                  | ..    | ..                | ..    | 92.0                  | 92.0   | -                         | -     | 1.4                     | 2.1   | SW                      | NE    | 52.4          | 36.6  | 0.4                  | 0.6   | 27.0                  | 30.0  |
| 20      | 23.0                 | 25.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | 91.0                  | 92.0   | -                         | -     | 1.5                     | 3.8   | SW                      | SW    | 15.0          | 7.2   | 1.6                  | 1.2   | 26.0                  | 30.0  |
| 21      | 24.0                 | 25.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | 84.0                  | 85.0   | 2.0                       | 2.0   | 2.5                     | 4.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 30.0  |
| 22      | 24.0                 | 26.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | 92.0                  | 92.0   | 4.0                       | -     | 2.2                     | 3.4   | NW                      | SW    | 3.6           | -     | 1.6                  | 2.0   | 27.0                  | 30.0  |
| 23      | 23.0                 | 26.0  | 29.0                 | 31.0  | ..                  | ..    | ..                | ..    | 78.0                  | 72.0   | 2.0                       | 2.0   | 0.3                     | 1.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 31.0  |
| 24      | 24.0                 | 26.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | 78.0                  | 78.0   | -                         | -     | 0.5                     | 1.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.0                  | 31.0  |
| 25      | 24.0                 | 26.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | 78.0                  | 78.0   | 2.0                       | -     | 1.0                     | 1.9   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 32.0  |
| 26      | 25.0                 | 27.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | 85.0                  | 72.0   | 4.0                       | -     | 1.1                     | 2.9   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 33.0  |
| 27      | 24.0                 | 27.0  | 31.0                 | 34.0  | ..                  | ..    | ..                | ..    | 72.0                  | 78.0   | 2.0                       | -     | 0.2                     | 2.5   | SE                      | NE    | -             | -     | 2.0                  | 2.0   | 29.0                  | 34.0  |
| 28      | 25.0                 | 26.0  | 32.0                 | 33.0  | ..                  | ..    | ..                | ..    | 78.0                  | 72.0   | 4.0                       | 4.0   | 0.2                     | 2.3   | SE                      | NE    | -             | 2.0   | 2.0                  | 1.0   | 30.0                  | 32.0  |
| 29      | 25.0                 | 26.0  | 31.0                 | 32.0  | ..                  | ..    | ..                | ..    | 78.0                  | 78.0   | -                         | -     | 0.5                     | 1.8   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 29.0                  | 32.0  |
| 30      | 24.0                 |       | 31.0                 |       | ..                  |       | ..                |       | 77.0                  |        | -                         |       | 0.6                     |       | NE                      |       | -             |       | 2.0                  |       | 29.0                  |       |
| Total   | 731.0                | 793.0 | 918.0                | 981.0 | .. *                | .. *  | .. *              | .. *  | 2430.0                | 2310.0 | 46.0                      | 32.0  | 27.7                    | 76.6  |                         |       | 75.8          | 106.0 | 52.4                 | 60.8  | 867.0                 | 993.0 |
| Average | 24.4                 | 26.4  | 30.6                 | 32.7  | .. *                | .. *  | .. *              | .. *  | 81.0                  | 77.0   | 1.5                       | 1.1   | 0.9                     | 2.6   |                         |       |               |       |                      |       | 28.9                  | 33.1  |
|         | 25.4                 |       | 31.7                 |       | 0.0 *               |       | 0.0 *             |       | 79.0                  |        | 1.3                       |       | 1.7                     |       |                         |       | 181.8         |       | 113.2                |       | 31.0                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 25.0  |                      | 32.0   |                     | ..    |                   | ..    |                       | 72.0   |                           | -     |                         | 1.8   |                         | SW    |               | -     |                      | 2.0   |                       | 32.0  |
| 1       | 25.0                 | 26.0  | 31.0                 | 32.0   | ..                  | ..    | ..                | ..    | 78.0                  | 78.0   | -                         | 4.0   | 0.9                     | 0.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.0                  | 32.0  |
| 2       | 24.0                 | 25.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 92.0                  | 92.0   | -                         | 2.0   | 0.9                     | 2.5   | SW                      | NW    | 5.4           | 1.4   | 1.4                  | 1.0   | 28.0                  | 32.0  |
| 3       | 25.0                 | 26.0  | 31.0                 | 33.0   | ..                  | ..    | ..                | ..    | 85.0                  | 78.0   | 2.0                       | -     | 0.4                     | 1.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 33.0  |
| 4       | 24.0                 | 26.0  | 30.0                 | 34.0   | ..                  | ..    | ..                | ..    | 71.0                  | 85.0   | 2.0                       | -     | 0.3                     | 1.8   | SW                      | NW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 34.0  |
| 5       | 24.0                 | 26.0  | 29.0                 | 34.0   | ..                  | ..    | ..                | ..    | 78.0                  | 78.0   | 2.0                       | 2.0   | 0.3                     | 3.3   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 34.0  |
| 6       | 24.0                 | 27.0  | 30.0                 | 34.0   | ..                  | ..    | ..                | ..    | 78.0                  | 67.0   | 2.0                       | 4.0   | 0.5                     | 2.9   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 28.0                  | 34.0  |
| 7       | 23.0                 | 26.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 92.0                  | 85.0   | 2.0                       | -     | 0.9                     | 2.7   | SW                      | SW    | 3.6           | -     | 0.6                  | 2.0   | 28.0                  | 32.0  |
| 8       | 24.0                 | 26.0  | 29.0                 | 31.0   | ..                  | ..    | ..                | ..    | 84.0                  | 84.0   | 4.0                       | -     | 0.4                     | 3.6   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 29.0                  | 33.0  |
| 9       | 25.0                 | 26.0  | 29.0                 | 30.0   | ..                  | ..    | ..                | ..    | 92.0                  | 85.0   | -                         | 4.0   | 0.3                     | 1.8   | SE                      | SW    | -             | -     | 2.0                  | 1.0   | 28.0                  | 33.0  |
| 10      | 23.0                 | 26.0  | 29.0                 | 32.0   | ..                  | ..    | ..                | ..    | 85.0                  | 85.0   | -                         | 2.0   | 0.5                     | 1.7   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 33.0  |
| 11      | 23.0                 | 27.0  | 29.0                 | 32.0   | ..                  | ..    | ..                | ..    | 78.0                  | 73.0   | -                         | -     | 0.7                     | 1.6   | SW                      | NW    | 4.8           | -     | 2.8                  | 2.0   | 28.0                  | 33.0  |
| 12      | 24.0                 | 27.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 85.0                  | 78.0   | -                         | -     | 0.5                     | 1.2   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 33.0  |
| 13      | 24.0                 | 27.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 85.0                  | 85.0   | -                         | -     | 0.3                     | 1.4   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 34.0  |
| 14      | 24.0                 | 27.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 85.0                  | 85.0   | -                         | 2.0   | 0.3                     | 1.5   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 34.0  |
| 15      | 23.0                 | 27.0  | 32.0                 | 32.0   | ..                  | ..    | ..                | ..    | 78.0                  | 72.0   | -                         | -     | 0.2                     | 1.7   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 27.0                  | 34.0  |
| 16      | 23.0                 | 26.0  | 32.0                 | 33.0   | ..                  | ..    | ..                | ..    | 85.0                  | 59.0   | 2.0                       | -     | 0.3                     | 2.1   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 33.0  |
| 17      | 22.0                 | 26.0  | 32.0                 | 33.0   | ..                  | ..    | ..                | ..    | 70.0                  | 65.0   | 2.0                       | -     | 0.7                     | 1.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 32.0  |
| 18      | 22.0                 | 25.0  | 32.0                 | 33.0   | ..                  | ..    | ..                | ..    | 64.0                  | 64.0   | -                         | -     | 0.5                     | 2.0   | NE                      | NW    | -             | 2.2   | 2.0                  | 2.0   | 25.0                  | 32.0  |
| 19      | 22.0                 | 25.0  | 32.0                 | 33.0   | ..                  | ..    | ..                | ..    | 70.0                  | 70.0   | 2.0                       | 2.0   | 0.6                     | 1.4   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 25.0                  | 32.0  |
| 20      | 23.0                 | 25.0  | 31.0                 | 32.0   | ..                  | ..    | ..                | ..    | 77.0                  | 71.0   | -                         | -     | 0.8                     | 1.8   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 31.0  |
| 21      | 23.0                 | 26.0  | 31.0                 | 33.0   | ..                  | ..    | ..                | ..    | 77.0                  | 72.0   | -                         | 2.0   | 0.4                     | 1.9   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 33.0  |
| 22      | 23.0                 | 26.0  | 31.0                 | 33.0   | ..                  | ..    | ..                | ..    | 84.0                  | 85.0   | -                         | -     | 0.8                     | 2.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 32.0  |
| 23      | 22.0                 | 25.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 77.0                  | 64.0   | -                         | -     | 0.4                     | 1.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 25.0                  | 32.0  |
| 24      | 22.0                 | 25.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 77.0                  | 64.0   | 2.0                       | -     | 0.3                     | 2.2   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 25.0                  | 32.0  |
| 25      | 22.0                 | 22.0  | 30.0                 | 33.0   | ..                  | ..    | ..                | ..    | 76.0                  | 64.0   | 2.0                       | -     | 0.2                     | 1.4   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 24.0                  | 30.0  |
| 26      | 22.0                 | 23.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 68.0                  | 57.0   | 2.0                       | -     | 0.4                     | 2.0   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 23.0                  | 30.0  |
| 27      | 21.0                 | 23.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 76.0                  | 57.0   | 2.0                       | -     | 0.2                     | 2.0   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 23.0                  | 30.0  |
| 28      | 20.0                 | 22.0  | 31.0                 | 33.0   | ..                  | ..    | ..                | ..    | 75.0                  | 51.0   | 2.0                       | -     | 0.3                     | 1.0   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 22.0                  | 30.0  |
| 29      | 20.0                 | 22.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 83.0                  | 64.0   | 2.0                       | -     | 0.8                     | 1.6   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 22.0                  | 29.0  |
| 30      | 21.0                 | 22.0  | 30.0                 | 32.0   | ..                  | ..    | ..                | ..    | 61.0                  | 57.0   | 2.0                       | 2.0   | 0.3                     | 1.7   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 22.0                  | 29.0  |
| 31      | 22.0                 |       | 31.0                 |        | ..                  |       | ..                |       | 82.0                  |        | 2.0                       |       | 0.4                     |       | NE                      |       | -             |       | 2.0                  |       | 22.0                  |       |
| Total   | 709.0                | 783.0 | 942.0                | 1009.0 | .. *                | .. *  | .. *              | .. *  | 2448.0                | 2246.0 | 36.0                      | 26.0  | 14.8                    | 59.1  |                         |       | 13.8          | 3.6   | 53.8                 | 72.0  | 813.0                 | 997.0 |
| Average | 22.9                 | 25.3  | 30.4                 | 32.5   | .. *                | .. *  | .. *              | .. *  | 79.0                  | 72.5   | 1.2                       | 0.8   | 0.5                     | 1.9   |                         |       |               |       |                      |       | 26.2                  | 32.2  |
|         | 24.1                 |       | 31.5                 |        | 0.0 *               |       | 0.0 *             |       | 75.7                  |        | 1.0                       |       | 1.2                     |       |                         |       | 17.4          |       | 125.8                |       | 29.2                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 22.0  |                      | 32.0  |                     | ..    |                   | ..    |                       | 57.0   |                           | -     |                         | 2.1   |                         | NW    |               | -     |                      | 2.0   |                       | 29.0  |
| 1       | 18.0                 | 20.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 74.0                  | 51.0   | -                         | -     | 0.7                     | 1.2   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 2       | 18.0                 | 20.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | 81.0                  | 44.0   | -                         | -     | 0.4                     | 2.4   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 3       | 19.0                 | 21.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | 82.0                  | 56.0   | -                         | -     | 0.3                     | 0.6   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 4       | 20.0                 | 20.0  | 27.0                 | 31.0  | ..                  | ..    | ..                | ..    | 76.0                  | 47.0   | -                         | -     | 0.7                     | 0.8   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 25.0  |
| 5       | 18.0                 | 20.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | 97.0                  | 45.0   | 2.0                       | -     | 0.9                     | 1.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 22.0                  | 26.0  |
| 6       | 18.0                 | 20.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | 74.0                  | 56.0   | -                         | -     | 0.7                     | 1.9   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 25.0  |
| 7       | 19.0                 | 20.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | 75.0                  | 57.0   | 2.0                       | -     | 0.7                     | 1.7   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 8       | 18.0                 | 20.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 75.0                  | 51.0   | 2.0                       | 4.0   | 1.0                     | 3.9   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 9       | 18.0                 | 20.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 82.0                  | 50.0   | -                         | -     | 0.8                     | 1.8   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 10      | 18.0                 | 18.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 73.0                  | 49.0   | 2.0                       | -     | 1.3                     | 2.3   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 25.0  |
| 11      | 17.0                 | 19.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 73.0                  | 55.0   | -                         | -     | 0.5                     | 1.2   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 24.0  |
| 12      | 16.0                 | 18.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 64.0                  | 47.0   | 2.0                       | -     | 0.7                     | 1.4   | NW                      | NE    | -             | -     | 2.0                  | 2.0   | 19.0                  | 23.0  |
| 13      | 16.0                 | 18.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 72.0                  | 68.0   | -                         | 4.0   | 0.6                     | 1.1   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 25.0  |
| 14      | 16.0                 | 18.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | 73.0                  | 91.0   | 2.0                       | 2.0   | 1.1                     | 1.6   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 18.0                  | 26.0  |
| 15      | 19.0                 | 20.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | 74.0                  | 91.0   | 2.0                       | -     | 0.7                     | 1.1   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 25.0  |
| 16      | 19.0                 | 21.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | 91.0                  | 91.0   | 2.0                       | -     | 0.8                     | 2.3   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 25.0  |
| 17      | 20.0                 | 21.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | 75.0                  | 82.0   | 2.0                       | -     | 1.0                     | 1.5   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 18      | 19.0                 | 20.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | 83.0                  | 82.0   | -                         | -     | 0.8                     | 1.0   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 19      | 18.0                 | 19.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | 82.0                  | 91.0   | -                         | -     | 1.4                     | 1.6   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 21.0                  | 26.0  |
| 20      | 18.0                 | 19.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | 82.0                  | 91.0   | 4.0                       | -     | 1.0                     | 2.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 21.0                  | 26.0  |
| 21      | 19.0                 | 22.0  | 22.0                 | 29.0  | ..                  | ..    | ..                | ..    | 82.0                  | 91.0   | -                         | -     | 2.7                     | 1.6   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 26.0  |
| 22      | 19.0                 | 22.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | 60.0                  | 91.0   | -                         | -     | 0.8                     | 1.3   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 21.0                  | 25.0  |
| 23      | 18.0                 | 20.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | 53.0                  | 82.0   | -                         | -     | 0.9                     | 0.7   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 21.0                  | 25.0  |
| 24      | 16.0                 | 20.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | 72.0                  | 73.0   | 2.0                       | -     | 0.4                     | 1.2   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 25.0  |
| 25      | 15.0                 | 20.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | 54.0                  | 73.0   | -                         | -     | 0.8                     | 1.1   | SW                      | NE    | -             | -     | 2.0                  | 3.0   | 20.0                  | 24.0  |
| 26      | 12.0                 | 17.0  | 28.0                 | 29.0  | ..                  | ..    | ..                | ..    | 54.0                  | 73.0   | 2.0                       | -     | 0.5                     | 1.3   | NE                      | SW    | -             | -     | 1.0                  | 1.8   | 19.0                  | 24.0  |
| 27      | 13.0                 | 17.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | 69.0                  | 52.0   | -                         | -     | 0.6                     | 0.8   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 23.0  |
| 28      | 12.0                 | 21.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | 78.0                  | 47.0   | -                         | -     | 0.2                     | 0.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 23.0  |
| 29      | 12.0                 | 14.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | 78.0                  | 47.0   | -                         | -     | 0.6                     | 1.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 14.0                  | 23.0  |
| 30      | 14.0                 |       | 27.0                 |       | ..                  |       | ..                |       | 78.0                  |        | -                         |       | 0.8                     |       | NE                      |       | -             |       | 1.0                  |       | 14.0                  |       |
| Total   | 512.0                | 587.0 | 842.0                | 891.0 | .. *                | .. *  | .. *              | .. *  | 2236.0                | 1981.0 | 26.0                      | 10.0  | 24.4                    | 45.4  |                         |       | -             | -     | 55.0                 | 60.8  | 581.0                 | 756.0 |
| Average | 17.1                 | 19.6  | 28.1                 | 29.7  | .. *                | .. *  | .. *              | .. *  | 74.5                  | 66.0   | 0.9                       | 0.3   | 0.8                     | 1.5   |                         |       |               |       |                      |       | 19.4                  | 25.2  |
|         | 18.3                 |       | 28.9                 |       | 0.0 *               |       | 0.0 *             |       | 70.3                  |        | 0.6                       |       | 1.2                     |       |                         |       | 0.0           |       | 115.8                |       | 22.3                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8

Local River/Basin : Seonath

Station Name : Kotni

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 15.0  |                      | 29.0  |                     | ..    |                   | ..    |                       | 59.0   |                           | -     |                         | 1.3   |                         | NE    |               | -     |                      | 2.0   |                       | 23.0  |
| 1       | 14.0                 | 15.0  | 27.0                 | 28.0  | ..                  | ..    | ..                | ..    | 89.0                  | 46.0   | -                         | -     | 1.3                     | 1.4   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 23.0  |
| 2       | 12.0                 | 16.0  | 26.0                 | 27.0  | ..                  | ..    | ..                | ..    | 61.0                  | 45.0   | 2.0                       | -     | 0.7                     | 0.7   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 22.0  |
| 3       | 11.0                 | 16.0  | 26.0                 | 27.0  | ..                  | ..    | ..                | ..    | 62.0                  | 52.0   | 2.0                       | -     | 0.4                     | 0.5   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 15.0                  | 22.0  |
| 4       | 11.0                 | 14.0  | 26.0                 | 28.0  | ..                  | ..    | ..                | ..    | 69.0                  | 53.0   | 2.0                       | -     | 0.3                     | 0.6   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 15.0                  | 22.0  |
| 5       | 12.0                 | 15.0  | 25.0                 | 28.0  | ..                  | ..    | ..                | ..    | 79.0                  | 47.0   | 2.0                       | -     | 0.5                     | 1.7   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 15.0                  | 22.0  |
| 6       | 13.0                 | 16.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | 80.0                  | 49.0   | 2.0                       | -     | 0.4                     | 0.9   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 15.0                  | 23.0  |
| 7       | 14.0                 | 16.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | 77.0                  | 42.0   | -                         | -     | 0.4                     | 2.3   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 16.0                  | 23.0  |
| 8       | 14.0                 | 17.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | 64.0                  | 49.0   | 2.0                       | -     | 0.8                     | 1.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 16.0                  | 23.0  |
| 9       | 14.0                 | 18.0  | 28.0                 | 28.0  | ..                  | ..    | ..                | ..    | 64.0                  | 38.0   | 2.0                       | -     | 0.7                     | 0.3   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 17.0                  | 23.0  |
| 10      | 15.0                 | 18.0  | 27.0                 | 29.0  | ..                  | ..    | ..                | ..    | 64.0                  | 38.0   | -                         | -     | 0.3                     | 0.6   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.0                  | 23.0  |
| 11      | 14.0                 | 17.0  | 25.0                 | 29.0  | ..                  | ..    | ..                | ..    | 79.0                  | 41.0   | 2.0                       | -     | 0.3                     | 0.7   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 22.0  |
| 12      | 12.0                 | 16.0  | 24.0                 | 29.0  | ..                  | ..    | ..                | ..    | 71.0                  | 49.0   | 2.0                       | -     | 0.8                     | 2.2   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 15.0                  | 23.0  |
| 13      | 14.0                 | 16.0  | 26.0                 | 29.0  | ..                  | ..    | ..                | ..    | 71.0                  | 54.0   | -                         | -     | 1.1                     | 1.3   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 16.0                  | 24.0  |
| 14      | 14.0                 | 17.0  | 26.0                 | 29.0  | ..                  | ..    | ..                | ..    | 72.0                  | 55.0   | -                         | -     | 0.9                     | 1.4   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 16.0                  | 23.0  |
| 15      | 14.0                 | 17.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | 81.0                  | 49.0   | -                         | -     | 0.7                     | 1.0   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 16.0                  | 23.0  |
| 16      | 14.0                 | 16.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | 80.0                  | 49.0   | -                         | -     | 1.0                     | 1.0   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 17.0                  | 24.0  |
| 17      | 14.0                 | 19.0  | 27.0                 | 28.0  | ..                  | ..    | ..                | ..    | 73.0                  | 56.0   | 2.0                       | -     | 0.7                     | 1.0   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 16.0                  | 24.0  |
| 18      | 13.0                 | 15.0  | 25.0                 | 26.0  | ..                  | ..    | ..                | ..    | 71.0                  | 45.0   | -                         | -     | 0.4                     | 0.8   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 16.0                  | 22.0  |
| 19      | 11.0                 | 13.0  | 24.0                 | 27.0  | ..                  | ..    | ..                | ..    | 68.0                  | 50.0   | -                         | -     | 0.7                     | 0.6   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 20.0  |
| 20      | 11.0                 | 14.0  | 23.0                 | 28.0  | ..                  | ..    | ..                | ..    | 59.0                  | 53.0   | -                         | -     | 0.2                     | 0.9   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 21.0  |
| 21      | 12.0                 | 13.0  | 25.0                 | 28.0  | ..                  | ..    | ..                | ..    | 69.0                  | 53.0   | 2.0                       | -     | 1.4                     | 1.3   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 21.0  |
| 22      | 12.0                 | 13.0  | 26.0                 | 28.0  | ..                  | ..    | ..                | ..    | 71.0                  | 53.0   | -                         | -     | 0.4                     | 1.1   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 21.0  |
| 23      | 12.0                 | 13.0  | 27.0                 | 28.0  | ..                  | ..    | ..                | ..    | 89.0                  | 39.0   | -                         | -     | 0.5                     | 1.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 21.0  |
| 24      | 11.0                 | 11.0  | 23.0                 | 28.0  | ..                  | ..    | ..                | ..    | 59.0                  | 41.0   | 2.0                       | -     | 0.4                     | 0.3   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 21.0  |
| 25      | 11.0                 | 12.0  | 26.0                 | 27.0  | ..                  | ..    | ..                | ..    | 89.0                  | 47.0   | 2.0                       | -     | 0.4                     | 1.2   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 13.0                  | 22.0  |
| 26      | 10.0                 | 13.0  | 27.0                 | 27.0  | ..                  | ..    | ..                | ..    | 78.0                  | 53.0   | -                         | -     | 0.5                     | 1.4   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 14.0                  | 21.0  |
| 27      | 10.0                 | 13.0  | 24.0                 | 27.0  | ..                  | ..    | ..                | ..    | 57.0                  | 31.0   | 2.0                       | -     | 0.2                     | 0.6   | NW                      | SE    | -             | -     | 2.0                  | 1.0   | 14.0                  | 20.0  |
| 28      | 10.0                 | 15.0  | 24.0                 | 27.0  | ..                  | ..    | ..                | ..    | 59.0                  | 50.0   | 2.0                       | -     | 1.0                     | 0.2   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 20.0  |
| 29      | 10.0                 | 15.0  | 24.0                 | 28.0  | ..                  | ..    | ..                | ..    | 52.0                  | 50.0   | -                         | -     | 0.3                     | 1.0   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 20.0  |
| 30      | 10.0                 | 14.0  | 24.0                 | 27.0  | ..                  | ..    | ..                | ..    | 59.0                  | 34.0   | 2.0                       | -     | 0.5                     | 0.6   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 20.0  |
| 31      | 10.0                 |       | 22.0                 |       | ..                  |       | ..                |       | 79.0                  |        | -                         |       | 0.3                     |       | NE                      |       | -             |       | 1.0                  |       | 13.0                  |       |
| Total   | 379.0                | 468.0 | 792.0                | 871.0 | .. *                | .. *  | .. *              | .. *  | 2195.0                | 1470.0 | 32.0                      | -     | 18.5                    | 31.7  |                         |       | -             | -     | 32.0                 | 58.0  | 453.0                 | 682.0 |
| Average | 12.2                 | 15.1  | 25.5                 | 28.1  | .. *                | .. *  | .. *              | .. *  | 70.8                  | 47.4   | 1.0                       | -     | 0.6                     | 1.0   |                         |       |               |       |                      |       | 14.6                  | 22.0  |
|         | 13.7                 |       | 26.8                 |       | 0.0 *               |       | 0.0 *             |       | 59.1                  |        | 0.5                       |       | 0.8                     |       |                         |       | 0.0           |       | 90.0                 |       | 18.3                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8

Local River/Basin : Seonath

Station Name : Kotni

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |         |                   |         |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|---------|-------------------|---------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |         | Wet Bulb Temp. °C |         | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30   | 08:30             | 17:30   | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 17.0  |                      | 27.0  |                     | ..      |                   | ..      |                       | 89.0   |                           | -     |                         | 0.6   |                         | SW    |               | -     |                      | 2.0   |                       | 22.0  |
| 1       | 11.0                 | 16.0  | 24.0                 | 28.0  | 17.0                | 23.0    | 13.0              | 17.0    | 61.0                  | 52.0   | 2.0                       | -     | 1.6                     | 1.3   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 20.0  |
| 2       | 12.0                 | 16.0  | 25.0                 | 27.0  | 18.0                | 23.0    | 14.0              | 15.0    | 62.0                  | 45.0   | 2.0                       | -     | 0.9                     | 0.4   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 15.0                  | 21.0  |
| 3       | 12.0                 | 15.0  | 24.0                 | 27.0  | 16.0                | 24.0    | 12.0              | 15.0    | 54.0                  | 33.0   | 2.0                       | 2.0   | 0.7                     | 0.9   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 14.0                  | 21.0  |
| 4       | 11.0                 | 12.0  | 25.0                 | 27.0  | 13.0                | 21.0    | 11.0              | 16.0    | 77.0                  | 49.0   | -                         | -     | 0.8                     | 1.4   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 12.0                  | 20.0  |
| 5       | 11.0                 | 13.0  | 25.0                 | 27.0  | 13.0                | 23.0    | 11.0              | 16.0    | 77.0                  | 45.0   | -                         | -     | 0.7                     | 1.8   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 12.0                  | 20.0  |
| 6       | 11.0                 | 12.0  | 24.0                 | 27.0  | 13.0                | 23.0    | 10.0              | 16.0    | 66.0                  | 45.0   | -                         | -     | 1.5                     | 2.2   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 12.0                  | 20.0  |
| 7       | 12.0                 | 15.0  | 24.0                 | 24.0  | 16.0                | 23.0    | 12.0              | 15.0    | 59.0                  | 45.0   | 2.0                       | -     | 2.2                     | 0.6   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 20.0  |
| 8       | 11.0                 | 12.0  | 24.0                 | 25.0  | 14.0                | 23.0    | 10.0              | 15.0    | 57.0                  | 38.0   | 2.0                       | -     | 0.3                     | 0.6   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 20.0  |
| 9       | 10.0                 | 12.0  | 24.0                 | 26.0  | 14.0                | 21.0    | 11.0              | 16.0    | 67.0                  | 49.0   | 2.0                       | -     | 0.3                     | 1.2   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 12.0                  | 20.0  |
| 10      | 10.0                 | 12.0  | 23.0                 | 27.0  | 14.0                | 23.0    | 10.0              | 17.0    | 57.0                  | 35.0   | 2.0                       | -     | 1.3                     | 2.0   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 12.0                  | 21.0  |
| 11      | 11.0                 | 12.0  | 24.0                 | 27.0  | 13.0                | 25.0    | 11.0              | 17.0    | 77.0                  | 41.0   | -                         | -     | 0.4                     | 1.2   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 15.0                  | 21.0  |
| 12      | 11.0                 | 12.0  | 24.0                 | 29.0  | 14.0                | 25.0    | 12.0              | 18.0    | 78.0                  | 41.0   | 2.0                       | -     | 0.9                     | 1.0   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 15.0                  | 21.0  |
| 13      | 12.0                 | 14.0  | 23.0                 | 29.0  | 15.0                | 26.0    | 13.0              | 19.0    | 78.0                  | 45.0   | 2.0                       | -     | 2.1                     | 0.4   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 15.0                  | 23.0  |
| 14      | 14.0                 | 16.0  | 24.0                 | 30.0  | 18.0                | 27.0    | 15.0              | 17.0    | 71.0                  | 45.0   | -                         | -     | 0.7                     | 1.7   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 15.0                  | 24.0  |
| 15      | 14.0                 | 18.0  | 26.0                 | 29.0  | 18.0                | 27.0    | 15.0              | 17.0    | 71.0                  | 32.0   | 2.0                       | 2.0   | 0.9                     | 2.9   | NE                      | SW    | -             | -     | 1.0                  | 3.0   | 15.0                  | 24.0  |
| 16      | 10.0                 | 17.0  | 28.0                 | 29.0  | 13.0                | 26.0    | 11.0              | 18.0    | 77.0                  | 36.0   | -                         | -     | 2.0                     | 1.1   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 23.0  |
| 17      | 10.0                 | 13.0  | 23.0                 | 29.0  | 15.0                | 25.0    | 11.0              | 18.0    | 58.0                  | 47.0   | 2.0                       | -     | 0.5                     | 2.0   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 22.0  |
| 18      | 11.0                 | 14.0  | 26.0                 | 29.0  | 15.0                | 25.0    | 11.0              | 15.0    | 58.0                  | 47.0   | -                         | -     | 0.6                     | 1.0   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 22.0  |
| 19      | 10.0                 | 17.0  | 26.0                 | 28.0  | 11.0                | 23.0    | 9.0               | 16.0    | 75.0                  | 38.0   | 2.0                       | -     | 0.6                     | 0.6   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 12.0                  | 22.0  |
| 20      | 10.0                 | 19.0  | 24.0                 | 29.0  | 17.0                | 25.0    | 13.0              | 16.0    | 61.0                  | 35.0   | 2.0                       | -     | 0.3                     | 0.4   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 13.0                  | 22.0  |
| 21      | 10.0                 | 18.0  | 26.0                 | 28.0  | 17.0                | 25.0    | 12.0              | 17.0    | 52.0                  | 35.0   | -                         | -     | 0.7                     | 1.7   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 22      | 10.0                 | 19.0  | 26.0                 | 29.0  | 17.0                | 25.0    | 13.0              | 18.0    | 61.0                  | 41.0   | -                         | -     | 0.5                     | 0.7   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 23      | 12.0                 | 18.0  | 27.0                 | 29.0  | 17.0                | 25.0    | 14.0              | 18.0    | 70.0                  | 61.0   | 2.0                       | -     | 0.5                     | 1.9   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 15.0                  | 23.0  |
| 24      | 14.0                 | 15.0  | 27.0                 | 29.0  | 16.0                | 25.0    | 13.0              | 17.0    | 69.0                  | 32.0   | -                         | 2.0   | 0.5                     | 0.9   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 16.0                  | 24.0  |
| 25      | 11.0                 | 13.0  | 28.0                 | 29.0  | 14.0                | 25.0    | 12.0              | 16.0    | 78.0                  | 35.0   | 2.0                       | -     | 0.4                     | 3.7   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 14.0                  | 23.0  |
| 26      | 10.0                 | 13.0  | 26.0                 | 28.0  | 14.0                | 23.0    | 10.0              | 16.0    | 57.0                  | 45.0   | -                         | -     | 1.1                     | 0.9   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 22.0  |
| 27      | 10.0                 | 17.0  | 27.0                 | 28.0  | 17.0                | 25.0    | 14.0              | 15.0    | 70.0                  | 28.0   | 2.0                       | -     | 0.4                     | 1.3   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 23.0  |
| 28      | 10.0                 | 15.0  | 27.0                 | 29.0  | 17.0                | 26.0    | 12.0              | 16.0    | 61.0                  | 30.0   | 2.0                       | -     | 1.1                     | 0.8   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 23.0  |
| 29      | 10.0                 | 17.0  | 27.0                 | 29.0  | 18.0                | 26.0    | 13.0              | 16.0    | 53.0                  | 30.0   | 2.0                       | 2.0   | 0.6                     | 1.7   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 30      | 11.0                 | 17.0  | 27.0                 | 30.0  | 18.0                | 27.0    | 14.0              | 17.0    | 54.0                  | 32.0   | 2.0                       | -     | 1.7                     | 1.2   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 31      | 11.0                 |       | 28.0                 |       | 16.0                |         | 13.0              |         | 69.0                  |        | 2.0                       |       | 1.1                     |       | NE                      |       | -             |       | 1.0                  |       | 14.0                  |       |
| Total   | 343.0                | 466.0 | 786.0                | 868.0 | 478.0               | 733.0 * | 375.0             | 495.0 * | 2035.0                | 1301.0 | 40.0                      | 8.0   | 27.9                    | 40.1  |                         |       | -             | -     | 34.0                 | 61.0  | 425.0                 | 683.0 |
| Average | 11.1                 | 15.0  | 25.4                 | 28.0  | 15.4                | 24.4 *  | 12.1              | 16.5 *  | 65.6                  | 42.0   | 1.3                       | 0.3   | 0.9                     | 1.3   |                         |       |               |       |                      |       | 13.7                  | 22.0  |
|         | 13.0                 |       | 26.7                 |       | 19.9 *              |         | 14.3 *            |         | 53.8                  |        | 0.8                       |       | 1.1                     |       |                         |       | 0.0           |       | 95.0                 |       | 17.9                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LpOPM   |                      | 17.0  |                      | 30.0  |                     | 27.0  |                   | 17.0  |                       | 32.0   |                           | -     |                         | 1.2   |                         | SW    |               | -     |                      | 2.0   |                       | 24.0  |
| 1       | 12.0                 | 16.0  | 28.0                 | 32.0  | 18.0                | 28.0  | 13.0              | 17.0  | 53.0                  | 80.0   | 2.0                       | -     | 0.5                     | 3.6   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 2       | 12.0                 | 16.0  | 26.0                 | 30.0  | 18.0                | 28.0  | 13.0              | 18.0  | 53.0                  | 79.0   | -                         | -     | 1.3                     | 3.2   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 26.0  |
| 3       | 14.0                 | 16.0  | 30.0                 | 32.0  | 16.0                | 28.0  | 13.0              | 18.0  | 69.0                  | 33.0   | 2.0                       | 2.0   | 1.4                     | 1.3   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 16.0                  | 24.0  |
| 4       | 15.0                 | 20.0  | 32.0                 | 33.0  | 20.0                | 29.0  | 16.0              | 18.0  | 64.0                  | 29.0   | 2.0                       | -     | 1.6                     | 0.7   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 17.0                  | 26.0  |
| 5       | 15.0                 | 17.0  | 29.0                 | 31.0  | 19.0                | 29.0  | 15.0              | 18.0  | 63.0                  | 29.0   | 2.0                       | -     | 2.3                     | 1.6   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 17.0                  | 27.0  |
| 6       | 17.0                 | 20.0  | 30.0                 | 32.0  | 22.0                | 30.0  | 18.0              | 20.0  | 64.0                  | 36.0   | 2.0                       | -     | 0.7                     | 1.0   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 19.0                  | 27.0  |
| 7       | 17.0                 | 18.0  | 31.0                 | 32.0  | 19.0                | 23.0  | 17.0              | 20.0  | 81.0                  | 75.0   | 2.0                       | -     | 0.7                     | 0.5   | NW                      | SW    | -             | -     | 1.0                  | 1.0   | 19.0                  | 22.0  |
| 8       | 16.0                 | 18.0  | 24.0                 | 32.0  | 18.0                | 28.0  | 17.0              | 19.0  | 90.0                  | 39.0   | -                         | 2.0   | 0.5                     | 0.9   | NW                      | SW    | -             | -     | 1.0                  | 1.0   | 18.0                  | 26.0  |
| 9       | 16.0                 | 20.0  | 30.0                 | 32.0  | 20.0                | 29.0  | 17.0              | 18.0  | 73.0                  | 29.0   | -                         | 2.0   | 1.5                     | 0.7   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 26.0  |
| 10      | 16.0                 | 17.0  | 31.0                 | 33.0  | 19.0                | 26.0  | 15.0              | 17.0  | 63.0                  | 36.0   | 2.0                       | 2.0   | 1.0                     | 0.4   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 18.0                  | 24.0  |
| 11      | 15.0                 | 16.0  | 28.0                 | 30.0  | 20.0                | 22.0  | 16.0              | 18.0  | 81.0                  | 39.0   | 2.0                       | 2.0   | 1.5                     | 0.1   | NW                      | NE    | -             | -     | 1.0                  | 2.5   | 16.0                  | 20.0  |
| 12      | 14.0                 | 15.0  | 25.0                 | 27.0  | 18.0                | 20.0  | 17.0              | 18.0  | 92.0                  | 51.0   | 2.0                       | 2.0   | 1.6                     | 0.2   | NE                      | SW    | -             | 5.2   | 1.0                  | 2.0   | 15.0                  | 20.0  |
| 13      | 16.0                 | 17.0  | 26.0                 | 28.0  | 19.0                | 25.0  | 18.0              | 20.0  | 97.0                  | 60.0   | 2.0                       | 2.0   | 2.0                     | 1.6   | NE                      | SW    | -             | -     | 0.5                  | 2.0   | 18.0                  | 20.0  |
| 14      | 15.0                 | 16.0  | 24.0                 | 25.0  | 17.0                | 24.0  | 16.0              | 20.0  | 90.0                  | 68.0   | 2.0                       | -     | 1.5                     | 1.0   | NE                      | SW    | 11.6          | -     | 0.4                  | 1.4   | 21.0                  | 22.0  |
| 15      | 14.0                 | 15.0  | 25.0                 | 27.0  | 16.0                | 26.0  | 13.0              | 17.0  | 69.0                  | 36.0   | -                         | 2.0   | 0.2                     | 0.6   | NE                      | NW    | 8.0           | -     | 0.5                  | 1.0   | 15.0                  | 23.0  |
| 16      | 13.0                 | 15.0  | 27.0                 | 29.0  | 16.0                | 27.0  | 14.0              | 18.0  | 79.0                  | 38.0   | 2.0                       | -     | 1.5                     | 0.7   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 16.0                  | 25.0  |
| 17      | 15.0                 | 19.0  | 28.0                 | 29.0  | 17.0                | 28.0  | 16.0              | 17.0  | 90.0                  | 90.0   | -                         | -     | 0.7                     | 0.6   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 16.0                  | 26.0  |
| 18      | 15.0                 | 16.0  | 29.0                 | 30.0  | 20.0                | 22.0  | 16.0              | 18.0  | 64.0                  | 66.0   | 2.0                       | -     | 1.0                     | 1.1   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 18.0                  | 25.0  |
| 19      | 15.0                 | 17.0  | 31.0                 | 33.0  | 19.0                | 28.0  | 15.0              | 19.0  | 63.0                  | 51.0   | 2.0                       | -     | 1.3                     | 1.1   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 18.0                  | 25.0  |
| 20      | 17.0                 | 21.0  | 30.0                 | 32.0  | 23.0                | 30.0  | 17.0              | 20.0  | 52.0                  | 36.0   | -                         | -     | 1.5                     | 0.7   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 20.0                  | 26.0  |
| 21      | 16.0                 | 18.0  | 27.0                 | 35.0  | 20.0                | 29.0  | 16.0              | 22.0  | 64.0                  | 52.0   | 2.0                       | -     | 0.7                     | 0.8   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 24.0  |
| 22      | 14.0                 | 16.0  | 33.0                 | 34.0  | 19.0                | 31.0  | 15.0              | 19.0  | 63.0                  | 51.0   | -                         | -     | 0.7                     | 1.0   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 17.0                  | 30.0  |
| 23      | 16.0                 | 20.0  | 32.0                 | 35.0  | 23.0                | 32.0  | 17.0              | 20.0  | 52.0                  | 32.0   | -                         | -     | 0.7                     | 2.7   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 17.0                  | 30.0  |
| 24      | 17.0                 | 21.0  | 34.0                 | 35.0  | 23.0                | 32.0  | 19.0              | 21.0  | 67.0                  | 34.0   | -                         | -     | 1.2                     | 1.1   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 21.0                  | 31.0  |
| 25      | 18.0                 | 21.0  | 31.0                 | 34.0  | 25.0                | 32.0  | 20.0              | 21.0  | 61.0                  | 34.0   | 2.0                       | -     | 0.8                     | 2.1   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 31.0  |
| 26      | 19.0                 | 22.0  | 32.0                 | 35.0  | 23.0                | 32.0  | 19.0              | 21.0  | 67.0                  | 34.0   | 2.0                       | -     | 0.7                     | 0.8   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 31.0  |
| 27      | 17.0                 | 25.0  | 34.0                 | 35.0  | 30.0                | 32.0  | 20.0              | 21.0  | 36.0                  | 34.0   | -                         | -     | 1.3                     | 2.2   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 20.0                  | 31.0  |
| 28      | 16.0                 |       | 33.0                 |       | 25.0                |       | 19.0              |       | 54.0                  |        | -                         |       | 1.3                     |       | NE                      |       | -             |       | 3.0                  |       | 20.0                  |       |
| Total   | 432.0                | 505.0 | 820.0                | 882.0 | 562.0               | 777.0 | 457.0             | 530.0 | 1914.0                | 1303.0 | 34.0                      | 16.0  | 31.7                    | 33.5  |                         |       | 19.6          | 5.2   | 32.4                 | 54.9  | 503.0                 | 716.0 |
| Average | 15.4                 | 18.0  | 29.3                 | 31.5  | 20.1                | 27.8  | 16.3              | 18.9  | 68.4                  | 46.5   | 1.2                       | 0.6   | 1.1                     | 1.2   |                         |       |               |       |                      |       | 18.0                  | 25.6  |
|         | 16.7                 |       | 30.4                 |       | 23.9                |       | 17.6              |       | 57.4                  |        | 0.9                       |       | 1.2                     |       |                         |       | 24.8          |       | 87.3                 |       | 21.8                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8

Local River/Basin : Seonath

Station Name : Kotni

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 23.0  |                      | 35.0   |                     | 32.0   |                   | 20.0  |                       | 29.0  |                           | -     |                         | 3.4   |                         | SW    |               | -     |                      | 4.0   |                       | 31.0  |
| 1       | 16.0                 | 23.0  | 34.0                 | 35.0   | 29.0                | 34.0   | 17.0              | 20.0  | 24.0                  | 23.0  | 2.0                       | -     | 0.6                     | 1.3   | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 21.0                  | 32.0  |
| 2       | 18.0                 | 24.0  | 34.0                 | 35.0   | 26.0                | 37.0   | 19.0              | 20.0  | 49.0                  | 50.0  | -                         | -     | 0.5                     | 1.3   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 21.0                  | 32.0  |
| 3       | 19.0                 | 24.0  | 34.0                 | 36.0   | 28.0                | 34.0   | 20.0              | 21.0  | 51.0                  | 23.0  | -                         | 2.0   | 0.8                     | 1.5   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 21.0                  | 31.0  |
| 4       | 20.0                 | 22.0  | 33.0                 | 35.0   | 27.0                | 32.0   | 19.0              | 19.0  | 44.0                  | 24.0  | 2.0                       | -     | 1.4                     | 2.2   | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 22.0                  | 31.0  |
| 5       | 19.0                 | 20.0  | 34.0                 | 36.0   | 26.0                | 32.0   | 17.0              | 20.0  | 36.0                  | 34.0  | -                         | -     | 1.1                     | 1.9   | SW                      | NE    | -             | -     | 2.0                  | 3.0   | 21.0                  | 29.0  |
| 6       | 18.0                 | 21.0  | 34.0                 | 35.0   | 24.0                | 32.0   | 19.0              | 20.0  | 60.0                  | 29.0  | -                         | -     | 1.3                     | 1.0   | NE                      | NE    | -             | -     | 2.0                  | 4.0   | 20.0                  | 30.0  |
| 7       | 18.0                 | 24.0  | 33.0                 | 35.0   | 26.0                | 32.0   | 20.0              | 20.0  | 55.0                  | 29.0  | -                         | -     | 1.3                     | 1.3   | NE                      | NE    | -             | -     | 2.0                  | 3.0   | 20.0                  | 30.0  |
| 8       | 18.0                 | 22.0  | 32.0                 | 34.0   | 24.0                | 32.0   | 17.0              | 19.0  | 53.0                  | 24.0  | 2.0                       | 2.0   | 0.8                     | 2.1   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 20.0                  | 28.0  |
| 9       | 20.0                 | 22.0  | 32.0                 | 33.0   | 23.0                | 32.0   | 16.0              | 21.0  | 45.0                  | 34.0  | -                         | -     | 0.7                     | 2.7   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 20.0                  | 28.0  |
| 10      | 18.0                 | 24.0  | 32.0                 | 34.0   | 27.0                | 32.0   | 20.0              | 20.0  | 50.0                  | 29.0  | -                         | -     | 2.3                     | 2.7   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 20.0                  | 31.0  |
| 11      | 22.0                 | 26.0  | 35.0                 | 36.0   | 27.0                | 32.0   | 19.0              | 21.0  | 44.0                  | 34.0  | -                         | 2.0   | 0.4                     | 2.4   | SW                      | NW    | -             | -     | 2.0                  | 3.0   | 24.0                  | 29.0  |
| 12      | 21.0                 | 26.0  | 34.0                 | 35.0   | 29.0                | 32.0   | 20.0              | 21.0  | 46.0                  | 29.0  | -                         | -     | 1.8                     | 3.3   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 22.0                  | 31.0  |
| 13      | 22.0                 | 26.0  | 36.0                 | 38.0   | 28.0                | 34.0   | 20.0              | 21.0  | 51.0                  | 23.0  | -                         | -     | 2.0                     | 3.9   | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 22.0                  | 31.0  |
| 14      | 19.0                 | 24.0  | 38.0                 | 40.0   | 27.0                | 34.0   | 20.0              | 21.0  | 50.0                  | 27.0  | -                         | -     | 1.0                     | 1.3   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 20.0                  | 32.0  |
| 15      | 23.0                 | 23.0  | 39.0                 | 39.0   | 28.0                | 32.0   | 20.0              | 21.0  | 54.0                  | 34.0  | 2.0                       | -     | 2.1                     | 3.4   | SW                      | SW    | -             | 1.2   | 3.0                  | 4.0   | 20.0                  | 29.0  |
| 16      | 21.0                 | 22.0  | 39.0                 | 39.0   | 23.0                | 32.0   | 19.0              | 20.0  | 67.0                  | 82.0  | 2.0                       | -     | 1.9                     | 2.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 21.0                  | 22.0  |
| 17      | 18.0                 | 19.0  | 34.0                 | 39.0   | 26.0                | 32.0   | 21.0              | 22.0  | 69.0                  | 34.0  | -                         | 2.0   | 1.1                     | 2.2   | SW                      | NW    | -             | -     | 2.0                  | 3.0   | 20.0                  | 31.0  |
| 18      | 18.0                 | 26.0  | 32.0                 | 36.0   | 28.0                | 32.0   | 20.0              | 22.0  | 57.0                  | 29.0  | -                         | -     | 1.0                     | 4.2   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 21.0                  | 32.0  |
| 19      | 19.0                 | 20.0  | 36.0                 | 37.0   | 28.0                | 34.0   | 19.0              | 20.0  | 39.0                  | 23.0  | -                         | -     | 2.5                     | 2.9   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 21.0                  | 32.0  |
| 20      | 18.0                 | 25.0  | 37.0                 | 38.0   | 26.0                | 34.0   | 18.0              | 21.0  | 42.0                  | 27.0  | -                         | -     | 1.4                     | 1.5   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 22.0                  | 31.0  |
| 21      | 21.0                 | 30.0  | 38.0                 | 38.0   | 26.0                | 34.0   | 18.0              | 21.0  | 42.0                  | 27.0  | -                         | -     | 0.6                     | 1.3   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 22.0                  | 31.0  |
| 22      | 20.0                 | 26.0  | 37.0                 | 40.0   | 28.0                | 36.0   | 20.0              | 20.0  | 45.0                  | 18.0  | -                         | -     | 0.8                     | 3.0   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 32.0  |
| 23      | 19.0                 | 30.0  | 39.0                 | 39.0   | 27.0                | 36.0   | 19.0              | 20.0  | 44.0                  | 18.0  | -                         | -     | 2.2                     | 1.6   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 23.0                  | 31.0  |
| 24      | 18.0                 | 24.0  | 39.0                 | 40.0   | 26.0                | 34.0   | 16.0              | 20.0  | 30.0                  | 23.0  | 2.0                       | -     | 2.7                     | 1.6   | SW                      | NE    | -             | -     | 3.0                  | 4.0   | 20.0                  | 33.0  |
| 25      | 19.0                 | 27.0  | 40.0                 | 42.0   | 29.0                | 36.0   | 18.0              | 20.0  | 42.0                  | 18.0  | -                         | -     | 1.4                     | 0.8   | SW                      | NE    | -             | -     | 3.0                  | 4.0   | 22.0                  | 32.0  |
| 26      | 18.0                 | 24.0  | 38.0                 | 39.0   | 26.0                | 34.0   | 17.0              | 19.0  | 36.0                  | 19.0  | -                         | -     | 1.7                     | 1.2   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 20.0                  | 31.0  |
| 27      | 18.0                 | 26.0  | 39.0                 | 40.0   | 28.0                | 34.0   | 20.0              | 20.0  | 45.0                  | 23.0  | -                         | -     | 1.4                     | 0.8   | SW                      | NW    | -             | -     | 2.0                  | 4.0   | 20.0                  | 32.0  |
| 28      | 18.0                 | 25.0  | 39.0                 | 41.0   | 28.0                | 36.0   | 18.0              | 21.0  | 33.0                  | 22.0  | -                         | -     | 2.0                     | 0.7   | SW                      | SW    | -             | -     | 2.0                  | 6.0   | 20.0                  | 33.0  |
| 29      | 20.0                 | 25.0  | 40.0                 | 40.0   | 26.0                | 36.0   | 18.0              | 22.0  | 42.0                  | 26.0  | -                         | -     | 0.7                     | 0.6   | NW                      | SW    | -             | -     | 3.0                  | 6.0   | 22.0                  | 32.0  |
| 30      | 20.0                 | 25.0  | 40.0                 | 41.0   | 25.0                | 36.0   | 17.0              | 19.0  | 41.0                  | 49.0  | 2.0                       | -     | 3.4                     | 1.1   | SW                      | SW    | -             | -     | 4.0                  | 5.0   | 21.0                  | 32.0  |
| 31      | 20.0                 |       | 40.0                 |        | 30.0                |        | 23.0              |       | 53.0                  |       | -                         |       | 1.1                     |       | SW                      |       | -             |       | 2.0                  |       | 21.0                  |       |
| Total   | 596.0                | 748.0 | 1121.0               | 1160.0 | 829.0               | 1041.0 | 584.0             | 632.0 | 1439.0                | 913.0 | 14.0                      | 8.0   | 44.0                    | 61.2  |                         |       | -             | 1.2   | 70.0                 | 119.0 | 656.0                 | 952.0 |
| Average | 19.2                 | 24.1  | 36.2                 | 37.4   | 26.7                | 33.6   | 18.8              | 20.4  | 46.4                  | 29.5  | 0.5                       | 0.3   | 1.4                     | 2.0   |                         |       |               |       |                      |       | 21.2                  | 30.7  |
|         | 21.7                 |       | 36.8                 |        | 30.2                |        | 19.6              |       | 37.9                  |       | 0.4                       |       | 1.7                     |       |                         |       | 1.2           |       | 189.0                |       | 25.9                  |       |

## Twice Daily Climatic Data

Station Code : EMP00P8  
Local River/Basin : Seonath

Station Name : Kotni  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 20.0  |                      | 41.0   |                     | 38.0   |                   | 24.0  |                       | 70.0   |                           | 4.0   |                         | 4.6   |                         | NW    |               | -     |                      | 4.0   |                       | 31.0   |
| 1       | 20.0                 | 27.0  | 40.0                 | 41.0   | 29.0                | 30.0   | 21.0              | 28.0  | 92.0                  | 85.0   | -                         | 2.0   | 1.7                     | 3.6   | SW                      | NE    | -             | -     | 2.0                  | 4.0   | 21.0                  | 31.0   |
| 2       | 17.0                 | 27.0  | 36.0                 | 41.0   | 28.0                | 30.0   | 17.0              | 28.0  | 73.0                  | 85.0   | -                         | -     | 2.3                     | 1.9   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 20.0                  | 32.0   |
| 3       | 19.0                 | 26.0  | 36.0                 | 40.0   | 28.0                | 36.0   | 21.0              | 22.0  | 51.0                  | 26.0   | -                         | -     | 1.0                     | 4.1   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 22.0                  | 33.0   |
| 4       | 21.0                 | 21.0  | 39.0                 | 40.0   | 30.0                | 36.0   | 21.0              | 22.0  | 42.0                  | 26.0   | -                         | -     | 0.6                     | 3.1   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 25.0                  | 35.0   |
| 5       | 25.0                 | 28.0  | 40.0                 | 41.0   | 30.0                | 32.0   | 21.0              | 22.0  | 36.0                  | 29.0   | -                         | 2.0   | 1.1                     | 2.2   | SW                      | NE    | -             | -     | 2.0                  | 6.0   | 24.0                  | 33.0   |
| 6       | 25.0                 | 26.0  | 40.0                 | 41.0   | 30.0                | 32.0   | 22.0              | 23.0  | 53.0                  | 39.0   | 2.0                       | -     | 2.0                     | 3.1   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 25.0                  | 32.0   |
| 7       | 24.0                 | 28.0  | 40.0                 | 41.0   | 30.0                | 34.0   | 20.0              | 22.0  | 47.0                  | 23.0   | -                         | 2.0   | 1.9                     | 3.1   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 24.0                  | 31.0   |
| 8       | 23.0                 | 28.0  | 40.0                 | 42.0   | 28.0                | 32.0   | 20.0              | 22.0  | 55.0                  | 29.0   | -                         | -     | 3.5                     | 3.7   | NW                      | SW    | -             | -     | 3.0                  | 4.0   | 25.0                  | 31.0   |
| 9       | 23.0                 | 28.0  | 37.0                 | 39.0   | 30.0                | 36.0   | 21.0              | 22.0  | 47.0                  | 26.0   | -                         | -     | 3.7                     | 4.4   | NW                      | SW    | -             | -     | 4.0                  | 6.0   | 25.0                  | 32.0   |
| 10      | 23.0                 | 29.0  | 38.0                 | 40.0   | 30.0                | 36.0   | 20.0              | 22.0  | 36.0                  | 26.0   | -                         | -     | 2.7                     | 4.4   | SE                      | NE    | -             | -     | 4.0                  | 6.0   | 25.0                  | 35.0   |
| 11      | 25.0                 | 29.0  | 40.0                 | 41.0   | 32.0                | 36.0   | 22.0              | 22.0  | 39.0                  | 26.0   | -                         | 2.0   | 2.2                     | 2.7   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 25.0                  | 34.0   |
| 12      | 25.0                 | 29.0  | 39.0                 | 41.0   | 30.0                | 32.0   | 20.0              | 21.0  | 36.0                  | 41.0   | 2.0                       | -     | 2.1                     | 3.5   | NE                      | SW    | -             | -     | 4.0                  | 6.0   | 25.0                  | 33.0   |
| 13      | 21.0                 | 23.0  | 35.0                 | 38.0   | 28.0                | 28.0   | 22.0              | 25.0  | 57.0                  | 77.0   | -                         | -     | 1.7                     | 2.4   | SW                      | SW    | -             | 16.0  | 1.0                  | 4.0   | 25.0                  | 29.0   |
| 14      | 23.0                 | 25.0  | 37.0                 | 38.0   | 28.0                | 30.0   | 22.0              | 22.0  | 57.0                  | 47.0   | 2.0                       | 2.0   | 4.3                     | 3.1   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 23.0                  | 32.0   |
| 15      | 21.0                 | 25.0  | 37.0                 | 38.0   | 30.0                | 30.0   | 24.0              | 24.0  | 59.0                  | 53.0   | -                         | -     | 2.0                     | 1.8   | SW                      | SW    | 17.0          | -     | 3.0                  | 2.0   | 25.0                  | 34.0   |
| 16      | 20.0                 | 25.0  | 36.0                 | 40.0   | 30.0                | 36.0   | 24.0              | 27.0  | 59.0                  | 48.0   | -                         | -     | 1.5                     | 4.0   | SW                      | NW    | 23.8          | -     | 1.8                  | 4.0   | 25.0                  | 35.0   |
| 17      | 25.0                 | 25.0  | 39.0                 | 40.0   | 32.0                | 36.0   | 25.0              | 27.0  | 55.0                  | 26.0   | -                         | -     | 4.5                     | 2.5   | SW                      | NW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 18      | 25.0                 | 32.0  | 40.0                 | 42.0   | 32.0                | 38.0   | 22.0              | 26.0  | 61.0                  | 20.0   | -                         | 2.0   | 2.6                     | 1.8   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 27.0                  | 35.0   |
| 19      | 24.0                 | 32.0  | 38.0                 | 41.0   | 32.0                | 36.0   | 22.0              | 24.0  | 49.0                  | 26.0   | -                         | -     | 2.1                     | 2.0   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 25.0                  | 36.0   |
| 20      | 23.0                 | 30.0  | 40.0                 | 42.0   | 30.0                | 40.0   | 21.0              | 22.0  | 47.0                  | 13.0   | -                         | 2.0   | 2.1                     | 4.4   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 25.0                  | 35.0   |
| 21      | 26.0                 | 29.0  | 41.0                 | 42.0   | 32.0                | 36.0   | 22.0              | 23.0  | 44.0                  | 26.0   | -                         | 2.0   | 2.3                     | 3.9   | SW                      | SW    | -             | -     | 2.0                  | 6.0   | 26.0                  | 35.0   |
| 22      | 25.0                 | 28.0  | 43.0                 | 44.0   | 34.0                | 36.0   | 24.0              | 26.0  | 41.0                  | 43.0   | -                         | -     | 3.0                     | 2.1   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 23      | 25.0                 | 32.0  | 42.0                 | 44.0   | 32.0                | 36.0   | 20.0              | 22.0  | 29.0                  | 18.0   | -                         | -     | 1.8                     | 1.6   | NW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 24      | 25.0                 | 32.0  | 41.0                 | 43.0   | 32.0                | 36.0   | 22.0              | 24.0  | 39.0                  | 38.0   | -                         | -     | 0.8                     | 2.0   | NW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 25      | 24.0                 | 32.0  | 40.0                 | 41.0   | 32.0                | 38.0   | 22.0              | 24.0  | 41.0                  | 28.0   | -                         | 2.0   | 1.3                     | 2.7   | NW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 26      | 25.0                 | 33.0  | 40.0                 | 42.0   | 32.0                | 36.0   | 22.0              | 24.0  | 39.0                  | 26.0   | 2.0                       | -     | 2.5                     | 3.2   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 27      | 22.0                 | 30.0  | 41.0                 | 42.0   | 32.0                | 36.0   | 22.0              | 24.0  | 39.0                  | 26.0   | -                         | -     | 3.1                     | 4.8   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 35.0   |
| 28      | 31.0                 | 32.0  | 41.0                 | 42.0   | 32.0                | 38.0   | 24.0              | 26.0  | 61.0                  | 30.0   | -                         | 2.0   | 3.1                     | 3.8   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 35.0   |
| 29      | 27.0                 | 31.0  | 40.0                 | 42.0   | 32.0                | 40.0   | 22.0              | 24.0  | 49.0                  | 16.0   | 2.0                       | 2.0   | 3.1                     | 4.8   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 35.0   |
| 30      | 29.0                 |       | 41.0                 |        | 32.0                |        | 22.0              |       | 49.0                  |        | -                         |       | 3.3                     |       | SW                      |       | -             |       | 2.0                  |       | 27.0                  |        |
| Total   | 711.0                | 842.0 | 1177.0               | 1230.0 | 919.0               | 1046.0 | 650.0             | 714.0 | 1482.0                | 1092.0 | 10.0                      | 26.0  | 69.9                    | 95.3  |                         |       | 40.8          | 16.0  | 87.8                 | 146.0 | 748.0                 | 1009.0 |
| Average | 23.7                 | 28.1  | 39.2                 | 41.0   | 30.6                | 34.9   | 21.7              | 23.8  | 49.4                  | 36.4   | 0.3                       | 0.9   | 2.3                     | 3.2   |                         |       |               |       |                      |       | 24.9                  | 33.6   |
|         | 25.9                 |       | 40.1                 |        | 32.8                |        | 22.7              |       | 42.9                  |        | 0.6                       |       | 2.8                     |       |                         |       | 56.8          |       | 233.8                |       | 29.3                  |        |

## Twice Daily Climatic Data

Station Code : EMP00P8

Local River/Basin : Seonath

Station Name : Kotni

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 32.0  |                      | 45.0   |                     | 40.0   |                   | 24.0  |                       | 16.0  |                           | 2.0   |                         | 4.5   |                         | SW    |               | -     |                      | 4.0   |                       | 35.0   |
| 1       | 26.0                 | 32.0  | 44.0                 | 45.0   | 36.0                | 40.0   | 24.0              | 26.0  | 43.0                  | 23.0  | 2.0                       | 2.0   | 4.6                     | 4.5   | SW                      | NE    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 2       | 24.0                 | 30.0  | 44.0                 | 45.0   | 32.0                | 38.0   | 24.0              | 24.0  | 49.0                  | 26.0  | -                         | 2.0   | 4.1                     | 6.0   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 3       | 24.0                 | 25.0  | 41.0                 | 44.0   | 26.0                | 36.0   | 22.0              | 24.0  | 69.0                  | 36.0  | 2.0                       | -     | 3.2                     | 5.1   | NE                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 34.0   |
| 4       | 25.0                 | 28.0  | 37.0                 | 40.0   | 30.0                | 36.0   | 22.0              | 24.0  | 29.0                  | 34.0  | 2.0                       | 2.0   | 3.3                     | 7.5   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 25.0                  | 35.0   |
| 5       | 26.0                 | 31.0  | 39.0                 | 44.0   | 36.0                | 40.0   | 24.0              | 24.0  | 34.0                  | 23.0  | 2.0                       | -     | 3.9                     | 8.5   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 6       | 27.0                 | 33.0  | 39.0                 | 44.0   | 34.0                | 40.0   | 24.0              | 24.0  | 41.0                  | 23.0  | 2.0                       | 2.0   | 3.8                     | 8.1   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 27.0                  | 35.0   |
| 7       | 30.0                 | 33.0  | 42.0                 | 45.0   | 36.0                | 42.0   | 24.0              | 24.0  | 34.0                  | 19.0  | 2.0                       | -     | 3.9                     | 7.2   | SW                      | SW    | -             | -     | 6.0                  | 8.0   | 26.0                  | 35.0   |
| 8       | 29.0                 | 33.0  | 44.0                 | 45.0   | 36.0                | 40.0   | 22.0              | 24.0  | 34.0                  | 16.0  | 2.0                       | -     | 2.7                     | 12.1  | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 27.0                  | 35.0   |
| 9       | 29.0                 | 35.0  | 44.0                 | 45.0   | 36.0                | 40.0   | 22.0              | 25.0  | 38.0                  | 16.0  | -                         | -     | 1.5                     | 4.9   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 10      | 28.0                 | 32.0  | 45.0                 | 46.0   | 34.0                | 40.0   | 24.0              | 24.0  | 41.0                  | 23.0  | 2.0                       | -     | 2.8                     | 8.3   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0   |
| 11      | 26.0                 | 27.0  | 40.0                 | 41.0   | 36.0                | 39.0   | 22.0              | 26.0  | 43.0                  | 39.0  | 2.0                       | 2.0   | 2.6                     | 5.0   | NW                      | SW    | 6.4           | -     | 3.0                  | 2.0   | 28.0                  | 32.0   |
| 12      | 24.0                 | 25.0  | 39.0                 | 40.0   | 32.0                | 34.0   | 22.0              | 24.0  | 41.0                  | 39.0  | -                         | 2.0   | 2.3                     | 5.4   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 31.0   |
| 13      | 24.0                 | 31.0  | 42.0                 | 44.0   | 34.0                | 38.0   | 22.0              | 24.0  | 41.0                  | 20.0  | 2.0                       | -     | 4.6                     | 7.3   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 25.0                  | 35.0   |
| 14      | 27.0                 | 28.0  | 40.0                 | 41.0   | 34.0                | 38.0   | 22.0              | 25.0  | 46.0                  | 20.0  | 2.0                       | 2.0   | 2.5                     | 6.2   | SW                      | SW    | -             | -     | 2.0                  | 6.0   | 25.0                  | 34.0   |
| 15      | 23.0                 | 28.0  | 40.0                 | 42.0   | 30.0                | 38.0   | 24.0              | 24.0  | 59.0                  | 28.0  | -                         | -     | 2.6                     | 8.0   | SW                      | SW    | 5.6           | -     | 1.6                  | 6.0   | 25.0                  | 33.0   |
| 16      | 26.0                 | 28.0  | 40.0                 | 42.0   | 30.0                | 32.0   | 22.0              | 22.0  | 47.0                  | 39.0  | 2.0                       | -     | 1.9                     | 5.8   | SW                      | NE    | -             | -     | 4.0                  | 6.0   | 26.0                  | 31.0   |
| 17      | 26.0                 | 28.0  | 40.0                 | 42.0   | 32.0                | 32.0   | 22.0              | 22.0  | 39.0                  | 39.0  | 2.0                       | -     | 1.5                     | 6.8   | SW                      | SW    | -             | -     | 4.0                  | 8.0   | 26.0                  | 33.0   |
| 18      | 26.0                 | 30.0  | 41.0                 | 42.0   | 32.0                | 40.0   | 24.0              | 26.0  | 61.0                  | 23.0  | 2.0                       | -     | 1.4                     | 6.4   | SE                      | SW    | -             | -     | 2.0                  | 8.0   | 26.0                  | 36.0   |
| 19      | 26.0                 | 32.0  | 42.0                 | 44.0   | 34.0                | 40.0   | 24.0              | 24.0  | 41.0                  | 23.0  | 2.0                       | -     | 3.1                     | 3.1   | SE                      | SW    | -             | -     | 6.0                  | 6.0   | 28.0                  | 35.0   |
| 20      | 29.0                 | 33.0  | 42.0                 | 44.0   | 34.0                | 40.0   | 24.0              | 26.0  | 51.0                  | 23.0  | 2.0                       | -     | 2.6                     | 5.1   | SW                      | SE    | -             | -     | 6.0                  | 6.0   | 28.0                  | 36.0   |
| 21      | 28.0                 | 30.0  | 42.0                 | 44.0   | 32.0                | 40.0   | 24.0              | 26.0  | 49.0                  | 30.0  | -                         | -     | 1.3                     | 4.1   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 29.0                  | 35.0   |
| 22      | 28.0                 | 33.0  | 40.0                 | 42.0   | 34.0                | 38.0   | 24.0              | 26.0  | 51.0                  | 28.0  | 2.0                       | 2.0   | 2.2                     | 6.6   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 29.0                  | 35.0   |
| 23      | 22.0                 | 32.0  | 42.0                 | 44.0   | 32.0                | 38.0   | 24.0              | 26.0  | 61.0                  | 36.0  | -                         | -     | 3.7                     | 2.5   | SE                      | SW    | 33.6          | -     | 1.6                  | 6.0   | 28.0                  | 35.0   |
| 24      | 29.0                 | 32.0  | 41.0                 | 42.0   | 32.0                | 40.0   | 24.0              | 26.0  | 49.0                  | 30.0  | 2.0                       | -     | 4.5                     | 6.6   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 28.0                  | 35.0   |
| 25      | 28.0                 | 31.0  | 41.0                 | 43.0   | 32.0                | 40.0   | 26.0              | 26.0  | 55.0                  | 30.0  | 2.0                       | -     | 1.7                     | 5.3   | SW                      | SE    | -             | -     | 4.0                  | 6.0   | 28.0                  | 35.0   |
| 26      | 26.0                 | 31.0  | 41.0                 | 42.0   | 32.0                | 38.0   | 26.0              | 26.0  | 61.0                  | 36.0  | -                         | -     | 4.1                     | 3.0   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 28.0                  | 36.0   |
| 27      | 26.0                 | 31.0  | 41.0                 | 42.0   | 32.0                | 38.0   | 24.0              | 26.0  | 49.0                  | 36.0  | 2.0                       | -     | 3.3                     | 3.1   | SW                      | SE    | -             | -     | 4.0                  | 6.0   | 28.0                  | 35.0   |
| 28      | 27.0                 | 34.0  | 40.0                 | 44.0   | 32.0                | 40.0   | 24.0              | 27.0  | 49.0                  | 34.0  | 2.0                       | 2.0   | 2.9                     | 7.1   | SW                      | SW    | -             | -     | 4.0                  | 8.0   | 28.0                  | 35.0   |
| 29      | 30.0                 | 34.0  | 42.0                 | 45.0   | 36.0                | 42.0   | 24.0              | 26.0  | 43.0                  | 19.0  | -                         | -     | 3.6                     | 6.8   | SE                      | SE    | -             | -     | 4.0                  | 6.0   | 29.0                  | 35.0   |
| 30      | 28.0                 | 34.0  | 44.0                 | 45.0   | 36.0                | 40.0   | 26.0              | 26.0  | 43.0                  | 30.0  | 2.0                       | -     | 0.9                     | 4.1   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 29.0                  | 36.0   |
| 31      | 28.0                 |       | 44.0                 |        | 30.0                |        | 24.0              |       | 59.0                  |       | -                         |       | 2.1                     |       | SW                      |       | -             |       | 2.0                  |       | 28.0                  |        |
| Total   | 825.0                | 956.0 | 1283.0               | 1343.0 | 1024.0              | 1197.0 | 730.0             | 771.0 | 1450.0                | 857.0 | 44.0                      | 20.0  | 89.2                    | 185.0 |                         |       | 45.6          | -     | 114.2                | 180.0 | 836.0                 | 1072.0 |
| Average | 26.6                 | 30.8  | 41.4                 | 43.3   | 33.0                | 38.6   | 23.5              | 24.9  | 46.8                  | 27.6  | 1.4                       | 0.6   | 2.9                     | 6.0   |                         |       |               |       |                      |       | 27.0                  | 34.6   |
|         | 28.7                 |       | 42.4                 |        | 35.8                |        | 24.2              |       | 37.2                  |       | 1.0                       |       | 4.4                     |       |                         |       | 45.6          |       | 294.2                |       | 30.8                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3

Local River/Basin : Kharun

Station Name : Pathardih

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 32.5  |                      | 37.5   |                       | ..    |                           | 2.0   |                         | 1.0   |                         | SW    |               | -     |                      | 2.0   |                       | 38.0   |
| 1       | 31.5                 | 33.5  | 36.5                 | 39.0   | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 6.1   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 30.0                  | 31.5   |
| 2       | 28.5                 | 31.5  | 38.5                 | 37.5   | ..                    | ..    | 2.0                       | 2.0   | 3.3                     | 2.3   | SW                      | SW    | -             | 1.0   | 1.0                  | 2.0   | 28.5                  | 36.5   |
| 3       | 30.0                 | 33.0  | 36.5                 | 38.5   | ..                    | ..    | 2.0                       | 2.0   | 4.9                     | 3.6   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 33.5                  | 37.0   |
| 4       | 29.5                 | 34.5  | 38.5                 | 38.0   | ..                    | ..    | 2.0                       | 2.0   | 5.4                     | 6.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 32.0                  | 39.0   |
| 5       | 31.0                 | 34.0  | 38.5                 | 38.5   | ..                    | ..    | 2.0                       | 2.0   | 4.6                     | 1.6   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 33.0                  | 37.5   |
| 6       | 29.5                 | 33.5  | 36.5                 | 37.0   | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 1.3   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 38.0   |
| 7       | 30.0                 | 31.5  | 34.0                 | 39.0   | ..                    | ..    | 2.0                       | 2.0   | 0.4                     | 3.3   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 31.0                  | 37.0   |
| 8       | 29.0                 | 32.0  | 37.0                 | 36.5   | ..                    | ..    | 2.0                       | 2.0   | 3.1                     | 0.3   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 31.0                  | 38.5   |
| 9       | 29.5                 | 29.0  | 35.5                 | 36.0   | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 2.2   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 32.5                  | 37.0   |
| 10      | 30.0                 | 30.5  | 36.0                 | 35.0   | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 2.2   | SW                      | SW    | 3.4           | 23.0  | 1.0                  | 1.0   | 30.0                  | 34.5   |
| 11      | 29.0                 | 30.0  | 32.5                 | 34.0   | ..                    | ..    | 2.0                       | 2.0   | 0.7                     | 2.2   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.0                  | 35.5   |
| 12      | 29.5                 | 29.5  | 33.5                 | 34.5   | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 0.6   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 32.5                  | 36.0   |
| 13      | 28.0                 | 30.0  | 30.0                 | 34.5   | ..                    | ..    | 2.0                       | -     | 0.7                     | 0.2   | SW                      | SW    | 2.2           | -     | 0.2                  | 2.0   | 32.0                  | 36.5   |
| 14      | 27.5                 | 30.5  | 33.0                 | 35.0   | ..                    | ..    | -                         | -     | 0.3                     | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 37.0   |
| 15      | 29.5                 | 30.0  | 36.0                 | 34.5   | ..                    | ..    | 2.0                       | 2.0   | 1.0                     | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 32.5                  | 37.0   |
| 16      | 29.5                 | 31.5  | 36.5                 | 34.0   | ..                    | ..    | 2.0                       | -     | 0.4                     | 0.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 32.5                  | 36.0   |
| 17      | 27.5                 | 32.0  | 36.0                 | 38.5   | ..                    | ..    | 2.0                       | 2.0   | 0.7                     | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 37.5   |
| 18      | 30.0                 | 30.5  | 37.5                 | 37.0   | ..                    | ..    | 2.0                       | 2.0   | 0.7                     | 0.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 36.5   |
| 19      | 30.0                 | 31.5  | 37.0                 | 36.0   | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 4.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 32.0                  | 36.0   |
| 20      | 28.0                 | 28.0  | 35.5                 | 36.0   | ..                    | ..    | 2.0                       | 4.0   | 2.9                     | 7.2   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 32.5                  | 34.5   |
| 21      | 30.0                 | 27.5  | 36.5                 | 33.0   | ..                    | ..    | 2.0                       | 6.0   | 2.7                     | 5.3   | SW                      | SW    | 31.4          | -     | 0.6                  | 2.0   | 31.0                  | 34.0   |
| 22      | 29.5                 | 27.0  | 36.0                 | 32.5   | ..                    | ..    | 2.0                       | 2.0   | 2.0                     | 1.8   | SW                      | SW    | 32.4          | -     | 1.4                  | 2.0   | 30.0                  | 34.5   |
| 23      | 28.5                 | 28.0  | 35.5                 | 32.0   | ..                    | ..    | 2.0                       | 2.0   | 2.2                     | 2.1   | SW                      | SW    | 2.6           | 1.6   | 0.6                  | -     | 29.5                  | 33.5   |
| 24      | 28.0                 | 27.5  | 32.5                 | 32.5   | ..                    | ..    | 2.0                       | 2.0   | 0.4                     | 3.1   | SW                      | SW    | -             | -     | 1.0                  | -     | 31.5                  | 34.0   |
| 25      | 26.0                 | 26.5  | 31.5                 | 30.0   | ..                    | ..    | 2.0                       | 2.0   | 3.3                     | 2.3   | SW                      | SW    | 17.4          | 2.2   | 1.6                  | 0.2   | 29.5                  | 33.0   |
| 26      | 26.0                 | 26.0  | 30.0                 | 29.0   | ..                    | ..    | -                         | 2.0   | 0.8                     | 3.9   | SW                      | SW    | 1.4           | 1.0   | 0.6                  | -     | 29.0                  | 32.5   |
| 27      | 28.5                 | 26.0  | 31.5                 | 27.5   | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 4.7   | SW                      | SW    | -             | 106.0 | -                    | 10.0  | 29.5                  | 32.0   |
| 28      | 26.5                 | 26.5  | 31.0                 | 30.0   | ..                    | ..    | 2.0                       | 2.0   | 0.7                     | 3.5   | SW                      | SW    | -             | -     | -                    | 2.0   | 27.5                  | 32.0   |
| 29      | 27.0                 | 27.0  | 30.0                 | 31.5   | ..                    | ..    | 2.0                       | 2.0   | 1.6                     | 3.3   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.5                  | 31.5   |
| 30      | 27.0                 |       | 30.5                 |        | ..                    |       | 2.0                       |       | 2.2                     |       | SW                      |       | -             |       | 1.0                  |       | 29.5                  |        |
| Total   | 864.0                | 901.0 | 1040.0               | 1044.5 | .. *                  | .. *  | 56.0                      | 60.0  | 52.4                    | 78.6  |                         |       | 90.8          | 134.8 | 29.0                 | 59.2  | 928.0                 | 1064.0 |
| Average | 28.8                 | 30.0  | 34.7                 | 34.8   | .. *                  | .. *  | 1.9                       | 2.0   | 1.7                     | 2.6   |                         |       |               |       |                      |       | 30.9                  | 35.5   |
|         | 29.4                 |       | 34.7                 |        | 0.0 *                 |       | 1.9                       |       | 2.2                     |       |                         |       | 225.6         |       | 88.2                 |       | 33.2                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3  
Local River/Basin : Kharun

Station Name : Pathardih  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Jul-17  |                      |       |                      |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 28.0  |                      | 32.5  | ..                    | ..    |                           | 2.0   |                         | 3.5   |                         | SW    |               | -     |                      | 2.0   |                       | 32.5   |
| 1       | 29.0                 | 27.5  | 31.5                 | 30.5  | ..                    | ..    | 2.0                       | 2.0   | 2.0                     | 4.0   | SW                      | SW    | 44.0          | 36.8  | 1.0                  | 0.8   | 30.0                  | 29.5   |
| 2       | 28.0                 | 29.0  | 30.5                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 2.8                     | 3.6   | SW                      | SW    | 1.6           | 0.8   | 0.6                  | 2.0   | 29.5                  | 28.5   |
| 3       | 26.5                 | 28.5  | 29.5                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 2.8                     | 4.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 28.5                  | 30.0   |
| 4       | 27.0                 | 27.5  | 29.0                 | 28.5  | ..                    | ..    | 2.0                       | 2.0   | 3.4                     | 4.1   | SW                      | SW    | 8.0           | -     | 1.0                  | 2.0   | 29.0                  | 31.5   |
| 5       | 27.5                 | 28.0  | 30.5                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 2.6                     | 3.1   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.5                  | 30.0   |
| 6       | 26.5                 | 29.0  | 31.5                 | 33.5  | ..                    | ..    | 2.0                       | 2.0   | 2.6                     | 3.6   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.0                  | 34.5   |
| 7       | 29.0                 | 29.0  | 34.0                 | 35.5  | ..                    | ..    | 2.0                       | 2.0   | 1.1                     | 9.2   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.5                  | 35.5   |
| 8       | 27.5                 | 29.5  | 30.5                 | 30.0  | ..                    | ..    | 4.0                       | 4.0   | 4.0                     | 0.3   | SW                      | SW    | -             | 7.8   | 1.0                  | 0.8   | 30.0                  | 34.0   |
| 9       | 26.5                 | 29.0  | 33.5                 | 31.5  | ..                    | ..    | 2.0                       | 2.0   | 2.4                     | 6.0   | SW                      | SW    | 3.8           | -     | 1.0                  | 2.0   | 31.5                  | 35.0   |
| 10      | 26.0                 | 26.0  | 31.5                 | 37.5  | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 3.0   | SW                      | SW    | 4.2           | 12.8  | 0.7                  | 0.8   | 29.5                  | 30.0   |
| 11      | 25.0                 | 26.5  | 28.5                 | 28.0  | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 1.5   | SW                      | SW    | 5.0           | -     | 1.0                  | 2.0   | 29.0                  | 30.5   |
| 12      | 28.0                 | 26.0  | 35.0                 | 28.0  | ..                    | ..    | 2.0                       | 2.0   | 1.1                     | 3.8   | SW                      | SW    | 4.4           | -     | 0.4                  | 2.0   | 28.5                  | 30.0   |
| 13      | 26.0                 | 27.5  | 30.5                 | 30.5  | ..                    | ..    | 2.0                       | 2.0   | 2.2                     | 2.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 31.5   |
| 14      | 26.5                 | 26.5  | 30.0                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 2.0                     | 3.6   | SW                      | SW    | -             | 11.0  | 1.0                  | 2.0   | 29.5                  | 30.5   |
| 15      | 25.5                 | 26.0  | 30.0                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 2.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.0                  | 35.5   |
| 16      | 27.0                 | 28.0  | 31.5                 | 29.5  | ..                    | ..    | 2.0                       | 2.0   | 1.5                     | 2.2   | SW                      | SW    | 1.2           | 1.4   | 1.8                  | 2.0   | 30.0                  | 32.5   |
| 17      | 26.5                 | 28.5  | 30.0                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 1.0                     | 5.4   | SW                      | SW    | 5.4           | 1.2   | 1.4                  | 2.0   | 30.5                  | 33.0   |
| 18      | 26.0                 | 26.5  | 31.5                 | 32.0  | ..                    | ..    | 2.0                       | 2.0   | 3.8                     | 7.7   | SW                      | SW    | 40.4          | -     | 0.4                  | 2.0   | 28.5                  | 34.5   |
| 19      | 26.0                 | 27.5  | 31.5                 | 29.0  | ..                    | ..    | 2.0                       | 2.0   | 1.7                     | 2.6   | SW                      | SW    | 5.6           | -     | 1.6                  | 1.0   | 31.0                  | 33.5   |
| 20      | 26.5                 | 28.0  | 29.5                 | 30.5  | ..                    | ..    | 2.0                       | 2.0   | 3.5                     | 5.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.5                  | 33.5   |
| 21      | 26.5                 | 26.5  | 29.0                 | 30.5  | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 3.4   | SW                      | SW    | 18.6          | -     | 0.6                  | 1.0   | 29.5                  | 34.0   |
| 22      | 27.5                 | 27.0  | 31.0                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 3.2   | SW                      | SW    | 20.4          | -     | 0.4                  | 2.0   | 30.5                  | 34.5   |
| 23      | 27.0                 | 27.5  | 31.5                 | 32.0  | ..                    | ..    | 2.0                       | 2.0   | 3.8                     | 3.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.0                  | 34.0   |
| 24      | 26.5                 | 26.0  | 30.5                 | 29.5  | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 3.5   | SW                      | SW    | 3.8           | -     | 1.6                  | 2.0   | 31.0                  | 32.5   |
| 25      | 26.0                 | 26.5  | 30.0                 | 31.5  | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 3.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.5                  | 34.0   |
| 26      | 26.5                 | 25.5  | 31.0                 | 33.5  | ..                    | ..    | 2.0                       | 4.0   | 2.3                     | 5.3   | SW                      | SW    | 1.4           | -     | -                    | 1.0   | 29.5                  | 34.5   |
| 27      | 25.0                 | 25.0  | 33.0                 | 28.5  | ..                    | ..    | 4.0                       | 2.0   | 5.1                     | 5.5   | SW                      | SW    | 1.4           | 3.2   | -                    | 1.2   | 28.0                  | 33.0   |
| 28      | 25.0                 | 26.0  | 32.0                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 3.3   | SW                      | SW    | 0.6           | -     | -                    | 2.0   | 29.5                  | 33.5   |
| 29      | 26.5                 | 27.0  | 32.5                 | 33.0  | ..                    | ..    | 2.0                       | 2.0   | 1.7                     | 2.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.0                  | 36.5   |
| 30      | 26.0                 | 27.5  | 32.0                 | 33.5  | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 1.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.0                  | 35.5   |
| 31      | 28.5                 |       | 32.5                 |       | ..                    |       | 2.0                       |       | 0.4                     |       | SW                      |       | -             |       | 2.0                  |       | 31.5                  |        |
| Total   | 827.5                | 846.5 | 965.0                | 962.0 | .. *                  | .. *  | 66.0                      | 66.0  | 69.2                    | 118.0 |                         |       | 169.8         | 75.0  | 28.5                 | 54.6  | 921.5                 | 1018.0 |
| Average | 26.7                 | 27.3  | 31.1                 | 31.0  | .. *                  | .. *  | 2.1                       | 2.1   | 2.2                     | 3.8   |                         |       |               |       |                      |       | 29.7                  | 32.8   |
|         | 27.0                 |       | 31.1                 |       | 0.0 *                 |       | 2.1                       |       | 3.0                     |       |                         |       | 244.8         |       | 83.1                 |       | 31.3                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3

Local River/Basin : Kharun

Station Name : Pathardih

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Aug-17  |                      |       |                      |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 28.5  |                      | 34.0  |                       | ..    |                           | 2.0   |                         | 2.6   |                         | SW    |               | -     |                      | 2.0   |                       | -      |
| 1       | 28.0                 | 28.0  | 34.5                 | 32.5  | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 2.7   | NW                      | NW    | 2.4           | -     | 0.4                  | 2.0   | 31.5                  | 33.5   |
| 2       | 26.5                 | 29.5  | 32.5                 | 32.0  | ..                    | ..    | -                         | 2.0   | 0.6                     | 3.3   | N                       | SW    | -             | -     | 1.0                  | 2.0   | 32.0                  | 34.0   |
| 3       | 29.0                 | 30.0  | 32.5                 | 32.5  | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 3.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 34.5   |
| 4       | 26.5                 | 30.5  | 34.0                 | 32.0  | ..                    | ..    | 2.0                       | 2.0   | 1.5                     | 1.1   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.0                  | 34.0   |
| 5       | 28.0                 | 30.0  | 33.5                 | 31.5  | ..                    | ..    | 2.0                       | 2.0   | 1.8                     | 2.2   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 33.5   |
| 6       | 27.0                 | 29.5  | 31.5                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 1.1                     | 1.1   | SW                      | SW    | 5.2           | 1.2   | 0.2                  | 2.0   | 31.0                  | 33.0   |
| 7       | 28.0                 | 30.0  | 31.5                 | 31.5  | ..                    | ..    | 2.0                       | 2.0   | 1.0                     | 2.1   | SW                      | SW    | 18.8          | 1.4   | 1.0                  | -     | 30.5                  | 32.5   |
| 8       | 26.5                 | 27.0  | 30.5                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 1.8                     | 4.2   | SW                      | SW    | 0.4           | -     | -                    | 1.0   | 30.0                  | 32.0   |
| 9       | 26.0                 | 27.5  | 31.0                 | 31.0  | ..                    | ..    | 4.0                       | 2.0   | 3.9                     | 3.9   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 32.5   |
| 10      | 26.5                 | 26.5  | 30.5                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 3.3                     | 3.2   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.5                  | 33.0   |
| 11      | 28.0                 | 26.0  | 30.5                 | 31.5  | ..                    | ..    | 2.0                       | 2.0   | 2.2                     | 3.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.5                  | 31.0   |
| 12      | 28.5                 | 26.5  | 33.5                 | 30.5  | ..                    | ..    | 4.0                       | 2.0   | 2.1                     | 4.5   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 32.0   |
| 13      | 27.5                 | 25.0  | 33.0                 | 28.5  | ..                    | ..    | 2.0                       | 2.0   | 1.8                     | 3.4   | NW                      | SW    | 2.4           | 5.2   | 0.4                  | -     | 31.0                  | 32.0   |
| 14      | 27.0                 | 24.5  | 32.0                 | 29.0  | ..                    | ..    | 2.0                       | 2.0   | 2.6                     | 3.4   | SW                      | SW    | 2.4           | -     | 0.4                  | 2.0   | 30.5                  | 33.5   |
| 15      | 28.5                 | 25.5  | 32.5                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 0.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.0                  | 33.0   |
| 16      | 27.5                 | 28.5  | 34.0                 | 34.5  | ..                    | ..    | 2.0                       | 2.0   | 1.8                     | 2.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 32.5                  | 36.0   |
| 17      | 27.0                 | 26.5  | 33.5                 | 31.5  | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 2.8   | SW                      | NW    | 0.2           | 9.6   | -                    | 2.6   | 30.5                  | 32.5   |
| 18      | 26.5                 | 27.5  | 33.5                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 3.4   | NW                      | NE    | 8.0           | -     | -                    | 1.0   | 29.0                  | 35.0   |
| 19      | 26.5                 | 27.0  | 33.0                 | 30.5  | ..                    | ..    | 2.0                       | -     | 2.5                     | 5.5   | NE                      | N     | 7.6           | 1.8   | 4.4                  | -     | 29.5                  | 33.0   |
| 20      | 26.0                 | 26.5  | 31.5                 | 30.0  | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 3.0   | SE                      | NE    | 12.4          | 1.4   | 0.4                  | 0.4   | 29.0                  | 32.5   |
| 21      | 26.5                 | 27.0  | 30.5                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 1.8   | SE                      | SE    | -             | -     | 1.0                  | 2.0   | 28.5                  | 32.5   |
| 22      | 27.0                 | 28.0  | 31.0                 | 32.5  | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 1.1   | NW                      | SW    | 1.0           | -     | -                    | 2.0   | 29.5                  | 35.0   |
| 23      | 26.5                 | 29.0  | 32.5                 | 32.5  | ..                    | ..    | -                         | -     | -                       | 0.7   | N                       | N     | -             | -     | 1.0                  | 2.0   | 32.0                  | 36.5   |
| 24      | 26.0                 | 28.5  | 33.5                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 1.6                     | 1.2   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 29.5                  | 35.5   |
| 25      | 26.0                 | 27.0  | 33.0                 | 30.5  | ..                    | ..    | 2.0                       | 2.0   | 1.0                     | 1.4   | SW                      | NW    | 2.0           | 26.6  | -                    | 0.6   | 29.0                  | 34.5   |
| 26      | 26.5                 | 28.0  | 32.5                 | 30.5  | ..                    | ..    | 2.0                       | 2.0   | 0.1                     | 0.8   | SW                      | NE    | -             | 1.8   | 1.0                  | 0.8   | 28.5                  | 34.0   |
| 27      | 27.0                 | 28.0  | 32.5                 | 31.0  | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 1.6   | SW                      | NW    | -             | 25.6  | -                    | 1.6   | 29.0                  | 34.5   |
| 28      | 26.5                 | 26.5  | 31.5                 | 28.0  | ..                    | ..    | 2.0                       | 2.0   | 1.1                     | 1.8   | NW                      | NW    | 15.8          | 11.0  | 3.8                  | 1.0   | 30.0                  | 32.5   |
| 29      | 26.0                 | 27.0  | 28.0                 | 31.5  | ..                    | ..    | 4.0                       | 2.0   | 2.3                     | 6.3   | SE                      | SE    | 6.2           | 8.4   | 0.2                  | 0.4   | 29.5                  | 33.0   |
| 30      | 26.5                 | 28.0  | 31.0                 | 32.5  | ..                    | ..    | 2.0                       | 2.0   | 1.6                     | 2.9   | SE                      | SE    | -             | -     | 2.0                  | 1.0   | 30.5                  | 34.0   |
| 31      | 29.0                 |       | 33.5                 |       |                       |       | 2.0                       |       | 0.6                     |       | NW                      |       | -             |       | 1.0                  |       | 30.0                  |        |
| Total   | 838.5                | 857.5 | 998.5                | 966.0 | .. *                  | .. *  | 64.0                      | 58.0  | 46.5                    | 82.3  |                         |       | 84.8          | 94.0  | 28.2                 | 46.4  | 940.0                 | 1005.0 |
| Average | 27.0                 | 27.7  | 32.2                 | 31.2  | .. *                  | .. *  | 2.1                       | 1.9   | 1.5                     | 2.7   |                         |       |               |       |                      |       | 30.3                  | 32.4   |
|         | 27.4                 |       | 31.7                 |       | 0.0 *                 |       | 2.0                       |       | 2.1                     |       |                         |       | 178.8         |       | 74.6                 |       | 31.4                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3  
Local River/Basin : Kharun

Station Name : Pathardih  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Sep-17  |                      |       |                      |        |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 27.5  |                      | 31.5   |                       | ..    |                           | 2.0   |                         | 0.2   |                         | NE    |               | 14.0  |                      | -     |                       | 34.0   |
| 1       | 28.0                 | 29.5  | 31.5                 | 33.0   | ..                    | ..    | 2.0                       | 2.0   | 1.7                     | 2.2   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 30.5                  | 35.5   |
| 2       | 28.5                 | 30.0  | 33.0                 | 34.5   | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 2.6   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.0                  | 34.0   |
| 3       | 29.0                 | 32.5  | 33.5                 | 34.0   | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 1.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 32.0                  | 35.5   |
| 4       | 30.0                 | 30.5  | 34.5                 | 35.5   | ..                    | ..    | 2.0                       | 2.0   | 0.7                     | 1.5   | SW                      | SW    | -             | 1.8   | 1.0                  | 2.0   | 32.5                  | 35.0   |
| 5       | 29.5                 | 30.0  | 34.0                 | 35.0   | ..                    | ..    | -                         | 2.0   | 0.1                     | 2.9   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 32.0                  | 37.5   |
| 6       | 30.0                 | 30.0  | 34.5                 | 35.0   | ..                    | ..    | 2.0                       | 2.0   | 1.0                     | 2.1   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 32.5                  | 37.0   |
| 7       | 28.5                 | 31.0  | 35.0                 | 35.5   | ..                    | ..    | -                         | -     | 0.6                     | 1.6   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 33.5                  | 37.5   |
| 8       | 29.0                 | 29.0  | 32.5                 | 33.5   | ..                    | ..    | -                         | -     | 0.3                     | 1.3   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 32.5                  | 34.5   |
| 9       | 28.0                 | 29.5  | 31.5                 | 32.0   | ..                    | ..    | 2.0                       | -     | 0.5                     | 1.6   | SW                      | N     | -             | 1.2   | 1.0                  | -     | 31.5                  | 34.0   |
| 10      | 28.0                 | 30.0  | 30.5                 | 32.0   | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 1.8   | SW                      | NW    | 1.2           | 4.4   | -                    | 0.4   | 30.5                  | 33.0   |
| 11      | 29.0                 | 29.5  | 31.0                 | 32.5   | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 2.8   | NE                      | NW    | 2.0           | -     | 0.4                  | 2.0   | 32.5                  | 33.5   |
| 12      | 28.5                 | 28.5  | 31.5                 | 33.0   | ..                    | ..    | -                         | 2.0   | 0.4                     | 2.2   | NE                      | NW    | -             | 0.6   | 2.0                  | -     | 30.0                  | 31.5   |
| 13      | 28.0                 | 28.0  | 30.0                 | 31.5   | ..                    | ..    | -                         | 2.0   | 0.9                     | 1.8   | SW                      | SW    | -             | 6.6   | -                    | 0.6   | 30.0                  | 32.0   |
| 14      | 28.5                 | 29.0  | 31.5                 | 32.5   | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 1.1   | SW                      | SW    | -             | -     | -                    | 2.0   | 30.5                  | 33.0   |
| 15      | 29.0                 | 30.0  | 32.0                 | 33.0   | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 1.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.0                  | 32.5   |
| 16      | 28.0                 | 30.0  | 32.5                 | 33.0   | ..                    | ..    | -                         | 2.0   | 0.1                     | 1.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 30.5                  | 34.0   |
| 17      | 29.0                 | 30.0  | 33.5                 | 34.5   | ..                    | ..    | 4.0                       | 8.0   | 0.6                     | 2.4   | NW                      | NE    | -             | 7.6   | 2.0                  | 0.6   | 32.0                  | 32.5   |
| 18      | 28.0                 | 28.5  | 33.5                 | 34.5   | ..                    | ..    | 2.0                       | 10.0  | 0.6                     | 2.9   | SW                      | SW    | -             | 5.2   | -                    | 1.2   | 32.5                  | 33.0   |
| 19      | 26.5                 | 29.5  | 31.5                 | 33.0   | ..                    | ..    | 8.0                       | 4.0   | 1.5                     | 2.3   | SW                      | SE    | 25.2          | 1.4   | 1.2                  | 0.4   | 29.0                  | 32.0   |
| 20      | 25.5                 | 27.5  | 30.0                 | 30.0   | ..                    | ..    | -                         | 2.0   | 1.6                     | 3.5   | SW                      | SW    | 22.2          | 12.0  | 0.2                  | -     | 29.0                  | 29.5   |
| 21      | 26.5                 | 28.5  | 30.0                 | 33.0   | ..                    | ..    | 4.0                       | 2.0   | 3.3                     | 4.9   | SW                      | SW    | -             | -     | -                    | 2.0   | 29.5                  | 30.5   |
| 22      | 26.5                 | 27.0  | 30.5                 | 32.5   | ..                    | ..    | 2.0                       | 2.0   | 1.2                     | 3.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.0                  | 31.5   |
| 23      | 26.5                 | 28.0  | 30.0                 | 33.5   | ..                    | ..    | 2.0                       | -     | 0.3                     | 1.0   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 29.5                  | 32.5   |
| 24      | 28.5                 | 29.0  | 32.5                 | 34.0   | ..                    | ..    | 2.0                       | -     | -                       | 3.8   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 30.0                  | 33.5   |
| 25      | 28.0                 | 29.5  | 33.0                 | 34.0   | ..                    | ..    | 2.0                       | -     | 0.4                     | 3.7   | NW                      | NE    | -             | -     | 1.0                  | -     | 31.5                  | 33.0   |
| 26      | 28.0                 | 29.5  | 34.0                 | 34.5   | ..                    | ..    | 4.0                       | -     | 0.7                     | 2.8   | NW                      | NE    | -             | -     | 2.0                  | 2.0   | 32.0                  | 36.0   |
| 27      | 28.5                 | 29.0  | 33.5                 | 34.0   | ..                    | ..    | -                         | 2.0   | -                       | 1.3   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 31.0                  | 34.0   |
| 28      | 28.0                 | 30.5  | 33.0                 | 34.0   | ..                    | ..    | -                         | -     | 0.7                     | -     | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 34.5   |
| 29      | 29.0                 | 31.5  | 32.5                 | 33.0   | ..                    | ..    | -                         | -     | 0.1                     | 0.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 31.0                  | 34.0   |
| 30      | 28.5                 |       | 32.0                 |        | ..                    |       | -                         |       | 1.2                     |       | NE                      |       | -             |       | 1.0                  |       | 30.5                  |        |
| Total   | 846.5                | 882.5 | 968.5                | 1001.5 | .. *                  | .. *  | 50.0                      | 58.0  | 21.7                    | 62.3  |                         |       | 50.6          | 54.8  | 28.8                 | 43.2  | 931.0                 | 1010.5 |
| Average | 28.2                 | 29.4  | 32.3                 | 33.4   | .. *                  | .. *  | 1.7                       | 1.9   | 0.7                     | 2.1   |                         |       |               |       |                      |       | 31.0                  | 33.7   |
|         | 28.8                 |       | 32.8                 |        | 0.0 *                 |       | 1.8                       |       | 1.4                     |       |                         |       | 105.4         |       | 72.0                 |       | 32.4                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3  
Local River/Basin : Kharun

Station Name : Pathardih  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 30.0  |                      | 33.5   |                       | ..    |                           | -     |                         | 2.8   |                         | NE    |               | -     |                      | 2.0   |                       | 35.5   |
| 1       | 29.0                 | 29.5  | 32.0                 | 32.5   | ..                    | ..    | -                         | 2.0   | -                       | 0.8   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 31.0                  | 33.5   |
| 2       | 28.0                 | 28.5  | 31.5                 | 32.5   | ..                    | ..    | -                         | -     | 0.3                     | 0.8   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 29.5                  | 35.0   |
| 3       | 28.0                 | 29.0  | 32.5                 | 33.0   | ..                    | ..    | -                         | -     | -                       | 1.1   | NE                      | NE    | -             | -     | 2.0                  | -     | 30.5                  | 34.5   |
| 4       | 27.5                 | 28.0  | 32.0                 | 33.5   | ..                    | ..    | -                         | -     | -                       | -     | NE                      | NE    | -             | 8.4   | 1.0                  | 0.4   | 31.0                  | 32.5   |
| 5       | 27.5                 | 28.0  | 32.0                 | 35.0   | ..                    | ..    | -                         | -     | -                       | -     | NE                      | NE    | 0.8           | -     | -                    | 2.0   | 30.5                  | 32.0   |
| 6       | 27.5                 | 28.5  | 33.0                 | 33.0   | ..                    | ..    | 2.0                       | 6.0   | 0.1                     | 0.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 31.5                  | 33.0   |
| 7       | 28.0                 | 29.0  | 33.5                 | 33.5   | ..                    | ..    | 8.0                       | 4.0   | 4.2                     | 3.1   | NW                      | NW    | -             | 1.2   | 1.0                  | 0.2   | 32.5                  | 33.0   |
| 8       | 27.0                 | 28.0  | 30.5                 | 32.5   | ..                    | ..    | -                         | 2.0   | 0.3                     | 2.0   | NE                      | SW    | -             | 10.6  | 1.0                  | 0.6   | 29.0                  | 30.5   |
| 9       | 26.5                 | 27.5  | 30.0                 | 32.5   | ..                    | ..    | -                         | -     | 0.6                     | 1.3   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 29.5                  | 30.5   |
| 10      | 26.0                 | 28.0  | 30.5                 | 33.0   | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 1.2   | W                       | SE    | -             | -     | -                    | 2.0   | 30.0                  | 32.5   |
| 11      | 27.0                 | 27.5  | 31.5                 | 33.5   | ..                    | ..    | 2.0                       | -     | 0.2                     | 2.5   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 31.0                  | 33.0   |
| 12      | 28.0                 | 28.0  | 32.5                 | 33.5   | ..                    | ..    | -                         | -     | -                       | 3.3   | NE                      | NE    | -             | -     | -                    | 1.0   | 30.5                  | 33.5   |
| 13      | 29.0                 | 29.5  | 33.0                 | 33.5   | ..                    | ..    | -                         | -     | -                       | 0.8   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 31.5                  | 32.0   |
| 14      | 28.0                 | 29.0  | 32.0                 | 33.5   | ..                    | ..    | 4.0                       | 2.0   | 0.1                     | 3.9   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 31.0                  | 33.0   |
| 15      | 28.5                 | 28.5  | 32.5                 | 33.0   | ..                    | ..    | 2.0                       | -     | 0.4                     | 3.3   | NW                      | NE    | -             | -     | -                    | 2.0   | 32.5                  | 33.5   |
| 16      | 28.0                 | 28.0  | 33.0                 | 34.5   | ..                    | ..    | -                         | -     | 0.2                     | 3.1   | NE                      | NE    | -             | -     | -                    | 2.0   | 29.5                  | 35.5   |
| 17      | 26.5                 | 27.5  | 33.5                 | 34.5   | ..                    | ..    | 4.0                       | -     | 0.5                     | 3.2   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 28.5                  | 34.0   |
| 18      | 25.0                 | 28.5  | 32.0                 | 34.0   | ..                    | ..    | 6.0                       | 8.0   | 0.7                     | 4.0   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 34.5   |
| 19      | 25.5                 | 26.0  | 31.5                 | 32.0   | ..                    | ..    | 4.0                       | 4.0   | 3.0                     | 2.2   | NW                      | SE    | -             | 7.6   | 1.0                  | 0.6   | 28.0                  | 31.0   |
| 20      | 26.5                 | 27.0  | 30.0                 | 31.5   | ..                    | ..    | 2.0                       | -     | 1.8                     | 5.8   | NW                      | NE    | -             | -     | -                    | 2.0   | 29.5                  | 30.5   |
| 21      | 27.5                 | 28.0  | 32.5                 | 33.0   | ..                    | ..    | 2.0                       | -     | 0.2                     | 3.4   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 29.0                  | 30.5   |
| 22      | 27.5                 | 29.0  | 32.0                 | 33.5   | ..                    | ..    | 2.0                       | 2.0   | 2.4                     | 1.4   | NE                      | NW    | 2.6           | -     | 0.6                  | -     | 28.5                  | 31.0   |
| 23      | 27.5                 | 29.0  | 32.5                 | 33.0   | ..                    | ..    | 2.0                       | -     | 0.4                     | 1.1   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 29.5                  | 32.5   |
| 24      | 28.0                 | 29.5  | 33.5                 | 34.0   | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 1.1   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 33.0   |
| 25      | 25.5                 | 28.0  | 33.0                 | 33.5   | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.1   | NW                      | NE    | -             | -     | -                    | 2.0   | 30.0                  | 33.5   |
| 26      | 25.5                 | 26.0  | 32.0                 | 33.5   | ..                    | ..    | 2.0                       | -     | 0.3                     | 2.5   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 31.5                  | 32.5   |
| 27      | 26.0                 | 26.0  | 31.5                 | 32.5   | ..                    | ..    | -                         | 2.0   | 0.3                     | 2.3   | N                       | NW    | -             | -     | 1.0                  | 2.0   | 28.5                  | 32.0   |
| 28      | 25.5                 | 26.5  | 32.0                 | 32.0   | ..                    | ..    | 2.0                       | -     | 0.1                     | 0.8   | NW                      | NE    | -             | -     | 1.0                  | -     | 28.0                  | 32.0   |
| 29      | 25.0                 | 26.0  | 31.5                 | 32.5   | ..                    | ..    | 2.0                       | -     | 0.8                     | 1.7   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.5                  | 31.5   |
| 30      | 25.0                 | 25.5  | 30.5                 | 32.0   | ..                    | ..    | 2.0                       | -     | 0.3                     | 1.8   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 31.0   |
| 31      | 24.5                 |       | 30.0                 |        | ..                    |       | 2.0                       |       | 0.5                     |       | NW                      |       | -             |       | 1.0                  |       | 27.5                  |        |
| Total   | 834.5                | 867.0 | 990.0                | 1027.5 | .. *                  | .. *  | 56.0                      | 36.0  | 18.3                    | 63.5  |                         |       | 3.4           | 27.8  | 24.6                 | 47.8  | 922.5                 | 1012.5 |
| Average | 26.9                 | 28.0  | 31.9                 | 33.1   | .. *                  | .. *  | 1.8                       | 1.2   | 0.6                     | 2.0   |                         |       |               |       |                      |       | 29.8                  | 32.7   |
|         | 27.4                 |       | 32.5                 |        | 0.0 *                 |       | 1.5                       |       | 1.3                     |       |                         |       | 31.2          |       | 72.4                 |       | 31.2                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3

Local River/Basin : Kharun

Station Name : Pathardih

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

Nov-17

|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LDoPM   |                      | 26.0  |                      | 33.0  |                       | ..    |                           | -     |                         | 2.4   |                         | NE    |               | -     |                      | 2.0   |                       | 32.0  |
| 1       | 24.0                 | 27.0  | 29.5                 | 33.5  | ..                    | ..    | 4.0                       | -     | 0.8                     | -     | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 26.5                  | 32.5  |
| 2       | 25.5                 | 27.5  | 30.0                 | 34.0  | ..                    | ..    | 2.0                       | -     | 3.3                     | 5.0   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 33.0  |
| 3       | 25.0                 | 27.0  | 30.5                 | 33.5  | ..                    | ..    | 2.0                       | -     | 0.4                     | 5.8   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 27.5                  | 33.5  |
| 4       | 26.0                 | 27.5  | 31.0                 | 34.0  | ..                    | ..    | 2.0                       | 2.0   | -                       | 6.0   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 26.5                  | 32.0  |
| 5       | 26.5                 | 28.0  | 31.5                 | 34.5  | ..                    | ..    | 2.0                       | 4.0   | 0.7                     | 4.0   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 33.5  |
| 6       | 22.0                 | 28.0  | 29.5                 | 34.5  | ..                    | ..    | -                         | 2.0   | 1.2                     | 3.8   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 30.5  |
| 7       | 21.0                 | 28.5  | 29.5                 | 34.0  | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 3.0   | NE                      | NE    | -             | -     | -                    | 2.0   | 19.5                  | 31.5  |
| 8       | 22.5                 | 27.0  | 29.0                 | 33.0  | ..                    | ..    | 2.0                       | -     | 0.5                     | 3.8   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.0                  | 31.0  |
| 9       | 23.0                 | 27.5  | 28.5                 | 33.0  | ..                    | ..    | -                         | 2.0   | 0.3                     | 3.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 20.0                  | 30.5  |
| 10      | 22.5                 | 27.0  | 28.0                 | 32.5  | ..                    | ..    | -                         | -     | 0.4                     | 5.2   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 20.5                  | 31.0  |
| 11      | 23.5                 | 27.5  | 29.0                 | 31.0  | ..                    | ..    | -                         | 2.0   | 0.3                     | 4.1   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 21.5                  | 31.5  |
| 12      | 22.0                 | 28.0  | 27.5                 | 32.0  | ..                    | ..    | 2.0                       | -     | 0.4                     | 4.1   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 21.0                  | 30.0  |
| 13      | 23.0                 | 26.5  | 28.0                 | 28.5  | ..                    | ..    | 2.0                       | -     | 0.5                     | 4.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 23.0                  | 28.0  |
| 14      | 23.5                 | 26.0  | 28.0                 | 28.5  | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 4.2   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 23.5                  | 29.5  |
| 15      | 23.5                 | 24.0  | 26.5                 | 28.5  | ..                    | ..    | 2.0                       | 4.0   | 1.3                     | 6.4   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 25.0                  | 27.5  |
| 16      | 22.5                 | 23.0  | 26.0                 | 26.0  | ..                    | ..    | 8.0                       | 2.0   | 3.5                     | 5.0   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 24.0                  | 27.0  |
| 17      | 23.0                 | 23.5  | 27.0                 | 28.0  | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 5.2   | NE                      | SE    | -             | -     | -                    | 2.0   | 27.0                  | 28.5  |
| 18      | 23.0                 | 24.5  | 27.5                 | 28.5  | ..                    | ..    | 2.0                       | -     | 0.2                     | 4.6   | NW                      | NE    | -             | -     | -                    | 2.0   | 27.0                  | 29.0  |
| 19      | 24.0                 | 25.0  | 28.0                 | 29.0  | ..                    | ..    | 2.0                       | 2.0   | 0.1                     | 1.8   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 25.5                  | 28.0  |
| 20      | 25.0                 | 26.5  | 29.5                 | 30.0  | ..                    | ..    | -                         | 2.0   | 0.3                     | 0.7   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 28.5  |
| 21      | 25.0                 | 25.0  | 30.5                 | 31.0  | ..                    | ..    | 4.0                       | 4.0   | 3.3                     | 3.4   | NW                      | NW    | -             | -     | -                    | 1.0   | 24.5                  | 29.5  |
| 22      | 23.0                 | 25.5  | 29.5                 | 32.0  | ..                    | ..    | 2.0                       | 4.0   | 0.1                     | 3.6   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 23.5                  | 30.0  |
| 23      | 22.5                 | 24.0  | 28.5                 | 30.5  | ..                    | ..    | 2.0                       | -     | 0.2                     | 3.6   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 23.0                  | 30.5  |
| 24      | 20.5                 | 23.5  | 28.0                 | 29.5  | ..                    | ..    | 2.0                       | -     | 0.3                     | 4.0   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 21.5                  | 29.0  |
| 25      | 21.0                 | 22.0  | 27.5                 | 28.0  | ..                    | ..    | 2.0                       | -     | 0.1                     | 4.4   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 21.0                  | 28.5  |
| 26      | 21.0                 | 21.5  | 26.5                 | 27.5  | ..                    | ..    | -                         | -     | 0.1                     | 3.0   | NE                      | NE    | -             | -     | 1.0                  | -     | 20.5                  | 27.0  |
| 27      | 20.0                 | 20.5  | 26.5                 | 28.0  | ..                    | ..    | 2.0                       | -     | 0.2                     | 2.3   | NW                      | NE    | -             | -     | -                    | 2.0   | 20.0                  | 27.5  |
| 28      | 19.5                 | 20.0  | 26.0                 | 28.5  | ..                    | ..    | 2.0                       | -     | 0.1                     | 1.8   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.5                  | 27.0  |
| 29      | 19.5                 | 20.5  | 25.5                 | 27.0  | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 3.2   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 28.0  |
| 30      | 19.0                 |       | 25.0                 |       | ..                    |       | -                         |       | -                       |       | NE                      |       | -             |       | 1.0                  |       | 19.5                  |       |
| Total   | 682.0                | 758.0 | 847.5                | 921.5 | .. *                  | .. *  | 56.0                      | 38.0  | 20.7                    | 111.7 |                         |       | -             | -     | 25.0                 | 57.0  | 687.0                 | 895.5 |
| Average | 22.7                 | 25.3  | 28.3                 | 30.7  | .. *                  | .. *  | 1.9                       | 1.3   | 0.7                     | 3.7   |                         |       |               |       |                      |       | 22.9                  | 29.9  |
|         | 24.0                 |       | 29.5                 |       | 0.0 *                 |       | 1.6                       |       | 2.2                     |       |                         |       | 0.0           |       | 82.0                 |       | 26.4                  |       |

## Twice Daily Climatic Data

Station Code : EMP70F3  
Local River/Basin : Kharun

Station Name : Pathardih  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 21.0  |                      | 27.5  |                       | ..    |                           | -     |                         | 1.8   |                         | NE    |               | -     |                      | 2.0   |                       | 27.5  |
| 1       | 19.5                 | 21.0  | 24.5                 | 27.0  | ..                    | ..    | 4.0                       | 2.0   | 0.9                     | 5.4   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 26.0  |
| 2       | 18.0                 | 21.5  | 25.5                 | 26.5  | ..                    | ..    | 2.0                       | -     | 0.3                     | 4.2   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.5                  | 25.5  |
| 3       | 17.5                 | 21.0  | 25.0                 | 26.5  | ..                    | ..    | 2.0                       | -     | 0.2                     | 4.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.0                  | 25.0  |
| 4       | 17.0                 | 20.5  | 24.0                 | 26.0  | ..                    | ..    | -                         | 2.0   | 0.1                     | 2.8   | NE                      | NW    | -             | -     | -                    | 2.0   | 18.5                  | 24.5  |
| 5       | 17.0                 | 19.5  | 24.5                 | 25.0  | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 3.1   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 19.0                  | 25.0  |
| 6       | 18.5                 | 20.5  | 23.0                 | 25.5  | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.9   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.5                  | 25.5  |
| 7       | 19.5                 | 20.0  | 25.5                 | 26.0  | ..                    | ..    | -                         | 2.0   | -                       | 5.1   | NE                      | NW    | -             | -     | -                    | 2.0   | 18.0                  | 26.0  |
| 8       | 20.5                 | 22.5  | 26.0                 | 27.5  | ..                    | ..    | 4.0                       | 2.0   | 0.3                     | 3.5   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 20.5                  | 25.5  |
| 9       | 19.5                 | 22.0  | 26.5                 | 27.0  | ..                    | ..    | 2.0                       | 2.0   | 1.8                     | 4.0   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 26.0  |
| 10      | 18.5                 | 21.5  | 26.0                 | 27.5  | ..                    | ..    | 2.0                       | 2.0   | 1.9                     | 2.9   | NW                      | NW    | -             | -     | -                    | 2.0   | 19.5                  | 24.5  |
| 11      | 18.5                 | 20.0  | 25.5                 | 26.0  | ..                    | ..    | -                         | -     | -                       | 1.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 18.5                  | 25.0  |
| 12      | 18.0                 | 19.0  | 25.0                 | 26.5  | ..                    | ..    | -                         | 2.0   | -                       | 0.4   | NE                      | S     | -             | -     | 1.0                  | 2.0   | 19.0                  | 25.5  |
| 13      | 19.0                 | 20.5  | 26.0                 | 27.5  | ..                    | ..    | 2.0                       | -     | -                       | 1.6   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 20.5                  | 26.5  |
| 14      | 20.5                 | 22.0  | 26.5                 | 27.0  | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.0   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 20.5                  | 26.0  |
| 15      | 20.0                 | 22.5  | 27.0                 | 28.5  | ..                    | ..    | -                         | 2.0   | -                       | 2.0   | NE                      | NE    | -             | -     | -                    | 2.0   | 21.0                  | 26.5  |
| 16      | 20.5                 | 22.0  | 26.5                 | 27.5  | ..                    | ..    | -                         | -     | -                       | 1.5   | NE                      | NE    | -             | -     | 1.0                  | -     | 22.0                  | 27.0  |
| 17      | 20.5                 | 21.5  | 26.0                 | 27.0  | ..                    | ..    | 2.0                       | 2.0   | -                       | 4.1   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 21.5                  | 26.0  |
| 18      | 18.5                 | 21.0  | 25.5                 | 26.5  | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 2.4   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 20.5                  | 25.5  |
| 19      | 18.0                 | 21.5  | 24.0                 | 26.0  | ..                    | ..    | -                         | -     | 1.2                     | 2.9   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 18.5                  | 25.0  |
| 20      | 18.5                 | 21.0  | 24.5                 | 26.5  | ..                    | ..    | -                         | 2.0   | -                       | 2.3   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 25.5  |
| 21      | 18.0                 | 22.5  | 25.0                 | 27.0  | ..                    | ..    | 2.0                       | 4.0   | 0.9                     | 3.4   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 19.5                  | 26.0  |
| 22      | 17.5                 | 22.0  | 24.5                 | 26.5  | ..                    | ..    | 2.0                       | 2.0   | -                       | 3.6   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 26.5  |
| 23      | 17.5                 | 21.0  | 24.0                 | 26.0  | ..                    | ..    | -                         | -     | -                       | 4.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.0                  | 25.0  |
| 24      | 17.0                 | 20.5  | 25.0                 | 27.0  | ..                    | ..    | -                         | -     | -                       | 3.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 18.5                  | 24.5  |
| 25      | 17.5                 | 20.0  | 24.5                 | 27.5  | ..                    | ..    | -                         | -     | -                       | 1.7   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 18.0                  | 24.0  |
| 26      | 18.0                 | 21.0  | 25.0                 | 27.0  | ..                    | ..    | 2.0                       | 2.0   | -                       | 3.3   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 18.5                  | 24.5  |
| 27      | 17.0                 | 21.5  | 24.0                 | 26.5  | ..                    | ..    | -                         | -     | -                       | 1.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 18.0                  | 24.0  |
| 28      | 16.0                 | 20.0  | 24.5                 | 25.0  | ..                    | ..    | -                         | -     | -                       | 1.5   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.5                  | 23.0  |
| 29      | 16.0                 | 19.5  | 24.5                 | 25.0  | ..                    | ..    | 2.0                       | 2.0   | -                       | 2.6   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 17.5                  | 24.0  |
| 30      | 16.5                 | 18.0  | 24.0                 | 25.5  | ..                    | ..    | 2.0                       | -     | -                       | 3.0   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 18.0                  | 24.5  |
| 31      | 16.0                 |       | 24.5                 |       | ..                    |       | -                         |       | -                       |       | NE                      |       | -             |       | 1.0                  |       | 17.5                  |       |
| Total   | 564.5                | 648.0 | 776.5                | 824.0 | .. *                  | .. *  | 38.0                      | 34.0  | 8.2                     | 87.6  |                         |       | -             | -     | 27.0                 | 60.0  | 595.5                 | 785.5 |
| Average | 18.2                 | 20.9  | 25.0                 | 26.6  | .. *                  | .. *  | 1.2                       | 1.1   | 0.3                     | 2.8   |                         |       |               |       |                      |       | 19.2                  | 25.3  |
|         | 19.6                 |       | 25.8                 |       | 0.0 *                 |       | 1.2                       |       | 1.5                     |       |                         |       | 0.0           |       | 87.0                 |       | 22.3                  |       |

## Twice Daily Climatic Data

Station Code : EMP70F3  
Local River/Basin : Kharun

Station Name : Pathardih  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 18.5  |                      | 26.0  |                       | ..    |                           | 2.0   |                         | 3.6   |                         | NW    |               | -     |                      | 2.0   |                       | 25.0  |
| 1       | 16.0                 | 18.0  | 24.0                 | 25.5  | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 3.2   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 17.0                  | 24.5  |
| 2       | 15.5                 | 18.5  | 23.0                 | 25.0  | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 1.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.0                  | 24.0  |
| 3       | 15.0                 | 18.0  | 22.5                 | 24.5  | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 1.6   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 16.5                  | 23.5  |
| 4       | 15.5                 | 19.0  | 24.5                 | 25.0  | ..                    | ..    | -                         | 2.0   | 0.8                     | 2.2   | NW                      | NE    | -             | -     | -                    | 2.0   | 16.0                  | 24.0  |
| 5       | 16.0                 | 19.5  | 25.5                 | 26.0  | ..                    | ..    | -                         | -     | -                       | 1.6   | NE                      | N     | -             | -     | 1.0                  | 2.0   | 15.5                  | 23.0  |
| 6       | 15.5                 | 19.0  | 24.0                 | 26.0  | ..                    | ..    | 2.0                       | -     | -                       | 1.7   | NW                      | N     | -             | -     | 1.0                  | 2.0   | 15.0                  | 22.5  |
| 7       | 15.0                 | 19.5  | 24.0                 | 26.5  | ..                    | ..    | -                         | -     | -                       | 3.7   | N                       | N     | -             | -     | 1.0                  | 2.0   | 15.0                  | 22.5  |
| 8       | 16.0                 | 18.0  | 23.5                 | 25.5  | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.0   | NW                      | N     | -             | -     | 1.0                  | 2.0   | 16.5                  | 22.0  |
| 9       | 15.5                 | 17.5  | 22.0                 | 24.0  | ..                    | ..    | -                         | 2.0   | -                       | 2.6   | N                       | NW    | -             | -     | 1.0                  | 2.0   | 17.5                  | 23.5  |
| 10      | 16.0                 | 16.0  | 23.0                 | 24.5  | ..                    | ..    | -                         | 2.0   | -                       | 0.7   | N                       | NW    | -             | -     | 1.0                  | -     | 17.5                  | 22.5  |
| 11      | 17.0                 | 17.5  | 25.0                 | 25.5  | ..                    | ..    | -                         | -     | 0.4                     | 0.3   | W                       | N     | -             | -     | 1.0                  | 2.0   | 18.5                  | 25.5  |
| 12      | 17.0                 | 17.0  | 24.5                 | 25.5  | ..                    | ..    | -                         | -     | -                       | -     | N                       | NW    | -             | -     | -                    | 2.0   | 18.5                  | 24.5  |
| 13      | 16.5                 | 18.0  | 24.5                 | 25.0  | ..                    | ..    | -                         | -     | -                       | 0.4   | N                       | N     | -             | -     | 1.0                  | 2.0   | 19.0                  | 24.0  |
| 14      | 16.0                 | 18.0  | 24.0                 | 24.5  | ..                    | ..    | -                         | -     | 0.2                     | 0.4   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 25.5  |
| 15      | 18.5                 | 18.5  | 26.5                 | 27.5  | ..                    | ..    | -                         | 2.0   | -                       | 2.5   | NW                      | W     | -             | -     | 1.0                  | 2.0   | 20.5                  | 26.0  |
| 16      | 18.5                 | 18.5  | 26.0                 | 26.0  | ..                    | ..    | -                         | -     | -                       | 0.8   | NW                      | N     | -             | -     | 1.0                  | 2.0   | 18.5                  | 26.0  |
| 17      | 16.5                 | 17.5  | 26.0                 | 26.5  | ..                    | ..    | -                         | 2.0   | -                       | 0.9   | N                       | NW    | -             | -     | 1.0                  | 2.0   | 17.5                  | 25.5  |
| 18      | 16.0                 | 18.5  | 25.5                 | 25.5  | ..                    | ..    | -                         | 2.0   | -                       | 1.7   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 18.5                  | 25.0  |
| 19      | 17.5                 | 17.5  | 24.0                 | 24.5  | ..                    | ..    | 2.0                       | -     | 0.2                     | 1.3   | NW                      | N     | -             | -     | 1.0                  | 2.0   | 17.0                  | 24.5  |
| 20      | 17.5                 | 18.0  | 24.0                 | 24.5  | ..                    | ..    | -                         | 2.0   | -                       | 0.8   | N                       | NW    | -             | -     | 1.0                  | 2.0   | 18.5                  | 25.5  |
| 21      | 17.5                 | 18.0  | 24.0                 | 25.5  | ..                    | ..    | -                         | 2.0   | -                       | 1.8   | N                       | NW    | -             | -     | 1.0                  | 2.0   | 18.0                  | 25.5  |
| 22      | 17.0                 | 18.5  | 24.5                 | 26.0  | ..                    | ..    | -                         | 2.0   | -                       | 1.2   | N                       | NW    | -             | -     | -                    | 1.8   | 18.5                  | 26.0  |
| 23      | 17.5                 | 18.0  | 26.0                 | 26.5  | ..                    | ..    | -                         | 2.0   | -                       | 0.4   | N                       | NW    | -             | -     | -                    | 1.4   | 17.0                  | 26.5  |
| 24      | 18.0                 | 19.0  | 25.0                 | 25.0  | ..                    | ..    | -                         | 2.0   | -                       | 2.6   | NW                      | NW    | -             | -     | 1.2                  | 0.8   | 20.5                  | 27.0  |
| 25      | 18.5                 | 18.5  | 25.5                 | 25.5  | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 1.7   | NW                      | SW    | -             | -     | -                    | 1.6   | 18.5                  | 27.5  |
| 26      | 17.5                 | 18.5  | 25.5                 | 26.0  | ..                    | ..    | -                         | 4.0   | -                       | 2.3   | W                       | NW    | -             | -     | 0.4                  | 2.2   | 18.0                  | 26.5  |
| 27      | 15.5                 | 16.5  | 24.5                 | 25.0  | ..                    | ..    | -                         | -     | -                       | 0.8   | N                       | N     | -             | -     | 1.4                  | 1.2   | 17.0                  | 26.0  |
| 28      | 15.5                 | 17.5  | 23.5                 | 26.0  | ..                    | ..    | -                         | 2.0   | 0.3                     | 1.4   | N                       | W     | -             | -     | 1.0                  | 1.6   | 16.5                  | 27.0  |
| 29      | 16.5                 | 18.0  | 24.5                 | 26.5  | ..                    | ..    | -                         | -     | -                       | 1.9   | NE                      | N     | -             | -     | 0.8                  | 1.8   | 18.0                  | 27.5  |
| 30      | 17.5                 | 18.5  | 25.0                 | 26.5  | ..                    | ..    | 2.0                       | -     | 1.1                     | 0.3   | NW                      | N     | -             | -     | 1.0                  | 1.4   | 18.5                  | 27.5  |
| 31      | 17.0                 |       | 24.5                 |       | ..                    |       | -                         |       | 0.1                     |       | N                       |       | -             |       | 0.8                  |       | 17.5                  |       |
| Total   | 515.0                | 561.5 | 758.5                | 792.0 | .. *                  | .. *  | 16.0                      | 38.0  | 4.5                     | 47.7  |                         |       | -             | -     | 25.6                 | 55.8  | 548.0                 | 776.0 |
| Average | 16.6                 | 18.1  | 24.5                 | 25.5  | .. *                  | .. *  | 0.5                       | 1.2   | 0.1                     | 1.5   |                         |       |               |       |                      |       | 17.7                  | 25.0  |
|         | 17.4                 |       | 25.0                 |       | 0.0 *                 |       | 0.9                       |       | 0.8                     |       |                         |       | 0.0           |       | 81.4                 |       | 21.4                  |       |

## Twice Daily Climatic Data

Station Code : EMP70F3

Local River/Basin : Kharun

Station Name : Pathardih

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 18.0  |                      | 26.0  |                       | ..    |                           | -     |                         | 2.3   |                         | N     |               | -     |                      | 1.0   |                       | 27.0  |
| 1       | 17.5                 | 18.5  | 24.0                 | 26.5  | ..                    | ..    | 2.0                       | -     | 1.4                     | 2.7   | NW                      | N     | -             | -     | 1.0                  | 1.8   | 17.0                  | 27.5  |
| 2       | 17.0                 | 18.0  | 24.0                 | 26.5  | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 1.2   | N                       | NW    | -             | -     | 0.9                  | 1.4   | 16.5                  | 27.0  |
| 3       | 17.5                 | 18.0  | 24.5                 | 27.0  | ..                    | ..    | -                         | -     | 1.4                     | 2.7   | N                       | N     | -             | -     | 1.0                  | 0.9   | 17.5                  | 27.5  |
| 4       | 17.0                 | 18.5  | 25.0                 | 26.5  | ..                    | ..    | -                         | -     | 0.2                     | 0.1   | N                       | NW    | -             | -     | 0.8                  | 1.9   | 16.5                  | 26.5  |
| 5       | 19.0                 | 19.0  | 27.0                 | 28.5  | ..                    | ..    | -                         | -     | -                       | 0.2   | SW                      | NW    | -             | -     | 1.2                  | 2.3   | 17.0                  | 27.0  |
| 6       | 18.5                 | 20.5  | 29.0                 | 30.0  | ..                    | ..    | 2.0                       | -     | 0.4                     | 0.2   | NW                      | N     | -             | -     | 0.6                  | 2.5   | 18.5                  | 29.0  |
| 7       | 18.0                 | 22.5  | 25.0                 | 30.0  | ..                    | ..    | -                         | 2.0   | -                       | 0.5   | NW                      | NW    | -             | -     | 0.4                  | 2.0   | 13.5                  | 24.5  |
| 8       | 19.0                 | 20.5  | 25.5                 | 29.0  | ..                    | ..    | -                         | -     | -                       | 0.9   | NW                      | SW    | -             | -     | 0.6                  | 1.6   | 27.0                  | 29.5  |
| 9       | 18.0                 | 19.5  | 27.5                 | 29.5  | ..                    | ..    | -                         | 2.0   | 0.1                     | 1.2   | SW                      | SW    | -             | -     | 1.4                  | 1.2   | 26.5                  | 29.0  |
| 10      | 18.0                 | 22.0  | 29.0                 | 29.0  | ..                    | ..    | -                         | -     | -                       | 1.5   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 24.0                  | 27.5  |
| 11      | 17.0                 | 20.0  | 26.5                 | 27.5  | ..                    | ..    | 4.0                       | 8.0   | -                       | 3.2   | NE                      | SW    | -             | 9.0   | 1.2                  | 1.0   | 24.5                  | 22.5  |
| 12      | 18.5                 | 19.0  | 25.0                 | 25.5  | ..                    | ..    | 4.0                       | 6.0   | 0.4                     | 3.5   | NE                      | NE    | 0.4           | -     | -                    | 1.2   | 25.0                  | 25.5  |
| 13      | 18.5                 | 19.0  | 24.0                 | 25.0  | ..                    | ..    | -                         | 8.0   | 2.4                     | 7.6   | NE                      | NW    | 5.8           | -     | 0.8                  | -     | 23.5                  | 25.0  |
| 14      | 17.5                 | 19.0  | 24.0                 | 25.5  | ..                    | ..    | 6.0                       | 2.0   | 3.4                     | 4.6   | NW                      | NW    | 6.4           | -     | 0.4                  | -     | 24.5                  | 26.0  |
| 15      | 18.0                 | 19.5  | 26.0                 | 26.5  | ..                    | ..    | 2.0                       | 2.0   | 5.8                     | 2.3   | NW                      | NE    | -             | -     | -                    | 1.0   | 26.0                  | 29.5  |
| 16      | 18.5                 | 20.0  | 27.0                 | 27.0  | ..                    | ..    | -                         | 2.0   | 1.7                     | 3.2   | N                       | NW    | -             | -     | 1.2                  | 2.0   | 26.5                  | 29.0  |
| 17      | 18.5                 | 19.0  | 27.5                 | 28.0  | ..                    | ..    | -                         | 2.0   | -                       | 3.7   | NW                      | NW    | -             | -     | 1.0                  | 1.8   | 28.5                  | 29.5  |
| 18      | 19.0                 | 20.5  | 28.0                 | 28.5  | ..                    | ..    | -                         | 2.0   | 0.1                     | 2.6   | N                       | NE    | -             | -     | 1.4                  | 2.0   | 28.0                  | 30.0  |
| 19      | 20.0                 | 22.5  | 28.0                 | 30.0  | ..                    | ..    | 2.0                       | -     | 0.7                     | 2.7   | NW                      | SW    | -             | -     | 0.9                  | 1.5   | 26.5                  | 30.5  |
| 20      | 20.0                 | 21.0  | 30.5                 | 31.5  | ..                    | ..    | 2.0                       | -     | 0.3                     | 2.2   | NW                      | NE    | -             | -     | 1.2                  | 0.8   | 28.0                  | 31.0  |
| 21      | 19.0                 | 21.5  | 30.0                 | 32.0  | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 4.6   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 28.5                  | 32.0  |
| 22      | 21.5                 | 22.0  | 31.0                 | 32.5  | ..                    | ..    | 2.0                       | 2.0   | 0.4                     | 2.7   | NW                      | NW    | -             | -     | 0.9                  | 1.8   | 27.0                  | 32.5  |
| 23      | 21.0                 | 23.0  | 29.5                 | 33.5  | ..                    | ..    | 2.0                       | -     | 1.3                     | 2.4   | NW                      | W     | -             | -     | 0.8                  | 2.0   | 24.5                  | 33.5  |
| 24      | 23.0                 | 24.5  | 31.5                 | 32.0  | ..                    | ..    | 2.0                       | -     | 0.2                     | 0.2   | W                       | NW    | -             | -     | 1.0                  | 2.4   | 25.5                  | 37.0  |
| 25      | 25.0                 | 25.5  | 32.5                 | 33.5  | ..                    | ..    | 2.0                       | -     | 1.5                     | 3.0   | SE                      | NW    | -             | -     | 1.2                  | 2.0   | 29.5                  | 37.0  |
| 26      | 25.5                 | 26.0  | 33.0                 | 33.5  | ..                    | ..    | 4.0                       | 2.0   | 0.3                     | 2.9   | SW                      | W     | -             | -     | 1.0                  | 2.2   | 29.5                  | 35.5  |
| 27      | 24.0                 | 25.0  | 32.5                 | 33.5  | ..                    | ..    | 4.0                       | 2.0   | 0.3                     | 4.1   | NW                      | NE    | -             | -     | 1.4                  | 1.9   | 30.0                  | 34.5  |
| 28      | 25.0                 |       | 32.0                 |       | ..                    |       | -                         |       | 0.2                     |       | N                       |       | -             |       | 0.8                  |       | 28.5                  |       |
| Total   | 549.0                | 582.0 | 779.0                | 814.0 | .. *                  | .. *  | 44.0                      | 46.0  | 23.5                    | 69.0  |                         |       | 12.6          | 9.0   | 25.1                 | 43.2  | 678.0                 | 822.5 |
| Average | 19.6                 | 20.8  | 27.8                 | 29.1  | .. *                  | .. *  | 1.6                       | 1.6   | 0.8                     | 2.5   |                         |       |               |       |                      |       | 24.2                  | 29.4  |
|         | 20.2                 |       | 28.4                 |       | 0.0 *                 |       | 1.6                       |       | 1.7                     |       |                         |       | 21.6          |       | 68.3                 |       | 26.8                  |       |

## Twice Daily Climatic Data

Station Code : EMP70F3

Local River/Basin : Kharun

Station Name : Pathardih

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 26.5  |                      | 34.0   |                       | ..    |                           | 2.0   |                         | 4.2   |                         | NW    |               | -     |                      | 2.0   |                       | 36.0   |
| 1       | 24.0                 | 26.5  | 33.5                 | 35.0   | ..                    | ..    | 2.0                       | -     | 0.4                     | 3.2   | NE                      | NW    | -             | -     | 1.0                  | 2.2   | 28.0                  | 36.5   |
| 2       | 26.0                 | 27.0  | 34.0                 | 35.5   | ..                    | ..    | 2.0                       | -     | 0.3                     | 2.7   | NW                      | N     | -             | -     | 0.8                  | 1.8   | 28.5                  | 36.0   |
| 3       | 27.5                 | 27.5  | 34.5                 | 35.0   | ..                    | ..    | -                         | -     | 0.4                     | 2.3   | SW                      | N     | -             | -     | 1.4                  | 0.6   | 27.0                  | 37.5   |
| 4       | 26.5                 | 28.0  | 35.0                 | 37.5   | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 3.0   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 27.5                  | 37.0   |
| 5       | 26.0                 | 27.5  | 35.5                 | 36.0   | ..                    | ..    | 2.0                       | 4.0   | 0.4                     | 7.5   | NE                      | NE    | -             | -     | 0.8                  | 1.0   | 28.0                  | 36.5   |
| 6       | 24.5                 | 26.0  | 33.0                 | 35.5   | ..                    | ..    | 4.0                       | 2.0   | 1.8                     | 4.6   | NW                      | NW    | -             | -     | 1.0                  | 2.4   | 28.5                  | 36.0   |
| 7       | 24.0                 | 25.5  | 32.5                 | 34.0   | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 6.5   | NW                      | NE    | -             | -     | 1.2                  | 1.8   | 28.0                  | 35.5   |
| 8       | 24.0                 | 25.0  | 32.5                 | 33.5   | ..                    | ..    | 2.0                       | 4.0   | 0.5                     | 10.0  | N                       | NE    | -             | -     | 1.0                  | 0.9   | 27.5                  | 35.0   |
| 9       | 23.5                 | 25.5  | 30.0                 | 34.0   | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 3.7   | NW                      | N     | -             | -     | 0.4                  | 2.0   | 25.0                  | 36.0   |
| 10      | 23.0                 | 25.0  | 29.5                 | 34.5   | ..                    | ..    | 2.0                       | -     | 0.4                     | 3.0   | NE                      | N     | -             | -     | 0.8                  | 1.6   | 27.0                  | 35.5   |
| 11      | 25.5                 | 27.5  | 33.0                 | 35.0   | ..                    | ..    | -                         | 4.0   | 0.3                     | 3.7   | SW                      | SW    | -             | -     | 1.0                  | 2.2   | 29.0                  | 35.0   |
| 12      | 26.5                 | 27.5  | 34.5                 | 36.5   | ..                    | ..    | 4.0                       | -     | 0.6                     | 5.0   | SW                      | N     | -             | -     | 1.2                  | 2.0   | 29.5                  | 36.5   |
| 13      | 26.0                 | 28.0  | 34.0                 | 36.0   | ..                    | ..    | -                         | 2.0   | 0.5                     | 5.6   | NW                      | NW    | -             | -     | 0.6                  | 0.9   | 28.0                  | 35.5   |
| 14      | 26.5                 | 26.5  | 35.0                 | 35.0   | ..                    | ..    | -                         | -     | 0.5                     | 2.3   | N                       | NE    | -             | -     | 0.2                  | 2.0   | 27.0                  | 35.5   |
| 15      | 29.0                 | 29.5  | 35.5                 | 36.5   | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 4.7   | SW                      | NW    | -             | -     | 1.0                  | 2.4   | 27.0                  | 36.0   |
| 16      | 27.5                 | 29.0  | 33.5                 | 36.0   | ..                    | ..    | 2.0                       | 4.0   | 4.3                     | 3.4   | SE                      | SW    | -             | -     | 0.8                  | 2.0   | 24.5                  | 36.5   |
| 17      | 24.5                 | 27.5  | 29.5                 | 34.0   | ..                    | ..    | -                         | 2.0   | 1.2                     | 3.5   | NW                      | SE    | -             | -     | 0.9                  | 1.8   | 25.5                  | 35.5   |
| 18      | 25.0                 | 27.0  | 31.0                 | 34.5   | ..                    | ..    | 4.0                       | -     | 0.9                     | 5.0   | NW                      | N     | -             | -     | 1.2                  | 2.2   | 27.0                  | 35.0   |
| 19      | 24.5                 | 26.5  | 33.5                 | 35.0   | ..                    | ..    | 2.0                       | 2.0   | 0.4                     | 5.2   | NE                      | NW    | -             | -     | 1.0                  | 1.6   | 27.5                  | 34.5   |
| 20      | 25.0                 | 26.5  | 34.0                 | 35.0   | ..                    | ..    | -                         | -     | 0.2                     | 0.3   | N                       | W     | -             | -     | 0.6                  | 2.0   | 27.0                  | 34.5   |
| 21      | 25.5                 | 27.5  | 35.5                 | 36.5   | ..                    | ..    | -                         | -     | -                       | 0.4   | W                       | NE    | -             | -     | 1.0                  | 2.2   | 26.5                  | 35.0   |
| 22      | 27.0                 | 28.0  | 35.0                 | 37.0   | ..                    | ..    | 2.0                       | -     | 0.1                     | 0.6   | NW                      | SW    | -             | -     | 0.9                  | 2.6   | 27.5                  | 35.5   |
| 23      | 28.0                 | 29.5  | 36.0                 | 37.5   | ..                    | ..    | -                         | -     | -                       | 0.7   | W                       | N     | -             | -     | 0.4                  | 2.0   | 27.0                  | 36.0   |
| 24      | 27.5                 | 29.0  | 36.5                 | 38.0   | ..                    | ..    | 4.0                       | 2.0   | 0.7                     | 4.4   | NW                      | W     | -             | -     | -                    | 1.2   | 26.5                  | 36.5   |
| 25      | 28.0                 | 29.5  | 36.0                 | 37.5   | ..                    | ..    | 6.0                       | -     | 0.6                     | 6.6   | NW                      | NE    | -             | -     | 0.8                  | 2.2   | 26.0                  | 35.0   |
| 26      | 27.5                 | 30.0  | 36.0                 | 37.0   | ..                    | ..    | -                         | -     | 0.6                     | 3.6   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 36.0   |
| 27      | 27.5                 | 28.5  | 35.5                 | 36.5   | ..                    | ..    | 2.0                       | 2.0   | 0.1                     | 3.0   | S                       | NW    | -             | -     | 0.6                  | 1.9   | 27.5                  | 35.6   |
| 28      | 28.0                 | 30.5  | 35.0                 | 37.5   | ..                    | ..    | -                         | -     | 0.1                     | 1.6   | SE                      | NE    | -             | -     | 0.9                  | 2.2   | 27.0                  | 36.5   |
| 29      | 29.5                 | 31.0  | 36.5                 | 38.0   | ..                    | ..    | 2.0                       | -     | 0.2                     | 3.5   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 27.5                  | 36.0   |
| 30      | 27.0                 | 29.5  | 36.0                 | 37.5   | ..                    | ..    | 4.0                       | 2.0   | 0.3                     | 2.8   | SW                      | SW    | -             | -     | 1.2                  | 2.4   | 26.0                  | 37.5   |
| 31      | 27.5                 |       | 35.5                 |        | ..                    |       | 4.0                       |       | 0.4                     |       | NE                      |       | -             |       | 0.6                  |       | 26.5                  |        |
| Total   | 812.0                | 858.5 | 1057.0               | 1111.0 | .. *                  | .. *  | 58.0                      | 40.0  | 19.9                    | 116.6 |                         |       | -             | -     | 26.5                 | 57.7  | 841.0                 | 1111.6 |
| Average | 26.2                 | 27.7  | 34.1                 | 35.8   | .. *                  | .. *  | 1.9                       | 1.3   | 0.6                     | 3.8   |                         |       |               |       |                      |       | 27.1                  | 35.9   |
|         | 26.9                 |       | 35.0                 |        | 0.0 *                 |       | 1.6                       |       | 2.2                     |       |                         |       | 0.0           |       | 84.2                 |       | 31.5                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3

Local River/Basin : Kharun

Station Name : Pathardih

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

**Apr-18**

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
|---------|----------------------|-------|----------------------|--------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 30.0  |                      | 38.0   |                       | ..    |                           | 2.0   |                         | 3.0   |                         | S     |               | -     |                      | 1.8   |                       | 37.0   |
| 1       | 28.0                 | 29.5  | 36.5                 | 38.0   | ..                    | ..    | 2.0                       | 6.0   | 2.2                     | 5.2   | SW                      | NE    | -             | 0.6   | 1.0                  | -     | 27.0                  | 34.5   |
| 2       | 25.5                 | 28.5  | 33.5                 | 36.5   | ..                    | ..    | 4.0                       | -     | 3.2                     | 2.8   | NW                      | NE    | -             | -     | 0.4                  | 1.8   | 24.5                  | 35.0   |
| 3       | 26.0                 | 30.0  | 34.0                 | 36.0   | ..                    | ..    | -                         | -     | 0.1                     | 4.8   | NE                      | SW    | -             | -     | 0.8                  | 2.0   | 27.0                  | 36.5   |
| 4       | 26.5                 | 29.5  | 33.5                 | 37.5   | ..                    | ..    | -                         | 6.0   | -                       | 4.7   | NW                      | NW    | -             | -     | 1.0                  | 2.4   | 27.5                  | 37.0   |
| 5       | 28.0                 | 31.0  | 35.0                 | 37.0   | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 5.0   | NE                      | NE    | -             | 7.8   | 0.9                  | 0.8   | 28.5                  | 31.5   |
| 6       | 27.5                 | 28.5  | 34.0                 | 35.5   | ..                    | ..    | 4.0                       | 4.0   | 1.8                     | 6.5   | SW                      | SE    | -             | 12.4  | 0.6                  | 0.4   | 27.0                  | 30.5   |
| 7       | 25.0                 | 27.0  | 32.5                 | 34.0   | ..                    | ..    | -                         | 8.0   | 3.8                     | 5.1   | NE                      | SE    | -             | 3.4   | -                    | 0.4   | 26.5                  | 29.0   |
| 8       | 26.5                 | 29.0  | 32.0                 | 36.5   | ..                    | ..    | 2.0                       | -     | 3.2                     | 1.5   | SW                      | SW    | -             | -     | 0.6                  | 1.0   | 26.0                  | 31.5   |
| 9       | 27.0                 | 29.5  | 33.5                 | 36.0   | ..                    | ..    | -                         | 2.0   | 0.4                     | 3.1   | NW                      | NW    | -             | -     | 1.2                  | 2.0   | 28.5                  | 35.5   |
| 10      | 29.0                 | 30.0  | 35.0                 | 37.5   | ..                    | ..    | 2.0                       | 2.0   | 2.3                     | 3.2   | NW                      | NW    | -             | -     | 1.0                  | 3.0   | 28.0                  | 35.5   |
| 11      | 29.5                 | 30.5  | 37.0                 | 38.0   | ..                    | ..    | 2.0                       | -     | 1.5                     | 3.7   | SW                      | SW    | -             | -     | 1.0                  | 4.0   | 28.0                  | 36.0   |
| 12      | 30.0                 | 31.0  | 36.0                 | 37.5   | ..                    | ..    | 4.0                       | 8.0   | 1.3                     | 6.8   | NE                      | NW    | -             | -     | 0.6                  | 2.0   | 28.5                  | 35.5   |
| 13      | 29.0                 | 29.5  | 35.0                 | 35.5   | ..                    | ..    | -                         | 4.0   | 2.9                     | 4.3   | NE                      | NE    | 1.6           | -     | -                    | 0.6   | 27.5                  | 35.0   |
| 14      | 29.0                 | 30.0  | 35.0                 | 36.5   | ..                    | ..    | 2.0                       | 2.0   | 2.0                     | 6.2   | SW                      | NE    | 0.4           | 2.6   | 1.6                  | 2.0   | 26.0                  | 32.5   |
| 15      | 26.0                 | 26.0  | 33.5                 | 35.5   | ..                    | ..    | 2.0                       | -     | 2.7                     | 1.9   | SE                      | SW    | 8.6           | -     | 1.6                  | 2.0   | 26.0                  | 33.5   |
| 16      | 26.5                 | 26.5  | 35.5                 | 36.0   | ..                    | ..    | -                         | -     | 2.6                     | 1.9   | N                       | SW    | 11.6          | -     | 1.8                  | 3.0   | 27.5                  | 34.0   |
| 17      | 27.0                 | 27.5  | 36.0                 | 37.0   | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 5.4   | SW                      | SE    | -             | -     | 1.0                  | 3.4   | 30.5                  | 36.0   |
| 18      | 28.5                 | 30.0  | 37.5                 | 38.0   | ..                    | ..    | -                         | 2.0   | 1.0                     | 3.1   | NW                      | SW    | -             | -     | 1.8                  | 3.8   | 29.5                  | 36.5   |
| 19      | 31.5                 | 31.5  | 39.0                 | 39.5   | ..                    | ..    | 2.0                       | -     | 0.5                     | 3.4   | NW                      | NE    | -             | -     | 1.0                  | 3.2   | 30.5                  | 37.5   |
| 20      | 31.0                 | 32.0  | 38.5                 | 40.0   | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 4.4   | SW                      | SW    | -             | -     | 1.2                  | 3.0   | 30.0                  | 37.0   |
| 21      | 32.5                 | 33.5  | 40.0                 | 41.5   | ..                    | ..    | 2.0                       | 4.0   | 1.8                     | 3.4   | SW                      | NW    | -             | -     | 1.0                  | 3.4   | 31.0                  | 38.0   |
| 22      | 32.0                 | 32.5  | 39.5                 | 40.0   | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 3.8   | W                       | NW    | -             | -     | 1.6                  | 3.0   | 30.5                  | 37.5   |
| 23      | 31.5                 | 33.5  | 39.0                 | 40.0   | ..                    | ..    | 4.0                       | 2.0   | 0.4                     | 4.5   | NW                      | NW    | -             | -     | 1.2                  | 3.4   | 29.5                  | 37.0   |
| 24      | 31.0                 | 31.5  | 38.5                 | 39.0   | ..                    | ..    | -                         | -     | 0.7                     | 5.2   | NW                      | SW    | -             | -     | 1.0                  | 3.0   | 30.0                  | 38.0   |
| 25      | 31.0                 | 31.0  | 38.0                 | 39.0   | ..                    | ..    | 2.0                       | -     | 0.7                     | 1.7   | SW                      | N     | -             | -     | 1.0                  | 3.5   | 29.5                  | 30.5   |
| 26      | 31.5                 | 31.5  | 39.0                 | 40.0   | ..                    | ..    | 2.0                       | 2.0   | 1.5                     | 6.6   | SW                      | NE    | -             | -     | 1.0                  | 3.0   | 30.5                  | 39.5   |
| 27      | 30.5                 | 32.0  | 38.5                 | 39.5   | ..                    | ..    | 2.0                       | 4.0   | 2.8                     | 4.5   | SE                      | SW    | -             | -     | 1.2                  | 2.8   | 30.0                  | 39.0   |
| 28      | 29.5                 | 31.0  | 38.0                 | 38.5   | ..                    | ..    | 4.0                       | 2.0   | 2.7                     | 4.6   | SE                      | SW    | -             | -     | 1.4                  | 3.0   | 29.5                  | 38.5   |
| 29      | 30.5                 | 32.0  | 39.5                 | 39.5   | ..                    | ..    | 2.0                       | 2.0   | 3.7                     | 6.1   | NE                      | SW    | -             | -     | 1.8                  | 4.0   | 29.0                  | 38.0   |
| 30      | 30.5                 |       | 39.5                 |        | ..                    |       | 2.0                       |       | 2.5                     |       | SE                      |       | -             |       | 1.8                  |       | 29.5                  |        |
| Total   | 867.5                | 905.5 | 1092.0               | 1133.0 | .. *                  | .. *  | 54.0                      | 70.0  | 51.0                    | 126.4 |                         |       | 22.2          | 26.8  | 32.1                 | 71.7  | 853.5                 | 1063.0 |
| Average | 28.9                 | 30.2  | 36.4                 | 37.8   | .. *                  | .. *  | 1.8                       | 2.3   | 1.7                     | 4.2   |                         |       |               |       |                      |       | 28.5                  | 35.4   |
|         | 29.6                 |       | 37.1                 |        | 0.0 *                 |       | 2.1                       |       | 3.0                     |       |                         |       | 49.0          |       | 103.8                |       | 31.9                  |        |

## Twice Daily Climatic Data

Station Code : EMP70F3  
Local River/Basin : Kharun

Station Name : Pathardih  
Sub-Division : UMSD,CWC,Raipur  
- 0.0 .. N.A.

| May-18  |                      |        |                      |        |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|--------|----------------------|--------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |        | Max Temperature (°C) |        | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30  | 08:30                | 17:30  | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 31.5   |                      | 39.5   |                       | ..    |                           | 2.0   |                         | 4.5   |                         | SW    |               | -     |                      | 3.0   |                       | 39.0   |
| 1       | 31.5                 | 32.0   | 38.0                 | 43.5   | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 4.5   | SW                      | SW    | -             | -     | 1.0                  | 3.0   | 30.0                  | 40.0   |
| 2       | 31.0                 | 32.5   | 38.5                 | 42.5   | ..                    | ..    | 2.0                       | 4.0   | 2.8                     | 4.9   | SE                      | NE    | -             | -     | 1.8                  | 3.8   | 31.0                  | 39.5   |
| 3       | 32.5                 | 34.0   | 39.0                 | 41.5   | ..                    | ..    | 2.0                       | 4.0   | 2.4                     | 4.6   | NW                      | NW    | -             | -     | 1.2                  | 3.6   | 31.5                  | 38.5   |
| 4       | 33.0                 | 34.5   | 40.5                 | 43.0   | ..                    | ..    | -                         | 2.0   | 3.2                     | 3.8   | NE                      | NW    | -             | -     | 1.4                  | 2.8   | 32.0                  | 38.0   |
| 5       | 31.5                 | 32.0   | 40.5                 | 42.5   | ..                    | ..    | 2.0                       | 2.0   | 1.9                     | 3.8   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 30.5                  | 39.5   |
| 6       | 30.0                 | 33.0   | 39.0                 | 41.0   | ..                    | ..    | 2.0                       | 6.0   | 1.9                     | 4.3   | NE                      | SW    | -             | -     | 1.9                  | 2.4   | 31.5                  | 40.0   |
| 7       | 33.5                 | 34.5   | 41.5                 | 43.5   | ..                    | ..    | 2.0                       | -     | 2.0                     | 6.0   | SW                      | SW    | -             | -     | 1.6                  | 2.6   | 32.0                  | 40.5   |
| 8       | 30.5                 | 35.0   | 42.0                 | 42.5   | ..                    | ..    | 4.0                       | 2.0   | 4.5                     | 4.4   | SW                      | SW    | -             | -     | 1.2                  | 3.0   | 31.5                  | 41.5   |
| 9       | 34.0                 | 35.0   | 42.5                 | 42.5   | ..                    | ..    | -                         | 4.0   | 0.7                     | 3.2   | SW                      | SW    | -             | -     | 1.4                  | 3.2   | 32.0                  | 41.0   |
| 10      | 33.5                 | 34.5   | 42.0                 | 42.0   | ..                    | ..    | 2.0                       | 2.0   | 3.4                     | 4.5   | SW                      | SW    | -             | 0.6   | 1.0                  | 2.0   | 30.0                  | 40.5   |
| 11      | 34.5                 | 35.0   | 41.0                 | 41.0   | ..                    | ..    | 2.0                       | 4.0   | 1.8                     | 4.5   | SW                      | SW    | -             | -     | 1.2                  | 1.9   | 30.5                  | 35.5   |
| 12      | 33.0                 | 35.0   | 40.0                 | 41.5   | ..                    | ..    | 4.0                       | 2.0   | 2.7                     | 4.9   | SW                      | SW    | -             | -     | 1.6                  | 2.0   | 29.0                  | 35.5   |
| 13      | 29.5                 | 30.5   | 39.0                 | 40.0   | ..                    | ..    | 6.0                       | 2.0   | 6.8                     | 5.8   | SE                      | SW    | -             | -     | 1.0                  | 1.8   | 28.5                  | 36.0   |
| 14      | 30.0                 | 32.0   | 38.5                 | 39.5   | ..                    | ..    | 2.0                       | 4.0   | 3.3                     | 6.8   | SE                      | SW    | 10.4          | -     | 0.4                  | 2.2   | 28.0                  | 36.5   |
| 15      | 29.0                 | 30.0   | 38.0                 | 39.0   | ..                    | ..    | 2.0                       | 4.0   | 6.0                     | 4.7   | NE                      | NW    | -             | -     | 1.2                  | 2.0   | 28.5                  | 37.0   |
| 16      | 32.5                 | 33.0   | 39.0                 | 40.0   | ..                    | ..    | 6.0                       | 4.0   | 3.7                     | 7.3   | NE                      | NE    | -             | -     | 1.8                  | 2.2   | 30.5                  | 36.0   |
| 17      | 30.5                 | 32.5   | 37.5                 | 40.0   | ..                    | ..    | 2.0                       | -     | 1.8                     | 5.1   | NE                      | NW    | -             | -     | 1.0                  | 2.8   | 30.5                  | 35.5   |
| 18      | 32.0                 | 33.0   | 37.5                 | 40.0   | ..                    | ..    | 6.0                       | 4.0   | 3.6                     | 8.6   | SW                      | SW    | -             | -     | 1.4                  | 3.0   | 31.5                  | 37.0   |
| 19      | 33.5                 | 34.5   | 40.0                 | 42.5   | ..                    | ..    | 2.0                       | 2.0   | 3.8                     | 4.2   | SW                      | SW    | -             | -     | 1.0                  | 3.2   | 30.0                  | 39.0   |
| 20      | 34.5                 | 34.5   | 42.0                 | 42.5   | ..                    | ..    | 4.0                       | 2.0   | 3.2                     | 5.8   | SW                      | SW    | -             | -     | 1.4                  | 3.4   | 32.5                  | 40.0   |
| 21      | 35.5                 | 35.5   | 41.5                 | 42.0   | ..                    | ..    | 2.0                       | 4.0   | 3.7                     | 8.4   | SW                      | SW    | -             | -     | 1.6                  | 3.8   | 32.0                  | 42.5   |
| 22      | 35.0                 | 36.0   | 40.5                 | 42.5   | ..                    | ..    | 2.0                       | 8.0   | 4.1                     | 4.3   | SE                      | NW    | -             | -     | 1.2                  | 3.2   | 33.5                  | 41.5   |
| 23      | 34.0                 | 35.0   | 41.0                 | 42.5   | ..                    | ..    | 4.0                       | -     | 5.2                     | 4.6   | SE                      | NW    | -             | -     | 1.4                  | 3.4   | 34.0                  | 42.0   |
| 24      | 33.5                 | 35.5   | 42.5                 | 43.0   | ..                    | ..    | 2.0                       | 2.0   | 3.6                     | 5.3   | SE                      | NW    | -             | -     | 1.0                  | 3.0   | 34.5                  | 41.0   |
| 25      | 35.5                 | 35.5   | 41.5                 | 42.5   | ..                    | ..    | 4.0                       | 2.0   | 3.1                     | 5.5   | SW                      | SW    | -             | -     | 1.6                  | 4.0   | 33.5                  | 40.5   |
| 26      | 34.0                 | 35.0   | 41.0                 | 42.0   | ..                    | ..    | 2.0                       | 2.0   | 7.1                     | 4.3   | SW                      | SW    | -             | -     | 1.0                  | 3.8   | 31.0                  | 41.5   |
| 27      | 34.0                 | 33.5   | 41.5                 | 41.0   | ..                    | ..    | 2.0                       | 2.0   | 3.7                     | 5.4   | SE                      | SE    | -             | -     | 1.4                  | 4.0   | 32.5                  | 37.5   |
| 28      | 35.5                 | 36.0   | 40.5                 | 42.5   | ..                    | ..    | 4.0                       | 4.0   | 2.5                     | 6.9   | SW                      | SE    | -             | -     | 2.0                  | 3.4   | 34.0                  | 39.0   |
| 29      | 35.5                 | 35.5   | 42.5                 | 43.0   | ..                    | ..    | 4.0                       | 2.0   | 4.9                     | 6.4   | SW                      | SW    | -             | -     | 1.9                  | 2.0   | 33.5                  | 37.5   |
| 30      | 34.0                 | 35.0   | 41.0                 | 42.5   | ..                    | ..    | 2.0                       | -     | 1.9                     | 3.5   | NE                      | NE    | -             | -     | 1.2                  | 2.2   | 32.0                  | 39.0   |
| 31      | 33.5                 |        | 39.5                 |        | ..                    |       | 2.0                       |       | 6.4                     |       | NE                      |       | -             |       | 1.0                  |       | 31.5                  |        |
| Total   | 1020.0               | 1051.0 | 1249.0               | 1293.5 | .. *                  | .. *  | 84.0                      | 84.0  | 108.0                   | 160.7 |                         |       | 10.4          | 0.6   | 40.8                 | 88.7  | 973.5                 | 1208.0 |
| Average | 32.9                 | 33.9   | 40.3                 | 41.7   | .. *                  | .. *  | 2.7                       | 2.7   | 3.5                     | 5.2   |                         |       |               |       |                      |       | 31.4                  | 39.0   |
|         | 33.4                 |        | 41.0                 |        | 0.0 *                 |       | 2.7                       |       | 4.3                     |       |                         |       | 11.0          |       | 129.5                |       | 35.2                  |        |

# Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| June 2017 |                      |          |                      |          |                     |          |                   |         |                       |          |                           |        |                         |         |                         |       |               |       |                      |        |                       |         |
|-----------|----------------------|----------|----------------------|----------|---------------------|----------|-------------------|---------|-----------------------|----------|---------------------------|--------|-------------------------|---------|-------------------------|-------|---------------|-------|----------------------|--------|-----------------------|---------|
|           | Min Temperature (°C) |          | Max Temperature (°C) |          | Dry Bulb Temp. (°C) |          | Wet Bulb Temp. °C |         | Relative Humidity (%) |          | Inst. Wind Speed (kms/hr) |        | Av. Wind Speed (kms/hr) |         | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |         |
| Day       | 08:30                | 17:30    | 08:30                | 17:30    | 08:30               | 17:30    | 08:30             | 17:30   | 08:30                 | 17:30    | 08:30                     | 17:30  | 08:30                   | 17:30   | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30   |
| LPoPM     |                      |          |                      |          |                     |          |                   |         |                       |          |                           |        |                         |         |                         |       |               |       |                      |        |                       |         |
| 1         | 30.0                 | 31.0     | 31.0                 | 39.0     | 36.0                | 39.0     | 33.0              | 34.0    | 81.0                  | 71.0     | 2.0                       | 4.0    | 2.1                     | 4.3     | SE                      | SE    | -             | -     | 3.0                  | 3.0    | 30.0                  | 30.0    |
| 2         | 31.0                 | 32.0     | 32.0                 | 40.0     | 34.0                | 39.0     | 31.0              | 34.0    | 80.0                  | 71.0     | -                         | 4.0    | 2.7                     | 6.9     | NE                      | NW    | -             | -     | 2.0                  | 4.0    | 29.0                  | 32.0    |
| 3         | 32.0                 | 31.0     | 35.0                 | 41.0     | 35.0                | 39.0     | 31.0              | 34.0    | 75.0                  | 71.0     | 2.0                       | 2.0    | 1.2                     | 7.6     | SW                      | SW    | -             | -     | 2.0                  | 4.0    | 30.0                  | 33.0    |
| 4         | 31.0                 | 31.0     | 36.0                 | 42.0     | 35.0                | 39.0     | 31.0              | 33.0    | 75.0                  | 66.0     | 2.0                       | 6.0    | 1.7                     | 8.4     | SW                      | SE    | -             | 4.6   | 2.0                  | 0.6    | 30.0                  | 33.0    |
| 5         | 31.0                 | 31.0     | 36.0                 | 41.0     | 35.0                | 40.0     | 30.0              | 34.0    | 69.0                  | 66.0     | 2.0                       | 2.0    | 2.0                     | 6.7     | SE                      | SW    | 1.4           | -     | -                    | 6.6    | 29.0                  | 32.0    |
| 6         | 30.0                 | 31.0     | 32.0                 | 40.0     | 33.0                | 34.0     | 29.0              | 30.0    | 74.0                  | 74.0     | -                         | 2.0    | 2.4                     | 3.9     | SW                      | SW    | -             | 3.8   | 2.0                  | 3.0    | 29.0                  | 32.0    |
| 7         | 30.0                 | 31.0     | 34.0                 | 40.0     | 31.0                | 34.0     | 28.0              | 34.0    | 96.0                  | 96.0     | 4.0                       | 2.0    | 1.2                     | 5.6     | NE                      | SE    | -             | -     | 2.0                  | 3.0    | 28.0                  | 33.0    |
| 8         | 30.0                 | 31.0     | 35.0                 | 41.0     | 33.0                | 39.0     | 30.0              | 32.0    | 80.0                  | 61.0     | 2.0                       | 2.0    | 2.7                     | 3.0     | SW                      | NE    | -             | -     | 2.0                  | 3.0    | 30.0                  | 35.0    |
| 9         | 31.0                 | 40.0     | 35.0                 | 40.0     | 33.0                | 38.0     | 30.0              | 32.0    | 80.0                  | 64.0     | 2.0                       | 4.0    | 3.2                     | 5.5     | SE                      | NE    | -             | 2.0   | 2.0                  | 4.0    | 30.0                  | 30.0    |
| 10        | 30.0                 | 40.0     | 34.0                 | 42.0     | 31.0                | 40.0     | 29.0              | 37.0    | 36.0                  | 82.0     | 2.0                       | 2.0    | 2.0                     | 4.0     | NE                      | SW    | 5.6           | -     | 3.6                  | 3.0    | 31.0                  | 35.0    |
| 11        | 28.0                 | 38.0     | 30.0                 | 39.0     | 32.0                | 39.0     | 29.0              | 36.0    | 79.0                  | 82.0     | 2.0                       | 2.0    | 2.4                     | 3.0     | SW                      | SW    | -             | -     | 2.0                  | 3.0    | 29.0                  | 31.0    |
| 12        | 28.0                 | 38.0     | 32.0                 | 40.0     | 31.0                | 36.0     | 29.0              | 31.0    | 86.0                  | 69.0     | 2.0                       | 2.0    | 1.2                     | 4.4     | SE                      | SW    | -             | -     | 2.0                  | 3.0    | 30.0                  | 35.0    |
| 13        | 28.0                 | 39.0     | 31.0                 | 40.0     | 31.0                | 39.0     | 29.0              | 30.0    | 86.0                  | 51.0     | 2.0                       | 4.0    | 8.5                     | 5.6     | SW                      | NW    | 7.8           | -     | 2.0                  | 3.0    | 29.0                  | 35.0    |
| 14        | 31.0                 | 40.0     | 35.0                 | 41.0     | 31.0                | 36.0     | 29.0              | 30.0    | 86.0                  | 63.0     | 2.0                       | 4.0    | 1.4                     | 4.1     | SW                      | NW    | -             | -     | 2.0                  | 4.0    | 30.0                  | 35.0    |
| 15        | 30.0                 | 40.0     | 36.0                 | 42.0     | 34.0                | 37.0     | 29.0              | 32.0    | 68.0                  | 70.0     | 2.0                       | 2.0    | 2.9                     | 2.9     | NE                      | NE    | -             | 0.8   | 2.0                  | 4.8    | 31.0                  | 36.0    |
| 16        | 29.0                 | 39.0     | 36.0                 | 42.0     | 35.0                | 36.0     | 28.0              | 32.0    | 58.0                  | 75.0     | 2.0                       | -      | 2.0                     | 4.5     | NW                      | NE    | -             | -     | 2.0                  | 4.0    | 31.0                  | 35.0    |
| 17        | 30.0                 | 39.0     | 35.0                 | 42.0     | 35.0                | 38.0     | 27.0              | 33.0    | 53.0                  | 69.0     | 2.0                       | 2.0    | 1.1                     | 2.9     | NE                      | SE    | -             | -     | 2.0                  | 4.5    | 31.0                  | 37.0    |
| 18        | 29.0                 | 39.0     | 35.0                 | 42.0     | 35.0                | 39.0     | 29.0              | 33.0    | 63.0                  | 66.0     | -                         | 4.0    | 0.7                     | 4.3     | NE                      | SW    | -             | -     | 2.0                  | 4.0    | 32.0                  | 37.0    |
| 19        | 28.0                 | 38.0     | 35.0                 | 40.0     | 35.0                | 38.0     | 30.0              | 32.0    | 69.0                  | 64.0     | -                         | 4.0    | 4.1                     | 4.0     | SW                      | SW    | -             | -     | 2.0                  | 4.0    | 31.0                  | 35.0    |
| 20        | 29.0                 | 38.0     | 34.0                 | 41.0     | 34.0                | 39.0     | 30.0              | 33.0    | 74.0                  | 66.0     | 2.0                       | 2.0    | 3.7                     | 6.7     | SW                      | NW    | -             | -     | 2.0                  | 4.0    | 31.0                  | 35.0    |
| 21        | 29.0                 | 36.0     | 34.0                 | 40.0     | 35.0                | 38.0     | 29.0              | 32.0    | 63.0                  | 64.0     | -                         | 2.0    | 4.5                     | 5.7     | SW                      | SW    | -             | 0.6   | 2.0                  | 4.6    | 30.0                  | 32.0    |
| 22        | 28.0                 | 38.0     | 32.0                 | 40.0     | 33.0                | 38.0     | 28.0              | 32.0    | 68.0                  | 64.0     | 2.0                       | 4.0    | 2.3                     | 4.1     | SE                      | NE    | 2.6           | -     | 0.6                  | 2.6    | 29.0                  | 35.0    |
| 23        | 26.0                 | 39.0     | 32.0                 | 40.0     | 33.0                | 39.0     | 28.0              | 32.0    | 68.0                  | 61.0     | 3.0                       | 2.0    | 1.1                     | 6.6     | SE                      | SE    | 2.6           | -     | 0.6                  | 3.0    | 29.0                  | 35.0    |
| 24        | 29.0                 | 29.0     | 32.0                 | 40.0     | 33.0                | 38.0     | 29.0              | 31.0    | 74.0                  | 59.0     | 2.0                       | 2.0    | 1.7                     | 4.3     | SW                      | SE    | -             | -     | 2.0                  | 3.0    | 30.0                  | 35.0    |
| 25        | 28.0                 | 30.0     | 30.0                 | 40.0     | 30.0                | 30.0     | 29.0              | 30.0    | 93.0                  | 96.0     | 2.0                       | 4.0    | 2.4                     | 2.7     | SE                      | SE    | 17.2          | -     | 2.0                  | 3.0    | 30.0                  | 33.0    |
| 26        | 29.0                 | 30.0     | 30.0                 | 40.0     | 30.0                | 30.0     | 28.0              | 30.0    | 85.0                  | 96.0     | 2.0                       | 2.0    | 2.4                     | 4.3     | NE                      | SW    | -             | -     | 2.0                  | 1.0    | 30.0                  | 35.0    |
| 27        | 28.0                 | 30.0     | 30.0                 | 39.0     | 29.0                | 29.0     | 28.0              | 29.0    | 92.0                  | 96.0     | 2.0                       | 2.0    | 1.4                     | 3.2     | SE                      | SW    | -             | 1.4   | 2.0                  | 0.4    | 29.0                  | 29.0    |
| 28        | 28.0                 | 30.0     | 29.0                 | 41.0     | 29.0                | 30.0     | 28.0              | 30.0    | 92.0                  | 96.0     | 2.0                       | 2.0    | 1.6                     | 6.8     | SW                      | SW    | 3.8           | -     | 0.8                  | 1.0    | 29.0                  | 30.0    |
| 29        | 27.0                 | 28.0     | 28.0                 | 30.0     | 28.0                | 30.0     | 27.0              | 29.0    | 92.0                  | 93.0     | -                         | 2.0    | 1.7                     | 2.5     | SW                      | NE    | 3.0           | -     | 1.0                  | 1.0    | 29.0                  | 29.0    |
| 30        | 24.0                 |          | 26.5                 |          | 28.0                |          | 27.0              |         | 85.0                  |          | 2.0                       |        | 3.2                     |         | NE                      |       | 8.0           |       | 2.0                  |        | 29.0                  |         |
| Total     | 872.0                | 1007.0 * | 982.5                | 1165.0 * | 977.0               | 1060.0 * | 872.0             | 931.0 * | 2280.0                | 2122.0 * | 51.0                      | 78.0 * | 71.3                    | 138.4 * |                         |       | 52.0          | 13.2  | 55.6                 | 92.1 * | 895.0                 | 969.0 * |
| Average   | 29.1                 | 34.7 *   | 32.8                 | 40.2 *   | 32.6                | 36.6 *   | 29.1              | 32.1 *  | 76.0                  | 73.2 *   | 1.7                       | 2.7 *  | 2.4                     | 4.8 *   |                         |       |               |       |                      |        | 29.8                  | 33.4 *  |
|           | 31.9 *               |          | 36.5 *               |          | 34.6 *              |          | 30.6 *            |         | 74.6 *                |          | 2.2 *                     |        | 3.6 *                   |         |                         |       | 65.2 *        |       | 147.7 *              |        | 31.6 *                |         |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| July 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-----------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day       | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM       |                      | 27.0  |                      | 27.5  |                     | 30.0  |                   | 28.0  |                       | 85.0   |                           | -     |                         | 6.4   |                         | NE    |               | -     |                      | 1.0   |                       | 29.0  |
| 1         | 25.0                 | 26.0  | 27.0                 | 35.0  | 26.0                | 28.0  | 24.0              | 25.0  | 84.0                  | 77.0   | 2.0                       | 2.0   | 4.0                     | 4.4   | SW                      | SW    | -             | 17.0  | 2.0                  | 3.0   | 23.0                  | 27.0  |
| 2         | 24.0                 | 27.0  | 26.0                 | 37.0  | 25.0                | 30.0  | 23.0              | 28.0  | 84.0                  | 85.0   | 2.0                       | 4.0   | 1.6                     | 7.3   | SW                      | SW    | 0.4           | -     | 1.6                  | 2.0   | 24.0                  | 25.0  |
| 3         | 23.0                 | 23.0  | 26.0                 | 35.0  | 25.0                | 28.5  | 23.0              | 27.0  | 84.0                  | 85.0   | 2.0                       | 2.0   | 2.6                     | 6.5   | SW                      | NE    | -             | 1.0   | 2.0                  | 1.0   | 23.0                  | 27.0  |
| 4         | 22.0                 | 24.0  | 24.0                 | 35.0  | 25.0                | 31.0  | 24.0              | 29.0  | 92.0                  | 86.0   | 2.0                       | 2.0   | 2.5                     | 5.5   | SW                      | SW    | 3.0           | -     | 2.0                  | 3.0   | 22.0                  | 28.0  |
| 5         | 24.0                 | 23.0  | 26.0                 | 29.0  | 26.0                | 31.0  | 24.0              | 29.0  | 84.0                  | 86.0   | 2.0                       | 2.0   | 5.5                     | 7.6   | SW                      | SW    | -             | 4.2   | 2.0                  | 2.2   | 23.0                  | 27.0  |
| 6         | 24.0                 | 24.0  | 29.0                 | 31.0  | 28.0                | 33.0  | 26.0              | 30.0  | 85.0                  | 80.0   | 2.0                       | 2.0   | 1.6                     | 6.3   | NE                      | NE    | 1.0           | -     | -                    | 1.0   | 24.0                  | 28.0  |
| 7         | 23.0                 | 27.0  | 28.0                 | 33.0  | 28.0                | 32.0  | 26.0              | 30.0  | 85.0                  | 86.0   | -                         | 2.0   | 2.6                     | 5.6   | SW                      | SW    | 2.2           | -     | -                    | 2.0   | 23.0                  | 31.0  |
| 8         | 24.0                 | 26.0  | 29.0                 | 33.0  | 28.0                | 33.0  | 27.0              | 30.0  | 92.0                  | 80.0   | 2.0                       | -     | 3.3                     | 3.6   | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 25.0                  | 31.0  |
| 9         | 23.0                 | 26.0  | 28.0                 | 33.0  | 29.0                | 32.0  | 26.0              | 28.0  | 78.0                  | 73.0   | 2.0                       | 2.0   | 1.7                     | 4.8   | SW                      | SW    | 3.2           | -     | -                    | 3.0   | 24.0                  | 30.0  |
| 10        | 22.0                 | 24.0  | 28.0                 | 31.0  | 28.0                | 30.0  | 24.0              | 26.0  | 70.0                  | 78.0   | 2.0                       | 2.0   | 3.0                     | 3.6   | SW                      | SW    | 16.6          | 1.4   | 1.6                  | -     | 23.0                  | 30.0  |
| 11        | 21.0                 | 23.0  | 25.0                 | 28.0  | 29.0                | 27.0  | 22.0              | 26.0  | 52.0                  | 92.0   | 2.0                       | 2.0   | 3.5                     | 1.0   | SE                      | SE    | 4.0           | 1.2   | 1.0                  | -     | 23.0                  | 26.5  |
| 12        | 20.0                 | 22.0  | 26.0                 | 28.0  | 25.0                | 31.0  | 23.0              | 29.0  | 84.0                  | 86.0   | 2.0                       | 2.0   | 2.1                     | 5.6   | SE                      | SW    | 1.4           | -     | -                    | 1.0   | 22.0                  | 29.0  |
| 13        | 22.0                 | 22.5  | 23.0                 | 28.0  | 37.0                | 30.0  | 28.0              | 27.0  | 50.0                  | 78.0   | 2.0                       | -     | 1.1                     | 5.1   | SW                      | SW    | -             | 2.8   | 1.0                  | 0.5   | 23.0                  | 30.0  |
| 14        | 24.0                 | 24.0  | 26.0                 | 27.0  | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | -     | 1.2                     | 1.7   | SW                      | SE    | 11.2          | -     | 1.2                  | 2.0   | 24.0                  | 27.0  |
| 15        | 23.0                 | 24.0  | 26.0                 | 27.0  | 27.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 92.0   | -                         | 2.0   | 1.3                     | 3.8   | SE                      | SW    | 3.4           | -     | 0.4                  | -     | 23.0                  | 29.0  |
| 16        | 23.0                 | 25.0  | 27.0                 | 28.0  | 27.0                | 27.0  | 26.5              | 27.0  | 96.0                  | 96.0   | 2.0                       | 2.0   | 3.3                     | 3.9   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 25.0                  | 29.0  |
| 17        | 23.0                 | 24.0  | 28.5                 | 30.0  | 28.5                | 30.0  | 27.0              | 29.0  | 96.0                  | 93.0   | 2.0                       | -     | 1.5                     | 4.2   | SE                      | SW    | 6.2           | 4.8   | 2.6                  | 2.0   | 25.0                  | 31.0  |
| 18        | 24.0                 | 25.0  | 29.0                 | 31.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | 2.0                       | 2.0   | 2.4                     | 7.5   | SE                      | SW    | 42.0          | 3.6   | 2.2                  | 1.6   | 26.0                  | 30.0  |
| 19        | 24.0                 | 25.0  | 29.0                 | 30.0  | 28.0                | 29.0  | 26.5              | 28.0  | 88.0                  | 92.0   | 2.0                       | -     | 1.0                     | 2.9   | SW                      | SW    | 26.0          | 2.2   | 0.4                  | 0.2   | 27.0                  | 29.0  |
| 20        | 23.0                 | 24.0  | 24.0                 | 27.0  | 27.0                | 28.0  | 26.5              | 26.0  | 96.0                  | 85.0   | 2.0                       | 2.0   | 1.8                     | 2.7   | SE                      | SW    | -             | -     | 2.0                  | 2.0   | 25.0                  | 28.0  |
| 21        | 23.0                 | 24.0  | 25.0                 | 26.0  | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 2.5                     | 4.7   | SW                      | SW    | 11.2          | -     | 3.2                  | 3.0   | 27.5                  | 27.0  |
| 22        | 24.0                 | 25.0  | 26.0                 | 27.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.6                     | 3.0   | SW                      | SW    | 2.6           | -     | 1.6                  | 1.0   | 27.0                  | 29.0  |
| 23        | 23.0                 | 24.0  | 26.0                 | 27.0  | 25.0                | 28.0  | 23.0              | 26.5  | 84.0                  | 88.0   | 2.0                       | -     | 1.8                     | 5.2   | SW                      | SW    | 4.0           | 0.4   | 4.6                  | 4.0   | 26.0                  | 30.0  |
| 24        | 23.0                 | 23.0  | 26.0                 | 27.0  | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 2.0                     | 6.5   | SW                      | SW    | 0.4           | -     | 2.0                  | 1.0   | 27.0                  | 29.0  |
| 25        | 23.0                 | 23.0  | 26.5                 | 27.0  | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | 2.0   | 2.2                     | 8.2   | SW                      | SW    | -             | 1.0   | 2.0                  | -     | 25.0                  | 30.0  |
| 26        | 23.0                 | 23.0  | 27.0                 | 25.0  | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | -     | 4.6                     | 6.5   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 25.0                  | 28.0  |
| 27        | 23.0                 | 23.0  | 25.0                 | 25.0  | 26.0                | 28.0  | 22.0              | 26.0  | 69.0                  | 85.0   | 2.0                       | -     | 2.6                     | 6.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 25.0                  | 26.0  |
| 28        | 23.0                 | 25.0  | 25.0                 | 25.0  | 25.0                | 28.0  | 23.0              | 27.0  | 84.0                  | 92.0   | 2.0                       | 2.0   | 1.9                     | 4.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 25.0                  | 26.0  |
| 29        | 24.0                 | 24.0  | 28.0                 | 25.0  | 30.0                | 22.0  | 28.0              | 21.0  | 85.0                  | 91.0   | 2.0                       | -     | 1.0                     | 5.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 25.5                  | 29.0  |
| 30        | 24.0                 | 26.0  | 27.0                 | 30.0  | 23.0                | 31.0  | 22.5              | 29.0  | 96.0                  | 86.0   | 2.0                       | -     | 2.0                     | 9.4   | SW                      | SW    | -             | 9.8   | 2.0                  | 1.8   | 26.5                  | 30.0  |
| 31        | 24.0                 |       | 27.0                 |       | 24.0                |       | 23.0              |       | 91.0                  |        | 2.0                       |       | 3.2                     |       | SW                      |       | -             |       | 1.0                  |       | 26.5                  |       |
| Total     | 718.0                | 755.5 | 823.0                | 907.5 | 837.5               | 909.5 | 773.0             | 846.5 | 2629.0                | 2640.0 | 54.0                      | 38.0  | 72.1                    | 159.8 |                         |       | 138.8         | 49.4  | 46.4                 | 50.3  | 763.0                 | 885.5 |
| Average   | 23.2                 | 24.4  | 26.5                 | 29.3  | 27.0                | 29.3  | 24.9              | 27.3  | 84.8                  | 85.2   | 1.7                       | 1.2   | 2.3                     | 5.2   |                         |       |               |       |                      |       | 24.6                  | 28.6  |
|           | 23.8                 |       | 27.9                 |       | 28.2                |       | 26.1              |       | 85.0                  |        | 1.5                       |       | 3.7                     |       |                         |       | 188.2         |       | 96.7                 |       | 26.6                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| August 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|             | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day         | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM         |                      | -     |                      | -     |                     | -     |                   | -     |                       | -      |                           | -     |                         | -     |                         | SW    |               | -     |                      | -     |                       | -     |
| 1           | 26.0                 | 27.0  | 26.0                 | 35.0  | 30.0                | 30.0  | 28.0              | 30.0  | 85.0                  | -      | 2.0                       | 2.0   | 0.9                     | 2.8   | SW                      | SW    | -             | 3.0   | 3.0                  | 1.0   | 27.0                  | 32.0  |
| 2           | 25.0                 | 27.0  | 30.0                 | 33.0  | 29.0                | 29.0  | 26.0              | 26.0  | 78.0                  | 78.0   | 2.0                       | 2.0   | 2.8                     | 6.8   | NE                      | SW    | -             | -     | -                    | 1.0   | 26.0                  | 29.0  |
| 3           | 25.0                 | 25.0  | 32.0                 | 32.0  | 29.0                | 32.0  | 27.0              | 29.0  | 85.0                  | 79.0   | 2.0                       | 2.0   | 2.0                     | 0.2   | SW                      | SW    | -             | 2.8   | 2.8                  | 1.0   | 27.0                  | 29.0  |
| 4           | 24.0                 | 25.0  | 30.0                 | 30.0  | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 79.0   | -                         | 2.0   | 5.6                     | 8.8   | SW                      | SW    | 1.4           | -     | -                    | 1.0   | 26.0                  | 29.0  |
| 5           | 25.0                 | 24.0  | 29.0                 | 29.0  | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 2.3                     | 2.7   | SW                      | NE    | 1.0           | -     | -                    | 1.0   | 27.0                  | 30.0  |
| 6           | 24.0                 | 25.0  | 28.0                 | 27.0  | 28.0                | 30.0  | 27.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 2.2                     | 3.3   | SW                      | SW    | -             | 4.2   | 4.2                  | 1.0   | 26.0                  | 29.0  |
| 7           | 24.0                 | 25.0  | 28.0                 | 29.0  | 25.0                | 30.0  | 25.0              | 28.0  | -                     | 85.0   | -                         | 2.0   | 1.5                     | 2.0   | SW                      | SE    | 6.2           | 4.0   | 0.4                  | 0.2   | 26.0                  | 29.0  |
| 8           | 23.0                 | 25.0  | 27.0                 | 29.0  | 26.0                | 30.0  | 26.0              | 27.0  | -                     | 78.0   | -                         | -     | 0.9                     | 2.9   | SW                      | SW    | 1.2           | -     | -                    | -     | 26.0                  | 29.0  |
| 9           | 24.0                 | 25.0  | 27.0                 | 28.0  | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 1.4                     | 2.6   | SW                      | SW    | 1.0           | 7.0   | 7.0                  | -     | 26.0                  | 30.0  |
| 10          | 24.0                 | 25.0  | 27.0                 | 28.0  | 27.0                | 30.0  | 26.0              | 25.0  | 92.0                  | 65.0   | -                         | -     | 2.4                     | 3.1   | SW                      | SW    | -             | -     | -                    | 1.0   | 26.0                  | 27.0  |
| 11          | 24.0                 | 25.0  | 27.0                 | 28.0  | 27.0                | 31.0  | 25.5              | 28.5  | 88.0                  | 82.0   | 2.0                       | 2.0   | 1.4                     | 6.1   | SW                      | SW    | 0.6           | -     | -                    | 1.0   | 27.0                  | 28.0  |
| 12          | 24.0                 | 25.0  | 28.0                 | 28.0  | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | 2.0                       | -     | 3.4                     | 5.9   | SW                      | SW    | 2.2           | -     | -                    | 1.0   | 25.5                  | 26.0  |
| 13          | 25.0                 | 24.0  | 28.0                 | 28.0  | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 86.0   | -                         | -     | 1.2                     | 4.8   | SW                      | SE    | -             | -     | -                    | 2.0   | 25.0                  | 27.0  |
| 14          | 24.0                 | 24.0  | 29.0                 | 28.0  | 29.0                | 30.0  | 26.0              | 28.0  | 78.0                  | 85.0   | 2.0                       | -     | 1.4                     | 3.2   | SW                      | SW    | -             | 1.6   | 1.6                  | -     | 26.0                  | 27.0  |
| 15          | 25.0                 | 24.0  | 29.0                 | 30.0  | 29.0                | 31.0  | 26.5              | 29.0  | 81.0                  | 86.0   | 2.0                       | -     | 1.0                     | 3.4   | SW                      | SW    | -             | 0.4   | 0.4                  | 2.0   | 26.0                  | 29.0  |
| 16          | 25.0                 | 25.0  | 29.0                 | 30.0  | 29.0                | 33.0  | 27.5              | 30.5  | 89.0                  | 83.0   | 2.0                       | 2.0   | 1.5                     | 3.3   | SE                      | NE    | -             | -     | -                    | 2.0   | 29.0                  | 25.0  |
| 17          | 26.0                 | 25.0  | 29.0                 | 28.0  | 29.0                | 28.5  | 27.5              | 26.5  | 89.0                  | 85.0   | 2.0                       | 2.0   | 1.1                     | 2.9   | NE                      | NE    | -             | 20.4  | 20.4                 | 1.0   | 28.0                  | 28.0  |
| 18          | 25.5                 | 24.0  | 27.0                 | 27.0  | 27.0                | 30.0  | 26.0              | 25.0  | 92.0                  | 65.0   | -                         | -     | 1.0                     | 3.4   | NE                      | NE    | -             | 3.8   | 3.8                  | -     | 27.0                  | 30.0  |
| 19          | 24.0                 | 24.0  | 26.0                 | 26.0  | 27.0                | 30.0  | 26.0              | 26.0  | 92.0                  | 72.0   | 2.0                       | 2.0   | 2.2                     | 8.1   | NE                      | SW    | 2.3           | 1.2   | 1.2                  | 1.2   | 26.0                  | 30.0  |
| 20          | 25.0                 | 24.0  | 27.0                 | 26.0  | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | -     | 5.2                     | 4.2   | SW                      | SW    | 3.2           | 7.4   | 7.4                  | -     | 26.0                  | 26.5  |
| 21          | 24.0                 | 29.0  | 26.0                 | 29.0  | 25.0                | 30.0  | 25.0              | 27.0  | -                     | 78.0   | -                         | -     | 1.3                     | -     | NE                      | SW    | -             | -     | -                    | 0.4   | 27.0                  | 31.0  |
| 22          | 25.0                 | 29.0  | 27.0                 | 29.0  | 27.5                | 30.0  | 25.0              | 30.0  | 81.0                  | -      | -                         | 2.0   | 0.7                     | 3.4   | NE                      | SW    | 1.4           | -     | -                    | 1.0   | 27.0                  | 32.0  |
| 23          | 25.0                 | 25.0  | 30.0                 | 26.0  | 28.0                | 32.0  | 25.0              | 29.0  | 77.0                  | 79.0   | 2.0                       | -     | 0.3                     | 3.2   | NE                      | SW    | -             | -     | -                    | 0.2   | 26.0                  | 28.0  |
| 24          | 25.0                 | 25.0  | 28.0                 | 28.0  | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 79.0   | -                         | 2.0   | 0.9                     | 2.6   | SE                      | SW    | 30.4          | 9.4   | 9.4                  | 1.2   | 26.5                  | 30.0  |
| 25          | 25.0                 | 23.0  | 28.0                 | 28.0  | 29.0                | 30.0  | 20.0              | 26.0  | 44.0                  | 72.0   | -                         | 2.0   | 0.8                     | 1.5   | SW                      | NE    | 44.2          | -     | -                    | 1.0   | 27.5                  | 31.0  |
| 26          | 25.0                 | 23.0  | 30.0                 | 28.0  | 30.0                | 30.0  | 30.0              | 28.0  | -                     | 85.0   | 2.0                       | -     | 0.7                     | 2.0   | NE                      | NW    | -             | -     | -                    | 2.0   | 27.5                  | 30.0  |
| 27          | 25.0                 | 25.0  | 27.0                 | 31.0  | 30.0                | 30.0  | 29.0              | 30.0  | 93.0                  | -      | -                         | -     | 0.8                     | 2.5   | NE                      | NW    | -             | -     | -                    | 2.2   | 27.5                  | 30.0  |
| 28          | 25.0                 | 25.0  | 30.0                 | 30.0  | 30.0                | 30.0  | 27.0              | 30.0  | 78.0                  | -      | -                         | -     | 1.2                     | 2.8   | SE                      | SE    | 30.2          | 2.2   | 2.2                  | 0.2   | 27.5                  | 31.0  |
| 29          | 25.0                 | 25.0  | 30.0                 | 30.0  | 30.0                | 30.0  | 26.0              | 30.0  | 72.0                  | -      | 2.0                       | -     | 2.4                     | 4.7   | SE                      | SE    | 5.8           | -     | -                    | 1.4   | 27.5                  | 30.0  |
| 30          | 25.0                 | 25.0  | 30.0                 | 30.0  | 30.0                | 32.0  | 26.0              | 26.0  | 72.0                  | 61.0   | -                         | -     | 0.7                     | 1.9   | SE                      | SE    | 13.4          | -     | -                    | 13.4  | 27.5                  | 30.0  |
| 31          | 26.0                 |       | 30.0                 |       | 30.0                |       | 26.0              |       | 72.0                  |        | -                         |       | 0.8                     |       | SE                      |       | 1.0           |       | 11.6                 |       | 28.0                  |       |
| Total       | 766.5                | 751.0 | 879.0                | 868.0 | 874.5               | 911.5 | 814.0             | 837.5 | 2260.0                | 1973.0 | 28.0                      | 24.0  | 51.7                    | 104.7 |                         |       | 145.5         | 67.4  | 75.4                 | 40.4  | 828.0                 | 872.5 |
| Average     | 24.7                 | 24.2  | 28.4                 | 28.0  | 28.2                | 29.4  | 26.3              | 27.0  | 72.9                  | 63.6   | 0.9                       | 0.8   | 1.7                     | 3.4   |                         |       |               |       |                      |       | 26.7                  | 28.1  |
|             | 24.5                 |       | 28.2                 |       | 28.8                |       | 26.6              |       | 68.3                  |        | 0.8                       |       | 2.5                     |       |                         |       | 212.9         |       | 115.8                |       | 27.4                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| September 2017 |                      |       |                      |       |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|----------------|----------------------|-------|----------------------|-------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|                | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day            | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM            |                      | 25.0  |                      | 30.0  |                     | 30.0   |                   | 26.0  |                       | 72.0   |                           | -     |                         | 4.3   |                         | SE    |               | 11.6  |                      | -     |                       | -     |
| 1              | 23.0                 | 25.0  | 26.0                 | 30.0  | 30.0                | 33.0   | 26.0              | 30.0  | 72.0                  | 80.0   | -                         | -     | 0.9                     | 3.1   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 30.0  |
| 2              | 25.0                 | 26.0  | 30.0                 | 31.0  | 30.0                | 33.0   | 27.0              | 30.0  | 78.0                  | 80.0   | 2.0                       | -     | 1.1                     | 3.9   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 31.0  |
| 3              | 24.0                 | 26.0  | 30.0                 | 31.0  | 31.0                | 35.0   | 27.0              | 31.0  | 73.0                  | 75.0   | 2.0                       | -     | 1.3                     | 2.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 32.0  |
| 4              | 25.0                 | 26.0  | 32.0                 | 32.0  | 31.0                | 36.0   | 28.0              | 31.0  | 79.0                  | 69.0   | 2.0                       | 2.0   | 0.8                     | 3.8   | NW                      | SW    | -             | -     | 1.0                  | 4.0   | 28.0                  | 34.5  |
| 5              | 26.0                 | 26.0  | 32.0                 | 32.0  | 32.0                | 36.0   | 28.5              | 31.0  | 70.0                  | 69.0   | 2.0                       | -     | 0.8                     | 2.5   | SW                      | SW    | -             | -     | 1.0                  | 4.0   | 28.0                  | 34.0  |
| 6              | 26.0                 | 27.0  | 33.0                 | 34.0  | 33.0                | 35.0   | 29.0              | 32.0  | 74.0                  | 81.0   | -                         | -     | 0.5                     | 0.1   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 28.0                  | 32.0  |
| 7              | 26.0                 | 26.0  | 32.0                 | 32.0  | 33.0                | 35.0   | 28.0              | 31.0  | 68.0                  | 75.0   | -                         | -     | -                       | 0.1   | NE                      | NE    | -             | -     | 1.0                  | 4.0   | 27.0                  | 32.0  |
| 8              | 26.0                 | 26.0  | 32.0                 | 33.0  | 33.0                | 35.0   | 29.0              | 30.0  | 74.0                  | 69.0   | -                         | -     | 0.1                     | 0.4   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 31.0  |
| 9              | 25.0                 | 25.0  | 29.0                 | 30.0  | 31.0                | 32.0   | 29.0              | 29.0  | 86.0                  | 79.0   | -                         | -     | -                       | 0.8   | SE                      | NE    | -             | 1.6   | 1.0                  | -     | 27.5                  | 32.0  |
| 10             | 24.0                 | 25.0  | 28.0                 | 30.0  | 30.0                | 35.0   | 28.0              | 30.0  | 85.0                  | 69.0   | -                         | -     | 0.1                     | 0.7   | SE                      | NE    | -             | -     | 1.0                  | 1.0   | 27.0                  | 33.0  |
| 11             | 26.0                 | 26.0  | 30.0                 | 31.0  | 32.0                | 32.0   | 28.0              | 29.0  | 73.0                  | 79.0   | -                         | -     | 0.4                     | 2.7   | SE                      | NE    | -             | -     | 1.0                  | 4.0   | 27.5                  | 29.0  |
| 12             | 25.0                 | 26.0  | 28.0                 | 30.0  | 30.0                | 34.0   | 27.0              | 30.0  | 78.0                  | 74.0   | -                         | -     | 0.3                     | 3.4   | SE                      | NE    | 1.0           | 1.2   | 1.0                  | 1.0   | 26.5                  | 31.0  |
| 13             | 25.0                 | 26.0  | 29.0                 | 30.0  | 30.0                | 34.0   | 27.0              | 30.0  | 78.0                  | 74.0   | -                         | -     | 0.2                     | 1.3   | SE                      | SE    | -             | 5.2   | 2.0                  | 1.2   | 27.5                  | 31.0  |
| 14             | 24.0                 | 24.0  | 28.0                 | 29.0  | 31.0                | 32.0   | 26.0              | 26.0  | 67.0                  | 61.0   | -                         | -     | 0.3                     | 3.3   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 26.5                  | 30.0  |
| 15             | 25.0                 | 25.0  | 29.0                 | 30.0  | 31.0                | 33.0   | 28.0              | 28.0  | 79.0                  | 68.0   | -                         | -     | 0.6                     | 1.8   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 28.0  |
| 16             | 25.0                 | 26.0  | 29.0                 | 30.0  | 30.0                | 34.0   | 28.0              | 30.0  | 85.0                  | 74.0   | -                         | -     | 0.2                     | 2.6   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 27.5                  | 28.0  |
| 17             | 26.0                 | 26.0  | 30.0                 | 30.0  | 33.0                | 33.0   | 29.0              | 29.0  | 74.0                  | 74.0   | -                         | 2.0   | 0.6                     | 2.2   | SE                      | SE    | -             | 2.2   | 2.0                  | 2.2   | 27.5                  | 29.0  |
| 18             | 24.0                 | 27.0  | 29.0                 | 30.0  | 30.0                | 32.0   | 28.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | -     | 1.1                     | 3.0   | SE                      | NE    | 0.4           | 1.8   | 2.0                  | 0.2   | 27.0                  | 29.0  |
| 19             | 24.0                 | 27.0  | 28.0                 | 30.0  | 30.0                | 30.0   | 26.0              | 28.0  | 72.0                  | 85.0   | -                         | -     | 1.2                     | 2.4   | SW                      | NE    | -             | 20.6  | 1.0                  | 0.8   | 26.0                  | 30.0  |
| 20             | 22.0                 | 22.0  | 24.0                 | 26.0  | 29.0                | 30.0   | 22.0              | 26.0  | 52.0                  | 72.0   | -                         | -     | 1.3                     | 2.9   | SW                      | SW    | 19.8          | 1.4   | 0.8                  | 1.4   | 29.0                  | 30.0  |
| 21             | 22.0                 | 22.0  | 25.0                 | 27.0  | 27.0                | 32.0   | 22.0              | 30.0  | 63.0                  | 86.0   | -                         | -     | 0.9                     | 2.1   | SE                      | SE    | 0.8           | -     | 1.0                  | 1.0   | 30.0                  | 30.5  |
| 22             | 23.0                 | 24.0  | 25.0                 | 28.0  | 29.0                | 32.0   | 24.0              | 29.0  | 64.0                  | 79.0   | 2.0                       | -     | 0.9                     | 1.6   | SE                      | SE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 28.0  |
| 23             | 23.0                 | 23.0  | 27.0                 | 30.0  | 29.0                | 33.0   | 26.0              | 29.0  | 78.0                  | 74.0   | 2.0                       | -     | 0.3                     | 2.1   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 30.0  |
| 24             | 25.0                 | 25.0  | 30.0                 | 31.0  | 30.0                | 35.0   | 27.0              | 29.0  | 78.0                  | 63.0   | 2.0                       | -     | 0.7                     | 2.7   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 26.5                  | 30.0  |
| 25             | 24.0                 | 26.0  | 30.0                 | 31.0  | 31.0                | 35.0   | 28.0              | 29.0  | 79.0                  | 63.0   | -                         | -     | 0.7                     | 2.7   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 30.0  |
| 26             | 25.0                 | 26.0  | 30.0                 | 30.0  | 30.0                | 35.0   | 27.0              | 29.0  | 78.0                  | 63.0   | -                         | -     | 0.4                     | 3.9   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.5                  | 30.0  |
| 27             | 25.0                 | 26.0  | 30.0                 | 32.0  | 30.0                | 36.0   | 27.0              | 30.0  | 78.0                  | 63.0   | -                         | -     | 0.2                     | 3.4   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 30.0  |
| 28             | 24.0                 | 26.0  | 30.0                 | 31.0  | 32.0                | 32.0   | 28.0              | 28.0  | 73.0                  | 73.0   | -                         | -     | 1.0                     | 2.2   | SE                      | SE    | -             | 2.2   | 1.0                  | 1.2   | 27.0                  | 28.0  |
| 29             | 24.0                 | 26.0  | 28.0                 | 30.0  | 30.0                | 33.0   | 27.0              | 30.0  | 78.0                  | 80.0   | -                         | -     | 0.6                     | 1.5   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 27.0                  | 29.0  |
| 30             | 25.0                 |       | 30.0                 |       | 30.0                |        | 26.0              |       | 72.0                  |        | -                         |       | 0.5                     |       | NE                      |       | -             |       | 1.0                  |       | 27.0                  |       |
| Total          | 736.0                | 762.0 | 873.0                | 911.0 | 918.0               | 1002.0 | 810.5             | 878.0 | 2243.0                | 2196.0 | 16.0                      | 4.0   | 18.0                    | 70.3  |                         |       | 22.0          | 47.8  | 33.8                 | 53.0  | 821.5                 | 882.0 |
| Average        | 24.5                 | 25.4  | 29.1                 | 30.4  | 30.6                | 33.4   | 27.0              | 29.3  | 74.8                  | 73.2   | 0.5                       | 0.1   | 0.6                     | 2.3   |                         |       |               |       |                      |       | 27.4                  | 29.4  |
|                | 25.0                 |       | 29.7                 |       | 32.0                |        | 28.1              |       | 74.0                  |        | 0.3                       |       | 1.5                     |       |                         |       | 69.8          |       | 86.8                 |       | 28.4                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| October 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM          |                      | 22.0  |                      | 28.0  |                     | 28.0  |                   | 26.0  |                       | 85.0   |                           | -     |                         | 1.0   |                         | SE    |               | -     |                      | 2.0   |                       | 29.5  |
| 1            | 21.0                 | 24.0  | 26.0                 | 28.0  | 27.0                | 30.0  | 20.0              | 25.0  | 50.0                  | 65.0   | -                         | 2.0   | 0.4                     | 1.0   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 24.0                  | 26.0  |
| 2            | 20.0                 | 20.0  | 25.0                 | 26.0  | 26.0                | 28.0  | 22.0              | 25.5  | 69.0                  | 81.0   | -                         | -     | 2.5                     | 3.4   | NE                      | SE    | 1.4           | -     | 1.0                  | 1.0   | 24.0                  | 26.0  |
| 3            | 20.0                 | 20.0  | 24.0                 | 25.0  | 25.0                | 27.0  | 23.0              | 24.5  | 84.0                  | 81.0   | 2.0                       | -     | 0.3                     | 3.6   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 19.0                  | 25.0  |
| 4            | 20.0                 | 20.0  | 24.0                 | 25.0  | 23.5                | 27.0  | 22.0              | 25.0  | 87.0                  | 84.0   | -                         | -     | 0.9                     | 4.7   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 19.0                  | 26.0  |
| 5            | 20.0                 | 20.0  | 25.0                 | 25.0  | 24.0                | 28.0  | 22.0              | 25.0  | 83.0                  | 77.0   | -                         | -     | 1.0                     | 3.6   | NE                      | SE    | -             | 2.8   | 1.0                  | 1.0   | 19.0                  | 26.0  |
| 6            | 20.0                 | 20.0  | 25.0                 | 25.0  | 24.0                | 28.0  | 22.0              | 25.0  | 83.0                  | 77.0   | 2.0                       | -     | 0.2                     | 2.7   | NE                      | SE    | -             | 4.6   | 1.0                  | 0.5   | 19.5                  | 26.0  |
| 7            | 18.0                 | 19.0  | 24.0                 | 25.0  | 24.0                | 28.0  | 22.0              | 25.0  | 83.0                  | 77.0   | -                         | -     | 0.7                     | 2.4   | NE                      | SE    | -             | -     | 1.0                  | 1.8   | 19.0                  | 26.5  |
| 8            | 19.0                 | 20.0  | 25.0                 | 25.0  | 24.0                | 28.0  | 22.0              | 25.0  | 83.0                  | 77.0   | 2.0                       | -     | 0.2                     | 1.6   | NE                      | SE    | -             | 23.8  | 0.5                  | 1.0   | 20.5                  | 26.5  |
| 9            | 19.0                 | 19.0  | 25.0                 | 25.0  | 24.5                | 28.0  | 22.0              | 25.0  | 80.0                  | 77.0   | -                         | -     | 0.1                     | 1.5   | NE                      | SE    | -             | -     | 0.3                  | 1.0   | 19.5                  | 26.5  |
| 10           | 19.0                 | 19.0  | 24.0                 | 25.0  | 22.0                | 27.0  | 20.5              | 23.0  | 87.0                  | 70.0   | 2.0                       | -     | 0.1                     | 3.4   | NE                      | SE    | -             | -     | 0.5                  | 0.8   | 18.0                  | 24.5  |
| 11           | 18.0                 | 19.0  | 22.0                 | 23.0  | 23.0                | 26.5  | 20.5              | 23.0  | 79.0                  | 73.0   | 2.0                       | -     | 0.4                     | 2.3   | NE                      | SE    | -             | -     | 0.6                  | 1.0   | 18.0                  | 24.0  |
| 12           | 18.0                 | 18.0  | 22.0                 | 23.0  | 23.0                | 25.0  | 20.0              | 22.0  | 75.0                  | 76.0   | 2.0                       | 2.0   | 0.8                     | 2.2   | NE                      | SE    | -             | -     | 0.5                  | 1.2   | 18.0                  | 24.0  |
| 13           | 18.0                 | 18.0  | 22.0                 | 23.0  | 22.0                | 25.0  | 20.0              | 22.0  | 82.0                  | 76.0   | 2.0                       | 2.0   | 0.8                     | 2.6   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 24.0  |
| 14           | 17.5                 | 17.5  | 23.0                 | 23.5  | 22.0                | 26.5  | 20.5              | 24.0  | 87.0                  | 81.0   | 2.0                       | 2.0   | 0.7                     | 4.1   | NE                      | SW    | -             | -     | 0.5                  | 0.5   | 17.0                  | 24.0  |
| 15           | 20.0                 | 20.0  | 23.0                 | 24.0  | 24.0                | 26.0  | 22.0              | 25.0  | 83.0                  | 92.0   | 2.0                       | 2.0   | 3.1                     | 3.3   | SW                      | SW    | -             | -     | 0.5                  | 0.5   | 18.0                  | 23.0  |
| 16           | 19.0                 | 20.0  | 23.0                 | 24.0  | 23.0                | 26.5  | 22.0              | 26.0  | 91.0                  | 96.0   | 2.0                       | -     | 3.3                     | 4.4   | NE                      | SW    | -             | -     | 0.5                  | 0.5   | 20.0                  | 24.0  |
| 17           | 20.0                 | 20.0  | 24.0                 | 24.5  | 24.0                | 26.5  | 23.0              | 26.0  | 91.0                  | 96.0   | 2.0                       | -     | 2.4                     | 4.0   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 22.0                  | 24.0  |
| 18           | 20.0                 | 21.0  | 24.0                 | 26.0  | 25.0                | 25.0  | 23.0              | 25.0  | 84.0                  | -      | -                         | -     | 1.0                     | 0.9   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 23.0                  | 23.0  |
| 19           | 20.0                 | 20.0  | 25.0                 | 25.0  | 24.0                | 27.0  | 23.0              | 26.0  | 91.0                  | 92.0   | 2.0                       | 2.0   | 0.8                     | 1.2   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 22.0                  | 24.0  |
| 20           | 20.0                 | 20.5  | 24.0                 | 25.0  | 24.5                | 25.0  | 23.5              | 25.0  | 92.0                  | -      | -                         | -     | 0.6                     | 2.8   | SW                      | NE    | -             | -     | 0.5                  | 1.0   | 22.0                  | 23.0  |
| 21           | 20.0                 | 20.0  | 23.5                 | 25.0  | 24.0                | 25.0  | 22.0              | 25.0  | 83.0                  | -      | -                         | 2.0   | 1.3                     | 0.9   | SW                      | SW    | 13.8          | -     | 0.5                  | 0.5   | 22.0                  | 23.0  |
| 22           | 19.5                 | 19.5  | 23.0                 | 23.5  | 23.0                | 24.5  | 21.5              | 24.5  | 87.0                  | -      | -                         | -     | 1.0                     | 0.4   | SW                      | SW    | -             | -     | 0.5                  | 0.5   | 21.5                  | 23.0  |
| 23           | 18.5                 | 19.5  | 23.0                 | 23.0  | 22.5                | 24.5  | 21.0              | 24.0  | 87.0                  | 96.0   | -                         | -     | 1.4                     | 2.0   | SW                      | SW    | -             | -     | 0.5                  | 0.5   | 21.0                  | 22.5  |
| 24           | 16.0                 | 17.5  | 19.0                 | 23.0  | 22.0                | 25.0  | 20.0              | 23.0  | 82.0                  | 84.0   | -                         | -     | 1.1                     | 2.7   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 20.0                  | 22.0  |
| 25           | 16.0                 | 16.0  | 20.0                 | 22.0  | 20.0                | 25.0  | 18.0              | 22.0  | 81.0                  | 76.0   | -                         | -     | 0.6                     | 2.9   | SW                      | SW    | -             | -     | 0.5                  | 0.5   | 19.0                  | 22.0  |
| 26           | 15.0                 | 15.0  | 20.0                 | 22.0  | 20.0                | 24.0  | 18.0              | 21.0  | 81.0                  | 75.0   | -                         | -     | 0.3                     | 1.4   | SW                      | NE    | -             | -     | 0.5                  | 0.5   | 17.5                  | 20.0  |
| 27           | 15.0                 | 15.0  | 22.0                 | 22.0  | 20.0                | 24.0  | 17.0              | 21.0  | 73.0                  | 75.0   | 2.0                       | -     | 0.4                     | 0.7   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 18.0                  | 20.0  |
| 28           | 15.0                 | 16.0  | 20.0                 | 21.0  | 20.0                | 23.0  | 18.0              | 20.0  | 81.0                  | 75.0   | -                         | -     | 0.4                     | 1.4   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 18.0                  | 20.0  |
| 29           | 15.0                 | 15.0  | 21.0                 | 21.0  | 20.0                | 23.0  | 18.0              | 21.0  | 81.0                  | 83.0   | -                         | -     | 0.8                     | 0.8   | SW                      | SW    | -             | -     | 0.5                  | 1.0   | 18.0                  | 19.0  |
| 30           | 15.0                 |       | 20.0                 |       | 20.0                |       | 18.0              |       | 81.0                  |        | -                         |       | 0.4                     |       | SW                      |       | -             |       | 0.5                  |       | 18.0                  |       |
| Total        | 551.5                | 570.5 | 690.5                | 725.5 | 690.0               | 784.0 | 626.5             | 719.5 | 2461.0                | 2097.0 | 26.0                      | 14.0  | 28.0                    | 69.9  |                         |       | 15.2          | 31.2  | 17.9                 | 25.8  | 591.5                 | 717.0 |
| Average      | 18.4                 | 19.0  | 23.0                 | 24.2  | 23.0                | 26.1  | 20.9              | 24.0  | 82.0                  | 69.9   | 0.9                       | 0.5   | 0.9                     | 2.3   |                         |       |               |       |                      |       | 19.7                  | 23.9  |
|              | 18.7                 |       | 23.6                 |       | 24.6                |       | 22.4              |       | 76.0                  |        | 0.7                       |       | 1.6                     |       |                         |       | 46.4          |       | 43.7                 |       | 21.8                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| November 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 15.0  |                      | 21.0  |                     | 24.0  |                   | 20.5  |                       | 71.0   |                           | -     |                         | 0.7   |                         | SW    |               | -     |                      | 0.5   |                       | 19.0  |
| 1             | 15.0                 | 16.0  | 20.0                 | 21.0  | 18.0                | 22.0  | 18.0              | 19.0  | -                     | 74.0   | 2.0                       | -     | 1.6                     | 2.2   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 14.0                  | 17.0  |
| 2             | 15.0                 | 17.0  | 21.0                 | 22.0  | 18.0                | 22.0  | 17.0              | 20.0  | 90.0                  | 82.0   | 2.0                       | -     | 1.0                     | 1.5   | NE                      | NE    | -             | -     | -                    | 0.5   | 13.0                  | 20.0  |
| 3             | 13.0                 | 17.0  | 20.0                 | 22.0  | 18.0                | 21.0  | 16.0              | 19.0  | 80.0                  | 82.0   | 2.0                       | 2.0   | 0.8                     | 1.6   | NE                      | NE    | -             | -     | -                    | 0.5   | 13.0                  | 19.0  |
| 4             | 12.0                 | 16.0  | 20.0                 | 21.0  | 18.0                | 21.0  | 16.0              | 21.0  | 80.0                  | -      | -                         | 2.0   | 0.3                     | 0.7   | NE                      | NE    | -             | -     | -                    | 0.5   | 13.0                  | 18.0  |
| 5             | 13.0                 | 14.0  | 19.0                 | 20.0  | 18.0                | 22.0  | 17.0              | 22.0  | 90.0                  | -      | -                         | -     | 0.8                     | 2.7   | SW                      | SW    | -             | -     | 0.5                  | -     | 13.0                  | 18.0  |
| 6             | 14.0                 | 15.0  | 20.0                 | 23.0  | 19.0                | 24.0  | 18.0              | 21.5  | 90.0                  | 79.0   | -                         | -     | 0.5                     | 1.7   | SW                      | NE    | -             | -     | 0.5                  | -     | 14.0                  | 15.0  |
| 7             | 13.5                 | 14.0  | 20.0                 | 24.5  | 20.0                | 23.5  | 19.0              | 20.0  | 91.0                  | 71.0   | 2.0                       | -     | 0.7                     | 3.2   | NE                      | SE    | -             | -     | 0.5                  | 0.3   | 16.0                  | 20.0  |
| 8             | 14.0                 | 14.0  | 21.0                 | 24.0  | 18.0                | 21.0  | 18.0              | 20.0  | -                     | 91.0   | 2.0                       | -     | 0.9                     | 2.2   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 21.0  |
| 9             | 15.0                 | 16.0  | 22.0                 | 24.0  | 18.0                | 22.0  | 18.0              | 20.0  | -                     | 82.0   | -                         | -     | 2.7                     | 5.1   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 17.0                  | 21.0  |
| 10            | 15.0                 | 15.0  | 21.0                 | 23.0  | 20.0                | 24.0  | 19.0              | 21.0  | 91.0                  | 75.0   | -                         | -     | 0.2                     | 3.0   | NE                      | SE    | -             | -     | 0.5                  | 0.5   | 16.0                  | 18.0  |
| 11            | 10.0                 | 10.5  | 23.0                 | 24.0  | 18.0                | 23.0  | 17.0              | 21.0  | 90.0                  | 83.0   | -                         | -     | 0.1                     | 1.4   | SE                      | NE    | -             | -     | 0.5                  | -     | 14.0                  | 16.0  |
| 12            | 10.5                 | 10.5  | 20.0                 | 20.0  | 19.0                | 23.0  | 18.0              | 20.0  | 90.0                  | 75.0   | -                         | -     | -                       | 1.0   | SE                      | SE    | -             | -     | 0.5                  | -     | 16.5                  | 17.0  |
| 13            | 10.0                 | 14.0  | 20.0                 | 21.5  | 19.0                | 23.0  | 18.0              | 21.0  | 90.0                  | 83.0   | -                         | -     | 0.1                     | 0.8   | SW                      | SE    | -             | -     | 0.5                  | -     | 17.0                  | 17.0  |
| 14            | 10.0                 | 14.0  | 21.0                 | 24.0  | 20.0                | 25.0  | 19.0              | 23.0  | 91.0                  | 84.0   | -                         | -     | 0.4                     | 1.4   | NE                      | SE    | -             | -     | 0.5                  | 0.2   | 17.5                  | 22.0  |
| 15            | 13.0                 | 14.0  | 24.0                 | 25.0  | 20.0                | 27.0  | 18.5              | 22.0  | 86.0                  | 63.0   | -                         | -     | 0.1                     | 1.3   | NE                      | SE    | -             | -     | -                    | 0.5   | 17.5                  | 22.0  |
| 16            | 11.0                 | 15.0  | 24.0                 | 24.5  | 20.0                | 26.0  | 19.0              | 21.5  | 91.0                  | 59.0   | -                         | -     | 0.2                     | 1.9   | NE                      | SW    | -             | -     | 0.5                  | 0.5   | 16.5                  | 23.0  |
| 17            | 11.0                 | 12.0  | 23.0                 | 24.0  | 21.0                | 24.5  | 19.0              | 21.0  | 82.0                  | 72.0   | -                         | -     | 0.3                     | 2.7   | NE                      | SE    | -             | -     | 0.5                  | 0.5   | 17.0                  | 23.0  |
| 18            | 12.0                 | 12.0  | 21.0                 | 24.0  | 19.0                | 24.5  | 16.0              | 18.0  | 72.0                  | 51.0   | -                         | -     | 0.4                     | 3.8   | NE                      | SE    | -             | -     | 0.5                  | -     | 16.0                  | 23.0  |
| 19            | 10.0                 | 11.0  | 17.0                 | 18.0  | 16.5                | 22.5  | 14.0              | 20.0  | 75.0                  | 79.0   | -                         | -     | -                       | 1.8   | SE                      | NE    | -             | -     | 0.2                  | 0.3   | 13.0                  | 20.0  |
| 20            | 10.0                 | 11.0  | 11.0                 | 20.0  | 19.0                | 24.0  | 16.5              | 20.0  | 67.0                  | 68.0   | 2.0                       | -     | 0.2                     | 3.2   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 13.5                  | 21.0  |
| 21            | 9.5                  | 9.5   | 17.0                 | 20.0  | 20.0                | 24.0  | 17.0              | 20.5  | 73.0                  | 71.0   | 2.0                       | -     | 0.1                     | 2.5   | NE                      | SE    | -             | -     | -                    | 0.6   | 24.5                  | 22.0  |
| 22            | 9.5                  | 9.5   | 17.0                 | 18.0  | 19.5                | 24.0  | 18.0              | 19.0  | 86.0                  | 60.0   | 2.0                       | -     | 0.2                     | 2.6   | NE                      | SE    | -             | -     | -                    | 0.5   | 15.0                  | 21.5  |
| 23            | 10.0                 | 11.0  | 17.0                 | 20.0  | 18.5                | 23.5  | 16.0              | 19.5  | 76.0                  | 90.0   | -                         | -     | -                       | 2.9   | NE                      | SE    | -             | -     | -                    | 0.5   | 14.5                  | 21.5  |
| 24            | 9.5                  | 13.0  | 17.0                 | 20.0  | 19.5                | 24.0  | 16.5              | 21.0  | 73.0                  | 75.0   | 2.0                       | -     | 0.5                     | 2.3   | NE                      | NE    | -             | -     | -                    | 0.5   | 15.0                  | 21.5  |
| 25            | 9.0                  | 12.5  | 17.0                 | 24.0  | 18.0                | 26.0  | 16.0              | 18.5  | 80.0                  | 39.0   | -                         | -     | 0.2                     | 2.0   | NE                      | SE    | -             | -     | -                    | 0.5   | 14.0                  | 22.0  |
| 26            | 8.5                  | 12.5  | 16.0                 | 24.0  | 17.5                | 23.0  | 15.0              | 19.5  | 76.0                  | 63.0   | -                         | -     | 0.5                     | 2.9   | NE                      | SE    | -             | -     | -                    | 0.3   | 13.5                  | 22.0  |
| 27            | 8.5                  | 10.0  | 15.0                 | 23.0  | 16.0                | 22.5  | 14.5              | 19.5  | 84.0                  | 75.0   | -                         | -     | 0.3                     | 2.2   | SE                      | SE    | -             | -     | -                    | 0.5   | 12.5                  | 21.0  |
| 28            | 8.5                  | 11.0  | 15.0                 | 22.5  | 16.0                | 22.5  | 14.5              | 19.0  | 74.0                  | 71.0   | 2.0                       | -     | -                       | 2.8   | NE                      | SE    | -             | -     | -                    | 0.5   | 12.0                  | 21.0  |
| 29            | 8.5                  | 11.0  | 18.0                 | 22.5  | 18.0                | 23.0  | 15.0              | 19.0  | 71.0                  | 67.0   | -                         | -     | 0.4                     | 2.9   | NE                      | SE    | -             | -     | -                    | 0.5   | 12.0                  | 20.5  |
| 30            | 8.5                  | 11.5  | 18.0                 | 23.0  | 18.0                | 23.0  | 15.0              | 19.0  | 71.0                  | 67.0   | 2.0                       | -     | 0.1                     | 2.7   | NE                      | SE    | -             | -     | -                    | 0.5   | 12.0                  | 21.5  |
| 31            | 8.5                  |       | 19.0                 |       | 17.5                |       | 14.0              |       | 66.0                  |        | 2.0                       |       | 0.4                     |       | NE                      |       | -             |       | -                    |       | 12.0                  |       |
| Total         | 345.5                | 404.5 | 594.0                | 687.5 | 575.0               | 724.5 | 522.5             | 626.0 | 2276.0                | 2102.0 | 24.0                      | 4.0   | 14.0                    | 69.7  |                         |       | -             | -     | 7.7                  | 12.2  | 461.5                 | 624.5 |
| Average       | 11.1                 | 13.0  | 19.2                 | 22.2  | 18.5                | 23.4  | 16.9              | 20.2  | 73.4                  | 67.8   | 0.8                       | 0.1   | 0.5                     | 2.2   |                         |       |               |       |                      |       | 14.9                  | 20.1  |
|               | 12.1                 |       | 20.7                 |       | 21.0                |       | 18.5              |       | 70.6                  |        | 0.5                       |       | 1.4                     |       |                         |       | 0.0           |       | 19.9                 |       | 17.5                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| December 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 15.0  |                      | 21.0  |                     | 24.0  |                   | 20.5  |                       | 71.0   |                           | -     |                         | 0.7   |                         | SW    |               | -     |                      | 0.5   |                       | 19.0  |
| 1             | 15.0                 | 16.0  | 20.0                 | 21.0  | 18.0                | 22.0  | 18.0              | 19.0  | -                     | 74.0   | 2.0                       | -     | 1.6                     | 2.2   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 14.0                  | 17.0  |
| 2             | 15.0                 | 17.0  | 21.0                 | 22.0  | 18.0                | 22.0  | 17.0              | 20.0  | 90.0                  | 82.0   | 2.0                       | -     | 1.0                     | 1.5   | NE                      | NE    | -             | -     | -                    | 0.5   | 13.0                  | 20.0  |
| 3             | 13.0                 | 17.0  | 20.0                 | 22.0  | 18.0                | 21.0  | 16.0              | 19.0  | 80.0                  | 82.0   | 2.0                       | 2.0   | 0.8                     | 1.6   | NE                      | NE    | -             | -     | -                    | 0.5   | 13.0                  | 19.0  |
| 4             | 12.0                 | 16.0  | 20.0                 | 21.0  | 18.0                | 21.0  | 16.0              | 21.0  | 80.0                  | -      | -                         | 2.0   | 0.3                     | 0.7   | NE                      | NE    | -             | -     | -                    | 0.5   | 13.0                  | 18.0  |
| 5             | 13.0                 | 14.0  | 19.0                 | 20.0  | 18.0                | 22.0  | 17.0              | 22.0  | 90.0                  | -      | -                         | -     | 0.8                     | 2.7   | SW                      | SW    | -             | -     | 0.5                  | -     | 13.0                  | 18.0  |
| 6             | 14.0                 | 15.0  | 20.0                 | 23.0  | 19.0                | 24.0  | 18.0              | 21.5  | 90.0                  | 79.0   | -                         | -     | 0.5                     | 1.7   | SW                      | NE    | -             | -     | 0.5                  | -     | 14.0                  | 15.0  |
| 7             | 13.5                 | 14.0  | 20.0                 | 24.5  | 20.0                | 23.5  | 19.0              | 20.0  | 91.0                  | 71.0   | 2.0                       | -     | 0.7                     | 3.2   | NE                      | SE    | -             | -     | 0.5                  | 0.3   | 16.0                  | 20.0  |
| 8             | 14.0                 | 14.0  | 21.0                 | 24.0  | 18.0                | 21.0  | 18.0              | 20.0  | -                     | 91.0   | 2.0                       | -     | 0.9                     | 2.2   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 21.0  |
| 9             | 15.0                 | 16.0  | 22.0                 | 24.0  | 18.0                | 22.0  | 18.0              | 20.0  | -                     | 82.0   | -                         | -     | 2.7                     | 5.1   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 17.0                  | 21.0  |
| 10            | 15.0                 | 15.0  | 21.0                 | 23.0  | 20.0                | 24.0  | 19.0              | 21.0  | 91.0                  | 75.0   | -                         | -     | 0.2                     | 3.0   | NE                      | SE    | -             | -     | 0.5                  | 0.5   | 16.0                  | 18.0  |
| 11            | 10.0                 | 10.5  | 23.0                 | 24.0  | 18.0                | 23.0  | 17.0              | 21.0  | 90.0                  | 83.0   | -                         | -     | 0.1                     | 1.4   | SE                      | NE    | -             | -     | 0.5                  | -     | 14.0                  | 16.0  |
| 12            | 10.5                 | 10.5  | 20.0                 | 20.0  | 19.0                | 23.0  | 18.0              | 20.0  | 90.0                  | 75.0   | -                         | -     | -                       | 1.0   | SE                      | SE    | -             | -     | 0.5                  | -     | 16.5                  | 17.0  |
| 13            | 10.0                 | 14.0  | 20.0                 | 21.5  | 19.0                | 23.0  | 18.0              | 21.0  | 90.0                  | 83.0   | -                         | -     | 0.1                     | 0.8   | SW                      | SE    | -             | -     | 0.5                  | -     | 17.0                  | 17.0  |
| 14            | 10.0                 | 14.0  | 21.0                 | 24.0  | 20.0                | 25.0  | 19.0              | 23.0  | 91.0                  | 84.0   | -                         | -     | 0.4                     | 1.4   | NE                      | SE    | -             | -     | 0.5                  | 0.2   | 17.5                  | 22.0  |
| 15            | 13.0                 | 14.0  | 24.0                 | 25.0  | 20.0                | 27.0  | 18.5              | 22.0  | 86.0                  | 63.0   | -                         | -     | 0.1                     | 1.3   | NE                      | SE    | -             | -     | -                    | 0.5   | 17.5                  | 22.0  |
| 16            | 11.0                 | 15.0  | 24.0                 | 24.5  | 20.0                | 26.0  | 19.0              | 21.5  | 91.0                  | 59.0   | -                         | -     | 0.2                     | 1.9   | NE                      | SW    | -             | -     | 0.5                  | 0.5   | 16.5                  | 23.0  |
| 17            | 11.0                 | 12.0  | 23.0                 | 24.0  | 21.0                | 24.5  | 19.0              | 21.0  | 82.0                  | 72.0   | -                         | -     | 0.3                     | 2.7   | NE                      | SE    | -             | -     | 0.5                  | 0.5   | 17.0                  | 23.0  |
| 18            | 12.0                 | 12.0  | 21.0                 | 24.0  | 19.0                | 24.5  | 16.0              | 18.0  | 72.0                  | 51.0   | -                         | -     | 0.4                     | 3.8   | NE                      | SE    | -             | -     | 0.5                  | -     | 16.0                  | 23.0  |
| 19            | 10.0                 | 11.0  | 17.0                 | 18.0  | 16.5                | 22.5  | 14.0              | 20.0  | 75.0                  | 79.0   | -                         | -     | -                       | 1.8   | SE                      | NE    | -             | -     | 0.2                  | 0.3   | 13.0                  | 20.0  |
| 20            | 10.0                 | 11.0  | 11.0                 | 20.0  | 19.0                | 24.0  | 16.5              | 20.0  | 67.0                  | 68.0   | 2.0                       | -     | 0.2                     | 3.2   | NE                      | NE    | -             | -     | 0.5                  | 0.5   | 13.5                  | 21.0  |
| 21            | 9.5                  | 9.5   | 17.0                 | 20.0  | 20.0                | 24.0  | 17.0              | 20.5  | 73.0                  | 71.0   | 2.0                       | -     | 0.1                     | 2.5   | NE                      | SE    | -             | -     | -                    | 0.6   | 24.5                  | 22.0  |
| 22            | 9.5                  | 9.5   | 17.0                 | 18.0  | 19.5                | 24.0  | 18.0              | 19.0  | 86.0                  | 60.0   | 2.0                       | -     | 0.2                     | 2.6   | NE                      | SE    | -             | -     | -                    | 0.5   | 15.0                  | 21.5  |
| 23            | 10.0                 | 11.0  | 17.0                 | 20.0  | 18.5                | 23.5  | 16.0              | 19.5  | 76.0                  | 90.0   | -                         | -     | -                       | 2.9   | NE                      | SE    | -             | -     | -                    | 0.5   | 14.5                  | 21.5  |
| 24            | 9.5                  | 13.0  | 17.0                 | 20.0  | 19.5                | 24.0  | 16.5              | 21.0  | 73.0                  | 75.0   | 2.0                       | -     | 0.5                     | 2.3   | NE                      | NE    | -             | -     | -                    | 0.5   | 15.0                  | 21.5  |
| 25            | 9.0                  | 12.5  | 17.0                 | 24.0  | 18.0                | 26.0  | 16.0              | 18.5  | 80.0                  | 39.0   | -                         | -     | 0.2                     | 2.0   | NE                      | SE    | -             | -     | -                    | 0.5   | 14.0                  | 22.0  |
| 26            | 8.5                  | 12.5  | 16.0                 | 24.0  | 17.5                | 23.0  | 15.0              | 19.5  | 76.0                  | 63.0   | -                         | -     | 0.5                     | 2.9   | NE                      | SE    | -             | -     | -                    | 0.3   | 13.5                  | 22.0  |
| 27            | 8.5                  | 10.0  | 15.0                 | 23.0  | 16.0                | 22.5  | 14.5              | 19.5  | 84.0                  | 75.0   | -                         | -     | 0.3                     | 2.2   | SE                      | SE    | -             | -     | -                    | 0.5   | 12.5                  | 21.0  |
| 28            | 8.5                  | 11.0  | 15.0                 | 22.5  | 16.0                | 22.5  | 14.5              | 19.0  | 74.0                  | 71.0   | 2.0                       | -     | -                       | 2.8   | NE                      | SE    | -             | -     | -                    | 0.5   | 12.0                  | 21.0  |
| 29            | 8.5                  | 11.0  | 18.0                 | 22.5  | 18.0                | 23.0  | 15.0              | 19.0  | 71.0                  | 67.0   | -                         | -     | 0.4                     | 2.9   | NE                      | SE    | -             | -     | -                    | 0.5   | 12.0                  | 20.5  |
| 30            | 8.5                  | 11.5  | 18.0                 | 23.0  | 18.0                | 23.0  | 15.0              | 19.0  | 71.0                  | 67.0   | 2.0                       | -     | 0.1                     | 2.7   | NE                      | SE    | -             | -     | -                    | 0.5   | 12.0                  | 21.5  |
| 31            | 8.5                  |       | 19.0                 |       | 17.5                |       | 14.0              |       | 66.0                  |        | 2.0                       |       | 0.4                     |       | NE                      |       | -             |       | -                    |       | 12.0                  |       |
| Total         | 345.5                | 404.5 | 594.0                | 687.5 | 575.0               | 724.5 | 522.5             | 626.0 | 2276.0                | 2102.0 | 24.0                      | 4.0   | 14.0                    | 69.7  |                         |       | -             | -     | 7.7                  | 12.2  | 461.5                 | 624.5 |
| Average       | 11.1                 | 13.0  | 19.2                 | 22.2  | 18.5                | 23.4  | 16.9              | 20.2  | 73.4                  | 67.8   | 0.8                       | 0.1   | 0.5                     | 2.2   |                         |       |               |       |                      |       | 14.9                  | 20.1  |
|               | 12.1                 |       | 20.7                 |       | 21.0                |       | 18.5              |       | 70.6                  |        | 0.5                       |       | 1.4                     |       |                         |       | 0.0           |       | 19.9                 |       | 17.5                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| January 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM        |                      | 11.0  |                      | 19.0  |                     | 25.5  |                   | 23.0  |                       | 80.0   |                           | -     |                         | 1.4   |                         | SW    |               | -     |                      | 1.0   |                       | 22.5  |
| 1            | 9.0                  | 15.0  | 15.0                 | 23.0  | 21.0                | 27.0  | 18.5              | 23.5  | 78.0                  | 73.0   | -                         | -     | 1.5                     | 3.6   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.5  |
| 2            | 9.0                  | 15.5  | 14.0                 | 23.5  | 20.0                | 27.0  | 17.0              | 23.0  | 73.0                  | 70.0   | 2.0                       | -     | 0.3                     | 2.3   | SW                      | SW    | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.5  |
| 3            | 12.0                 | 18.0  | 16.0                 | 26.0  | 20.0                | 28.0  | 17.0              | 20.0  | 73.0                  | 55.0   | 2.0                       | -     | 0.3                     | 2.3   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 16.0                  | 24.0  |
| 4            | 17.5                 | 20.0  | 22.0                 | 28.0  | 21.0                | 29.0  | 17.0              | 20.5  | 65.0                  | 43.0   | 2.0                       | -     | 0.5                     | 3.1   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 16.0                  | 25.5  |
| 5            | 16.0                 | 20.5  | 25.0                 | 30.0  | 22.0                | 28.0  | 18.0              | 20.5  | 66.0                  | 48.0   | 2.0                       | -     | 0.5                     | 2.0   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 17.5                  | 25.5  |
| 6            | 18.0                 | 22.0  | 27.0                 | 32.0  | 24.0                | 30.0  | 19.0              | 21.0  | 60.0                  | 42.0   | 2.0                       | -     | 0.7                     | 2.4   | SW                      | SE    | -             | -     | 0.5                  | 1.0   | 18.0                  | 26.0  |
| 7            | 19.0                 | 19.0  | 26.0                 | 32.0  | 20.5                | 23.5  | 18.0              | 20.0  | 77.0                  | 71.0   | -                         | -     | 0.4                     | 1.3   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 19.0                  | 20.0  |
| 8            | 17.0                 | 20.0  | 24.0                 | 30.0  | 21.0                | 28.0  | 19.0              | 20.0  | 82.0                  | 45.0   | -                         | -     | 0.5                     | 2.9   | SE                      | SW    | -             | -     | 0.5                  | 2.0   | 17.5                  | 25.5  |
| 9            | 17.0                 | 22.0  | 25.0                 | 33.0  | 23.0                | 29.5  | 19.5              | 20.5  | 71.0                  | 40.0   | 2.0                       | 2.0   | 0.7                     | 4.1   | SE                      | SW    | -             | -     | 0.5                  | 2.0   | 18.0                  | 26.0  |
| 10           | 18.0                 | 22.0  | 30.0                 | 31.0  | 23.5                | 26.5  | 17.0              | 17.5  | 48.0                  | 36.0   | 2.0                       | 2.0   | 1.3                     | 5.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 18.0                  | 22.5  |
| 11           | 16.5                 | 20.0  | 27.5                 | 32.0  | 20.0                | 20.5  | 15.0              | 18.0  | 52.0                  | 81.0   | 2.0                       | 2.0   | 1.7                     | 4.2   | NE                      | NE    | -             | 1.2   | 0.5                  | 0.5   | 15.5                  | 22.5  |
| 12           | 16.0                 | 21.0  | 28.0                 | 28.0  | 20.0                | 22.5  | 15.0              | 19.0  | 56.0                  | 70.0   | 2.0                       | 2.0   | 2.5                     | 6.0   | NE                      | NE    | 0.4           | -     | 0.5                  | 1.0   | 15.0                  | 22.0  |
| 13           | 17.0                 | 20.0  | 27.0                 | 28.0  | 18.5                | 22.0  | 15.0              | 19.0  | 66.0                  | 74.0   | 2.0                       | 8.0   | 2.2                     | 3.5   | NE                      | NE    | 10.4          | -     | 0.5                  | 1.0   | 17.0                  | 24.5  |
| 14           | 17.0                 | 18.5  | 27.0                 | 27.5  | 18.0                | 23.0  | 15.0              | 20.0  | 71.0                  | 75.0   | 2.0                       | -     | 4.0                     | 3.3   | NE                      | SW    | 12.8          | -     | 0.5                  | 1.0   | 16.0                  | 26.5  |
| 15           | 14.0                 | 15.0  | 20.5                 | 22.5  | 17.0                | 22.5  | 15.0              | 17.0  | 80.0                  | 54.0   | -                         | -     | 0.4                     | 2.3   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 16.0                  | 26.0  |
| 16           | 14.0                 | 19.0  | 28.0                 | 29.0  | 19.0                | 24.0  | 17.0              | 19.0  | 81.0                  | 60.0   | -                         | -     | 0.1                     | 2.6   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 16.0                  | 25.0  |
| 17           | 16.0                 | 19.5  | 26.0                 | 29.0  | 19.0                | 24.0  | 16.0              | 19.5  | 72.0                  | 64.0   | -                         | -     | 0.2                     | 2.3   | SW                      | SE    | -             | -     | 0.5                  | 2.0   | 17.0                  | 25.0  |
| 18           | 16.0                 | 21.0  | 29.0                 | 31.5  | 20.0                | 22.0  | 18.5              | 19.0  | 86.0                  | 44.0   | 2.0                       | -     | 0.2                     | 1.9   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.0                  | 26.0  |
| 19           | 16.0                 | 20.0  | 32.0                 | 33.0  | 20.0                | 27.0  | 18.0              | 21.0  | 81.0                  | 56.0   | -                         | -     | 0.4                     | 2.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.5                  | 26.0  |
| 20           | 18.0                 | 21.0  | 29.0                 | 33.0  | 21.0                | 27.0  | 19.0              | 20.5  | 82.0                  | 53.0   | 2.0                       | -     | 0.8                     | 3.2   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 18.0                  | 26.5  |
| 21           | 16.0                 | 25.0  | 31.0                 | 33.5  | 23.0                | 28.5  | 19.0              | 19.0  | 67.0                  | 36.0   | -                         | -     | 0.4                     | 2.8   | SW                      | SW    | -             | -     | 0.5                  | 2.0   | 18.0                  | 27.5  |
| 22           | 16.0                 | 24.0  | 32.0                 | 34.0  | 20.0                | 20.0  | 18.0              | 19.5  | 81.0                  | 95.0   | -                         | -     | 0.3                     | 1.7   | SE                      | SW    | -             | -     | 0.5                  | 2.0   | 16.0                  | 27.0  |
| 23           | 16.5                 | 24.0  | 33.5                 | 35.0  | 22.0                | 29.0  | 19.0              | 21.0  | 74.0                  | 46.0   | -                         | -     | 0.2                     | 2.6   | NE                      | SW    | -             | -     | 0.5                  | 2.0   | 16.0                  | 27.0  |
| 24           | 19.0                 | 25.0  | 35.0                 | 36.0  | 24.0                | 30.0  | 20.0              | 22.0  | 68.0                  | 42.0   | 2.0                       | -     | 0.7                     | 3.0   | SW                      | SW    | -             | -     | 0.5                  | 2.0   | 18.5                  | 27.5  |
| 25           | 16.5                 | 24.0  | 34.0                 | 36.0  | 24.0                | 29.0  | 20.0              | 23.0  | 63.0                  | 58.0   | -                         | -     | 0.7                     | 2.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 19.5                  | 28.0  |
| 26           | 19.0                 | 25.0  | 32.0                 | 36.0  | 25.0                | 31.0  | 21.0              | 23.0  | 68.0                  | 47.0   | -                         | 2.0   | 0.7                     | 2.1   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 30.0  |
| 27           | 18.0                 | 26.0  | 32.0                 | 35.0  | 24.0                | 30.0  | 18.0              | 21.0  | 53.0                  | 42.0   | 2.0                       | -     | 0.7                     | 3.2   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 21.5  |
| 28           | 18.0                 |       | 33.0                 |       | 25.0                |       | 19.0              |       | 54.0                  |        | 2.0                       |       | 0.6                     |       | NE                      |       | -             |       | 1.0                  |       | 19.0                  |       |
| Total        | 452.0                | 573.0 | 760.5                | 846.5 | 595.5               | 734.0 | 497.5             | 570.0 | 1948.0                | 1600.0 | 32.0                      | 18.0  | 23.5                    | 80.0  |                         |       | 23.6          | 1.2   | 18.0                 | 41.5  | 482.0                 | 703.0 |
| Average      | 16.1                 | 20.5  | 27.2                 | 30.2  | 21.3                | 26.2  | 17.8              | 20.4  | 69.6                  | 57.1   | 1.1                       | 0.6   | 0.8                     | 2.9   |                         |       |               |       |                      |       | 17.2                  | 25.1  |
|              | 18.3                 |       | 28.7                 |       | 23.7                |       | 19.1              |       | 63.4                  |        | 0.9                       |       | 1.8                     |       |                         |       | 24.8          |       | 59.5                 |       | 21.2                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| February 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 11.0  |                      | 19.0  |                     | 25.5  |                   | 23.0  |                       | 80.0   |                           | -     |                         | 1.4   |                         | SW    |               | -     |                      | 1.0   |                       | 22.5  |
| 1             | 9.0                  | 15.0  | 15.0                 | 23.0  | 21.0                | 27.0  | 18.5              | 23.5  | 78.0                  | 73.0   | -                         | -     | 1.5                     | 3.6   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.5  |
| 2             | 9.0                  | 15.5  | 14.0                 | 23.5  | 20.0                | 27.0  | 17.0              | 23.0  | 73.0                  | 70.0   | 2.0                       | -     | 0.3                     | 2.3   | SW                      | SW    | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.5  |
| 3             | 12.0                 | 18.0  | 16.0                 | 26.0  | 20.0                | 28.0  | 17.0              | 20.0  | 73.0                  | 55.0   | 2.0                       | -     | 0.3                     | 2.3   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 16.0                  | 24.0  |
| 4             | 17.5                 | 20.0  | 22.0                 | 28.0  | 21.0                | 29.0  | 17.0              | 20.5  | 65.0                  | 43.0   | 2.0                       | -     | 0.5                     | 3.1   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 16.0                  | 25.5  |
| 5             | 16.0                 | 20.5  | 25.0                 | 30.0  | 22.0                | 28.0  | 18.0              | 20.5  | 66.0                  | 48.0   | 2.0                       | -     | 0.5                     | 2.0   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 17.5                  | 25.5  |
| 6             | 18.0                 | 22.0  | 27.0                 | 32.0  | 24.0                | 30.0  | 19.0              | 21.0  | 60.0                  | 42.0   | 2.0                       | -     | 0.7                     | 2.4   | SW                      | SE    | -             | -     | 0.5                  | 1.0   | 18.0                  | 26.0  |
| 7             | 19.0                 | 19.0  | 26.0                 | 32.0  | 20.5                | 23.5  | 18.0              | 20.0  | 77.0                  | 71.0   | -                         | -     | 0.4                     | 1.3   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 19.0                  | 20.0  |
| 8             | 17.0                 | 20.0  | 24.0                 | 30.0  | 21.0                | 28.0  | 19.0              | 20.0  | 82.0                  | 45.0   | -                         | -     | 0.5                     | 2.9   | SE                      | SW    | -             | -     | 0.5                  | 2.0   | 17.5                  | 25.5  |
| 9             | 17.0                 | 22.0  | 25.0                 | 33.0  | 23.0                | 29.5  | 19.5              | 20.5  | 71.0                  | 40.0   | 2.0                       | 2.0   | 0.7                     | 4.1   | SE                      | SW    | -             | -     | 0.5                  | 2.0   | 18.0                  | 26.0  |
| 10            | 18.0                 | 22.0  | 30.0                 | 31.0  | 23.5                | 26.5  | 17.0              | 17.5  | 48.0                  | 36.0   | 2.0                       | 2.0   | 1.3                     | 5.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 18.0                  | 22.5  |
| 11            | 16.5                 | 20.0  | 27.5                 | 32.0  | 20.0                | 20.5  | 15.0              | 18.0  | 52.0                  | 81.0   | 2.0                       | 2.0   | 1.7                     | 4.2   | NE                      | NE    | -             | 1.2   | 0.5                  | 0.5   | 15.5                  | 22.5  |
| 12            | 16.0                 | 21.0  | 28.0                 | 28.0  | 20.0                | 22.5  | 15.0              | 19.0  | 56.0                  | 70.0   | 2.0                       | 2.0   | 2.5                     | 6.0   | NE                      | NE    | 0.4           | -     | 0.5                  | 1.0   | 15.0                  | 22.0  |
| 13            | 17.0                 | 20.0  | 27.0                 | 28.0  | 18.5                | 22.0  | 15.0              | 19.0  | 66.0                  | 74.0   | 2.0                       | 8.0   | 2.2                     | 3.5   | NE                      | NE    | 10.4          | -     | 0.5                  | 1.0   | 17.0                  | 24.5  |
| 14            | 17.0                 | 18.5  | 27.0                 | 27.5  | 18.0                | 23.0  | 15.0              | 20.0  | 71.0                  | 75.0   | 2.0                       | -     | 4.0                     | 3.3   | NE                      | SW    | 12.8          | -     | 0.5                  | 1.0   | 16.0                  | 26.5  |
| 15            | 14.0                 | 15.0  | 20.5                 | 22.5  | 17.0                | 22.5  | 15.0              | 17.0  | 80.0                  | 54.0   | -                         | -     | 0.4                     | 2.3   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 16.0                  | 26.0  |
| 16            | 14.0                 | 19.0  | 28.0                 | 29.0  | 19.0                | 24.0  | 17.0              | 19.0  | 81.0                  | 60.0   | -                         | -     | 0.1                     | 2.6   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 16.0                  | 25.0  |
| 17            | 16.0                 | 19.5  | 26.0                 | 29.0  | 19.0                | 24.0  | 16.0              | 19.5  | 72.0                  | 64.0   | -                         | -     | 0.2                     | 2.3   | SW                      | SE    | -             | -     | 0.5                  | 2.0   | 17.0                  | 25.0  |
| 18            | 16.0                 | 21.0  | 29.0                 | 31.5  | 20.0                | 22.0  | 18.5              | 19.0  | 86.0                  | 44.0   | 2.0                       | -     | 0.2                     | 1.9   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.0                  | 26.0  |
| 19            | 16.0                 | 20.0  | 32.0                 | 33.0  | 20.0                | 27.0  | 18.0              | 21.0  | 81.0                  | 56.0   | -                         | -     | 0.4                     | 2.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.5                  | 26.0  |
| 20            | 18.0                 | 21.0  | 29.0                 | 33.0  | 21.0                | 27.0  | 19.0              | 20.5  | 82.0                  | 53.0   | 2.0                       | -     | 0.8                     | 3.2   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 18.0                  | 26.5  |
| 21            | 16.0                 | 25.0  | 31.0                 | 33.5  | 23.0                | 28.5  | 19.0              | 19.0  | 67.0                  | 36.0   | -                         | -     | 0.4                     | 2.8   | SW                      | SW    | -             | -     | 0.5                  | 2.0   | 18.0                  | 27.5  |
| 22            | 16.0                 | 24.0  | 32.0                 | 34.0  | 20.0                | 20.0  | 18.0              | 19.5  | 81.0                  | 95.0   | -                         | -     | 0.3                     | 1.7   | SE                      | SW    | -             | -     | 0.5                  | 2.0   | 16.0                  | 27.0  |
| 23            | 16.5                 | 24.0  | 33.5                 | 35.0  | 22.0                | 29.0  | 19.0              | 21.0  | 74.0                  | 46.0   | -                         | -     | 0.2                     | 2.6   | NE                      | SW    | -             | -     | 0.5                  | 2.0   | 16.0                  | 27.0  |
| 24            | 19.0                 | 25.0  | 35.0                 | 36.0  | 24.0                | 30.0  | 20.0              | 22.0  | 68.0                  | 42.0   | 2.0                       | -     | 0.7                     | 3.0   | SW                      | SW    | -             | -     | 0.5                  | 2.0   | 18.5                  | 27.5  |
| 25            | 16.5                 | 24.0  | 34.0                 | 36.0  | 24.0                | 29.0  | 20.0              | 23.0  | 63.0                  | 58.0   | -                         | -     | 0.7                     | 2.7   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 19.5                  | 28.0  |
| 26            | 19.0                 | 25.0  | 32.0                 | 36.0  | 25.0                | 31.0  | 21.0              | 23.0  | 68.0                  | 47.0   | -                         | 2.0   | 0.7                     | 2.1   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 30.0  |
| 27            | 18.0                 | 26.0  | 32.0                 | 35.0  | 24.0                | 30.0  | 18.0              | 21.0  | 53.0                  | 42.0   | 2.0                       | -     | 0.7                     | 3.2   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 21.5  |
| 28            | 18.0                 |       | 33.0                 |       | 25.0                |       | 19.0              |       | 54.0                  |        | 2.0                       |       | 0.6                     |       | NE                      |       | -             |       | 1.0                  |       | 19.0                  |       |
| Total         | 452.0                | 573.0 | 760.5                | 846.5 | 595.5               | 734.0 | 497.5             | 570.0 | 1948.0                | 1600.0 | 32.0                      | 18.0  | 23.5                    | 80.0  |                         |       | 23.6          | 1.2   | 18.0                 | 41.5  | 482.0                 | 703.0 |
| Average       | 16.1                 | 20.5  | 27.2                 | 30.2  | 21.3                | 26.2  | 17.8              | 20.4  | 69.6                  | 57.1   | 1.1                       | 0.6   | 0.8                     | 2.9   |                         |       |               |       |                      |       | 17.2                  | 25.1  |
|               | 18.3                 |       | 28.7                 |       | 23.7                |       | 19.1              |       | 63.4                  |        | 0.9                       |       | 1.8                     |       |                         |       | 24.8          |       | 59.5                 |       | 21.2                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| March 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM      |                      | 26.0  |                      | 35.0   |                     | 29.5   |                   | 20.5  |                       | 40.0   |                           | -     |                         | 2.5   |                         | SE    |               | -     |                      | 2.0   |                       | 29.5  |
| 1          | 19.0                 | 19.0  | 33.0                 | 37.0   | 25.5                | 31.0   | 21.0              | 22.0  | 69.0                  | 44.0   | 2.0                       | -     | 0.5                     | 2.1   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 30.5  |
| 2          | 20.0                 | 26.5  | 33.0                 | 34.0   | 26.0                | 32.0   | 22.0              | 23.5  | 72.0                  | 46.0   | -                         | -     | 0.3                     | 2.6   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 21.0                  | 31.0  |
| 3          | 22.0                 | 28.0  | 30.5                 | 38.0   | 27.0                | 32.0   | 22.0              | 22.5  | 63.0                  | 41.0   | -                         | -     | 0.4                     | 2.8   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 22.0                  | 31.0  |
| 4          | 21.0                 | 27.5  | 35.0                 | 38.5   | 27.0                | 32.0   | 22.0              | 23.5  | 68.0                  | 46.0   | -                         | 2.0   | 0.3                     | 0.4   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 22.0                  | 31.0  |
| 5          | 22.0                 | 27.0  | 36.0                 | 36.0   | 26.0                | 30.0   | 20.5              | 21.0  | 62.0                  | 62.0   | -                         | 2.0   | 2.6                     | 6.5   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 21.5                  | 27.0  |
| 6          | 20.0                 | 27.0  | 32.0                 | 37.0   | 26.0                | 31.0   | 21.0              | 21.0  | 62.0                  | 39.0   | 2.0                       | -     | 1.1                     | 3.0   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 29.0  |
| 7          | 20.0                 | 27.0  | 36.0                 | 37.0   | 28.0                | 31.5   | 21.5              | 23.0  | 64.0                  | 39.0   | -                         | -     | 0.3                     | 4.1   | SE                      | SE    | -             | -     | 0.5                  | 2.0   | 20.0                  | 29.5  |
| 8          | 20.0                 | 26.0  | 36.0                 | 36.5   | 24.0                | 31.0   | 18.0              | 20.0  | 53.0                  | 34.0   | 4.0                       | 2.0   | -                       | 7.9   | NE                      | NE    | -             | -     | 0.5                  | 2.0   | 20.0                  | 26.5  |
| 9          | 22.0                 | 26.0  | 36.0                 | 36.0   | 23.0                | 31.0   | 19.0              | 21.5  | 67.0                  | 41.0   | 2.0                       | -     | 2.1                     | 2.3   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 26.0  |
| 10         | 20.0                 | 26.0  | 35.0                 | 38.0   | 26.0                | 33.0   | 20.0              | 22.0  | 55.0                  | 35.0   | 2.0                       | -     | 0.4                     | 2.3   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 20.0                  | 29.0  |
| 11         | 22.0                 | 28.0  | 35.5                 | 39.0   | 27.0                | 30.0   | 20.0              | 22.0  | 50.0                  | 47.0   | 2.0                       | 2.0   | 0.8                     | 3.7   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 22.0                  | 30.0  |
| 12         | 21.0                 | 28.0  | 30.5                 | 39.0   | 28.0                | 32.0   | 21.0              | 22.0  | 57.0                  | 34.0   | -                         | -     | 0.9                     | 2.5   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 21.5                  | 29.5  |
| 13         | 22.0                 | 30.0  | 32.0                 | 40.0   | 30.0                | 32.0   | 22.0              | 24.0  | 59.0                  | 39.0   | -                         | -     | 3.1                     | 0.7   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 22.0                  | 30.0  |
| 14         | 20.0                 | 30.0  | 35.0                 | 40.0   | 31.0                | 34.5   | 23.5              | 24.5  | 52.0                  | 35.0   | -                         | -     | 2.5                     | 1.0   | SE                      | SE    | -             | -     | 1.0                  | 2.0   | 20.0                  | 32.0  |
| 15         | 23.0                 | 28.5  | 32.0                 | 39.0   | 30.0                | 33.0   | 22.0              | 24.0  | 59.0                  | 47.0   | -                         | 2.0   | 2.9                     | 1.5   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 22.5                  | 29.5  |
| 16         | 23.0                 | 24.0  | 35.0                 | 37.0   | 24.0                | 30.0   | 22.0              | 22.0  | 83.0                  | 91.0   | -                         | 2.0   | 1.6                     | 0.7   | SE                      | SW    | 1.0           | 1.0   | 0.5                  | -     | 21.0                  | 29.0  |
| 17         | 18.0                 | 26.0  | 30.0                 | 35.0   | 27.0                | 30.0   | 23.0              | 23.0  | 70.0                  | 53.0   | 2.0                       | 2.0   | 3.4                     | 0.7   | SW                      | SE    | -             | -     | 0.5                  | 2.0   | 22.0                  | 30.5  |
| 18         | 21.0                 | 29.0  | 35.0                 | 38.0   | 29.0                | 32.0   | 22.0              | 22.0  | 52.0                  | 39.0   | 2.0                       | -     | 0.9                     | 1.0   | SW                      | SE    | -             | -     | 0.5                  | 2.0   | 22.5                  | 31.0  |
| 19         | 20.0                 | 29.0  | 37.0                 | 39.0   | 30.0                | 33.0   | 20.0              | 20.5  | 36.0                  | 32.0   | 2.0                       | 2.0   | 3.5                     | 0.4   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 20.5                  | 30.0  |
| 20         | 21.0                 | 29.0  | 35.5                 | 40.0   | 28.0                | 34.0   | 19.0              | 21.0  | 39.0                  | 27.0   | 2.0                       | -     | 1.9                     | 0.5   | SE                      | SE    | -             | -     | 1.0                  | 2.0   | 20.5                  | 30.0  |
| 21         | 22.0                 | 29.0  | 35.5                 | 39.5   | 25.0                | 33.0   | 18.5              | 21.0  | 51.0                  | 32.0   | 2.0                       | 2.0   | 2.4                     | 2.2   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 21.5                  | 30.0  |
| 22         | 22.0                 | 30.0  | 34.0                 | 40.0   | 30.0                | 33.0   | 21.0              | 22.0  | 47.0                  | 32.0   | 2.0                       | 2.0   | 3.4                     | 1.2   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 21.0                  | 30.0  |
| 23         | 21.0                 | 32.0  | 35.0                 | 40.5   | 31.0                | 32.5   | 19.0              | 21.0  | 39.0                  | 24.0   | 2.0                       | 2.0   | 5.6                     | 1.2   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 21.5                  | 30.0  |
| 24         | 21.5                 | 31.0  | 39.0                 | 40.0   | 32.0                | 36.0   | 21.0              | 21.0  | 34.0                  | 22.0   | 4.0                       | 2.0   | 4.3                     | 0.9   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 21.5                  | 32.0  |
| 25         | 22.0                 | 31.0  | 39.0                 | 40.0   | 31.0                | 35.5   | 20.0              | 22.0  | 34.0                  | 30.0   | 2.0                       | -     | 1.8                     | 2.9   | NE                      | SE    | -             | -     | 2.0                  | 2.5   | 21.5                  | 31.0  |
| 26         | 21.0                 | 32.0  | 37.5                 | 40.0   | 34.0                | 34.5   | 20.0              | 22.0  | 32.0                  | 23.0   | -                         | -     | 3.4                     | 0.7   | SW                      | SW    | -             | -     | 1.0                  | 2.5   | 21.5                  | 31.0  |
| 27         | 20.5                 | 32.0  | 37.0                 | 41.0   | 35.5                | 36.0   | 21.0              | 23.0  | 34.0                  | 26.0   | 2.0                       | -     | 3.1                     | 0.8   | NE                      | SE    | -             | -     | 2.0                  | 2.5   | 21.5                  | 32.0  |
| 28         | 20.0                 | 32.0  | 41.0                 | 42.0   | 32.0                | 35.0   | 21.0              | 21.0  | 34.0                  | 26.0   | 2.0                       | -     | 1.2                     | 0.7   | NE                      | SW    | -             | -     | 2.0                  | 2.5   | 21.0                  | 33.0  |
| 29         | 22.0                 | 32.0  | 41.0                 | 42.0   | 31.0                | 36.0   | 20.5              | 22.0  | 39.0                  | 44.0   | 2.0                       | -     | 3.9                     | 0.5   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 30.5  |
| 30         | 22.0                 | 33.0  | 38.0                 | 43.0   | 35.0                | 37.0   | 22.0              | 23.0  | 30.0                  | 24.0   | -                         | -     | 3.2                     | 1.0   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 22.0                  | 31.0  |
| 31         | 24.0                 |       | 39.0                 |        | 35.0                |        | 23.0              |       | 30.0                  |        | 2.0                       |       | 1.0                     |       | NE                      |       | -             |       | 2.0                  |       | 21.0                  |       |
| Total      | 655.0                | 881.5 | 1096.0               | 1197.0 | 894.0               | 1013.0 | 648.5             | 683.5 | 1596.0                | 1194.0 | 42.0                      | 24.0  | 62.8                    | 61.3  |                         |       | 1.0           | 1.0   | 34.5                 | 62.5  | 656.0                 | 932.0 |
| Average    | 21.1                 | 28.4  | 35.4                 | 38.6   | 28.8                | 32.7   | 20.9              | 22.0  | 51.5                  | 38.5   | 1.4                       | 0.8   | 2.0                     | 2.0   |                         |       |               |       |                      |       | 21.2                  | 30.1  |
|            | 24.8                 |       | 37.0                 |        | 30.8                |        | 21.5              |       | 45.0                  |        | 1.1                       |       | 2.0                     |       |                         |       | 2.0           |       | 97.0                 |       | 25.6                  |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| April 2018 |                         |        |                         |        |                        |        |                      |       |                       |       |                              |       |                            |       |                            |       |               |       |                            |       |                          |       |
|------------|-------------------------|--------|-------------------------|--------|------------------------|--------|----------------------|-------|-----------------------|-------|------------------------------|-------|----------------------------|-------|----------------------------|-------|---------------|-------|----------------------------|-------|--------------------------|-------|
|            | Min Temperature<br>(°C) |        | Max Temperature<br>(°C) |        | Dry Bulb Temp.<br>(°C) |        | Wet Bulb Temp.<br>°C |       | Relative Humidity (%) |       | Inst. Wind<br>Speed (kms/hr) |       | Av. Wind Speed<br>(kms/hr) |       | Wind Direction<br>(16 pts) |       | Rainfall (mm) |       | Pan<br>Evaporation<br>(mm) |       | Temp - Pan<br>Water (°C) |       |
| Day        | 08:30                   | 17:30  | 08:30                   | 17:30  | 08:30                  | 17:30  | 08:30                | 17:30 | 08:30                 | 17:30 | 08:30                        | 17:30 | 08:30                      | 17:30 | 08:30                      | 17:30 | 08:30         | 17:30 | 08:30                      | 17:30 | 08:30                    | 17:30 |
| LPM        |                         | 34.0   |                         | 43.0   |                        | 37.0   |                      | 23.5  |                       | 28.0  |                              | 2.0   |                            | 6.5   |                            | SE    |               | -     |                            | 3.0   |                          | 31.0  |
| 1          | 26.0                    | 30.0   | 36.0                    | 39.0   | 32.0                   | 37.0   | 20.0                 | 23.0  | 44.0                  | 70.0  | 2.0                          | 4.0   | 1.7                        | 5.2   | SE                         | SE    | -             | 2.8   | 3.0                        | 1.8   | 20.0                     | 23.0  |
| 2          | 23.5                    | 27.0   | 33.5                    | 39.0   | 29.0                   | 32.0   | 20.0                 | 20.0  | 68.0                  | 29.0  | 2.0                          | -     | 3.9                        | 3.2   | SE                         | SE    | -             | -     | 0.5                        | 2.0   | 20.0                     | 21.0  |
| 3          | 22.0                    | 23.0   | 36.0                    | 41.0   | 29.0                   | 35.0   | 22.0                 | 22.0  | 52.0                  | 30.0  | -                            | -     | 1.4                        | 3.3   | SE                         | SE    | -             | -     | 1.0                        | 2.0   | 22.0                     | 33.0  |
| 4          | 24.0                    | 34.0   | 38.0                    | 41.0   | 32.0                   | 35.0   | 19.0                 | 24.0  | 49.0                  | 18.0  | 2.0                          | 2.0   | 0.9                        | 4.3   | SE                         | SE    | -             | -     | 1.0                        | 2.0   | 21.0                     | 32.0  |
| 5          | 24.0                    | 35.0   | 39.0                    | 43.0   | 31.0                   | 32.0   | 21.0                 | 22.0  | 39.0                  | 39.0  | -                            | 2.0   | 0.9                        | 5.6   | NE                         | SW    | -             | -     | 1.0                        | 3.0   | 21.0                     | 33.0  |
| 6          | 25.0                    | 33.0   | 36.0                    | 43.0   | 31.0                   | 33.0   | 22.0                 | 24.0  | 46.0                  | 44.0  | -                            | 4.0   | 1.1                        | 4.1   | NE                         | SW    | -             | -     | 2.0                        | 2.0   | 22.0                     | 32.0  |
| 7          | 25.0                    | 32.0   | 38.0                    | 42.0   | 32.0                   | 34.0   | 21.0                 | 23.0  | 41.0                  | 34.0  | 2.0                          | -     | 1.8                        | 4.6   | SE                         | SW    | -             | -     | 2.0                        | 2.0   | 26.0                     | 32.0  |
| 8          | 25.0                    | 33.0   | 39.0                    | 42.0   | 31.0                   | 34.0   | 22.0                 | 22.0  | 44.0                  | 32.0  | -                            | 4.0   | 3.1                        | 3.2   | SE                         | SE    | -             | -     | 2.0                        | 3.0   | 23.0                     | 32.0  |
| 9          | 24.0                    | 33.0   | 37.0                    | 42.5   | 30.5                   | 34.0   | 20.5                 | 23.0  | 36.0                  | 36.0  | 2.0                          | 2.0   | 1.2                        | 5.2   | SE                         | NE    | -             | -     | 1.0                        | 3.0   | 23.5                     | 31.5  |
| 10         | 24.0                    | 32.0   | 40.0                    | 42.0   | 29.0                   | 34.0   | 20.0                 | 22.0  | 52.0                  | 32.0  | -                            | 2.0   | 2.7                        | 4.4   | NE                         | SE    | -             | -     | 1.0                        | 2.0   | 23.0                     | 31.5  |
| 11         | 26.0                    | 31.0   | 41.0                    | 43.0   | 29.5                   | 37.0   | 21.0                 | 22.0  | 43.0                  | 47.0  | 4.0                          | -     | 1.2                        | 4.0   | SW                         | SW    | -             | -     | 1.0                        | 2.5   | 24.0                     | 32.5  |
| 12         | 26.0                    | 30.0   | 39.0                    | 42.0   | 29.5                   | 35.0   | 20.0                 | 21.0  | 39.0                  | 26.0  | 2.0                          | 2.0   | 1.4                        | 6.6   | NW                         | SE    | -             | -     | 2.0                        | 2.5   | 24.5                     | 32.5  |
| 13         | 25.0                    | 31.0   | 38.0                    | 41.0   | 32.0                   | 32.0   | 20.0                 | 22.0  | 39.0                  | 29.0  | 2.0                          | 6.0   | 2.3                        | 4.1   | NE                         | SE    | -             | -     | 2.0                        | 2.5   | 24.0                     | 30.0  |
| 14         | 24.0                    | 30.0   | 37.0                    | 41.0   | 32.0                   | 37.0   | 20.0                 | 25.5  | 43.0                  | 50.0  | 2.0                          | -     | 1.9                        | 4.2   | NW                         | NW    | 6.2           | 8.8   | 0.2                        | 2.8   | 24.5                     | 28.5  |
| 15         | 21.0                    | 31.0   | 39.0                    | 41.0   | 33.0                   | 34.0   | 25.0                 | 25.0  | 44.0                  | 36.0  | -                            | -     | 2.1                        | 3.2   | SE                         | SE    | -             | -     | -                          | 2.0   | 22.0                     | 33.0  |
| 16         | 22.0                    | 38.0   | 36.0                    | 40.5   | 32.0                   | 33.0   | 26.0                 | 27.0  | 55.0                  | 49.0  | -                            | -     | 2.7                        | 2.4   | SE                         | SE    | 2.8           | -     | 0.8                        | 2.0   | 23.0                     | 35.0  |
| 17         | 26.0                    | 36.0   | 40.0                    | 44.0   | 36.0                   | 38.0   | 24.0                 | 27.0  | 48.0                  | 36.0  | 2.0                          | -     | 0.5                        | 5.1   | NW                         | SE    | -             | -     | 1.5                        | 3.0   | 30.0                     | 35.0  |
| 18         | 26.0                    | 36.5   | 41.0                    | 45.0   | 37.0                   | 37.5   | 23.0                 | 23.0  | 43.0                  | 32.0  | 2.0                          | -     | 0.9                        | 4.7   | SW                         | SE    | -             | -     | 2.0                        | 3.0   | 25.0                     | 35.0  |
| 19         | 26.0                    | 37.5   | 41.0                    | 45.0   | 37.0                   | 38.0   | 21.0                 | 24.0  | 28.0                  | 24.0  | -                            | 2.0   | -                          | 2.6   | SW                         | NE    | -             | -     | 2.0                        | 2.0   | 25.0                     | 37.0  |
| 20         | 27.0                    | 38.0   | 42.0                    | 46.0   | 37.0                   | 41.0   | 21.0                 | 23.0  | 32.0                  | 10.0  | 2.0                          | -     | 0.5                        | 4.6   | SE                         | SW    | -             | -     | 3.0                        | 3.0   | 25.0                     | 34.0  |
| 21         | 27.0                    | 39.0   | 42.0                    | 46.0   | 40.0                   | 41.0   | 22.0                 | 26.0  | 20.0                  | 13.0  | -                            | 2.0   | 2.5                        | 4.8   | SW                         | SW    | -             | -     | 2.0                        | 3.0   | 26.0                     | 34.0  |
| 22         | 27.0                    | 38.5   | 42.0                    | 46.0   | 40.0                   | 41.0   | 20.0                 | 20.5  | 29.0                  | 16.0  | 2.0                          | -     | 1.2                        | 4.4   | SE                         | NW    | -             | -     | 2.0                        | 3.0   | 25.0                     | 35.0  |
| 23         | 38.0                    | 37.0   | 42.0                    | 45.0   | 37.5                   | 38.0   | 21.0                 | 24.0  | 13.0                  | 17.0  | 2.0                          | -     | 1.0                        | 5.0   | NE                         | SE    | -             | -     | 2.0                        | 3.0   | 22.0                     | 34.0  |
| 24         | 25.0                    | 36.0   | 41.0                    | 45.0   | 37.0                   | 39.0   | 21.0                 | 23.0  | 32.0                  | 16.0  | 2.0                          | -     | 1.3                        | 4.5   | NE                         | SE    | -             | -     | 2.0                        | 3.0   | 25.0                     | 33.5  |
| 25         | 25.0                    | 37.0   | 41.0                    | 45.5   | 39.0                   | 40.0   | 20.0                 | 23.0  | 23.0                  | 13.0  | 4.0                          | 2.0   | 0.9                        | 4.4   | SW                         | SE    | -             | -     | 2.0                        | 2.0   | 23.5                     | 34.5  |
| 26         | 26.0                    | 32.0   | 41.0                    | 45.0   | 35.0                   | 39.0   | 21.0                 | 23.0  | 23.0                  | 22.0  | 2.0                          | 2.0   | 0.9                        | 5.0   | SW                         | SE    | -             | 2.4   | 2.0                        | 2.0   | 24.5                     | 30.0  |
| 27         | 24.5                    | 36.0   | 37.5                    | 45.0   | 37.0                   | 40.0   | 22.0                 | 26.0  | 28.0                  | 13.0  | 2.0                          | 2.0   | 2.1                        | 4.0   | SE                         | NW    | -             | -     | 2.0                        | 3.0   | 23.0                     | 34.0  |
| 28         | 25.0                    | 36.5   | 43.0                    | 45.0   | 40.0                   | 46.0   | 21.0                 | 25.0  | 30.0                  | 16.0  | 2.0                          | 2.0   | 3.0                        | 4.9   | SE                         | SE    | -             | -     | 2.0                        | 3.0   | 26.0                     | 34.5  |
| 29         | 26.0                    | 36.0   | 42.0                    | 45.0   | 38.0                   | 40.0   | 26.0                 | 21.0  | 32.0                  | 13.0  | 2.0                          | 2.0   | 2.4                        | 4.0   | SW                         | SE    | -             | -     | 2.0                        | 3.0   | 25.0                     | 34.5  |
| 30         | 26.0                    |        | 42.0                    |        | 39.0                   |        | 21.5                 |       | 32.0                  |       | 2.0                          |       | 2.9                        |       | SW                         |       | -             |       | 2.0                        |       | 26.0                     |       |
| Total      | 761.0                   | 1013.0 | 1180.0                  | 1293.5 | 1024.0                 | 1103.5 | 644.0                | 699.5 | 1147.0                | 870.0 | 46.0                         | 44.0  | 50.4                       | 132.1 |                            |       | 9.0           | 14.0  | 49.0                       | 76.1  | 714.5                    | 968.5 |
| Average    | 25.4                    | 33.8   | 39.3                    | 43.1   | 34.1                   | 36.8   | 21.5                 | 23.3  | 38.2                  | 29.0  | 1.5                          | 1.5   | 1.7                        | 4.4   |                            |       |               |       |                            |       | 23.8                     | 32.3  |
|            | 29.6                    |        | 41.2                    |        | 35.5                   |        | 22.4                 |       | 33.6                  |       | 1.5                          |       | 3.0                        |       |                            |       | 23.0          |       | 125.1                      |       | 28.1                     |       |

## Twice Daily Climatic Data

Station Code : EMP00J1  
Local River/Basin : Seonath

Station Name : Simga  
Sub-Division : Raipur  
- 0.0 .. N.A.

| May 2018 |                      |        |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|----------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|          | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day      | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM      |                      | 37.0   |                      | 46.0   |                     | 40.0   |                   | 24.5  |                       | 13.0   |                           | 2.0   |                         | 3.7   |                         | SE    |               | -     |                      | 3.0   |                       | 34.0   |
| 1        | 29.0                 | 30.0   | 40.0                 | 46.0   | 29.0                | 35.0   | 21.0              | 21.0  | 46.0                  | 26.0   | 2.0                       | 4.0   | 4.4                     | 4.2   | SE                      | NE    | -             | 8.6   | 2.0                  | 4.0   | 26.0                  | 35.0   |
| 2        | 26.0                 | 26.0   | 38.5                 | 45.0   | 36.0                | 29.0   | 23.0              | 20.0  | 30.0                  | 40.0   | 2.0                       | 4.0   | 3.1                     | 6.1   | NW                      | SW    | -             | -     | 2.0                  | 2.6   | 25.5                  | 31.0   |
| 3        | 22.0                 | 25.0   | 35.0                 | 39.0   | 24.0                | 35.0   | 20.0              | 23.0  | 68.0                  | 34.0   | 2.0                       | 2.0   | 4.0                     | 3.1   | SE                      | SE    | 9.8           | -     | 0.8                  | 3.0   | 22.5                  | 33.0   |
| 4        | 26.0                 | 35.0   | 37.0                 | 43.0   | 37.0                | 39.0   | 21.0              | 24.5  | 20.0                  | 24.0   | 2.0                       | 2.0   | 1.5                     | 3.3   | SE                      | SE    | -             | -     | 1.0                  | 4.0   | 25.0                  | 34.5   |
| 5        | 28.0                 | 27.0   | 42.0                 | 44.0   | 40.0                | 40.0   | 27.0              | 25.0  | 34.0                  | 27.0   | 2.0                       | -     | 2.7                     | 7.8   | SW                      | SW    | -             | -     | 1.0                  | 4.0   | 26.0                  | 35.0   |
| 6        | 30.0                 | 40.0   | 43.0                 | 48.0   | 41.0                | 42.0   | 28.0              | 27.0  | 36.0                  | 25.0   | 2.0                       | 2.0   | 0.9                     | 7.3   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 35.5   |
| 7        | 30.5                 | 40.0   | 44.0                 | 49.0   | 41.5                | 43.0   | 32.5              | 25.0  | 53.0                  | 21.0   | 2.0                       | -     | 1.6                     | 5.2   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 35.0   |
| 8        | 32.0                 | 42.0   | 45.0                 | 49.0   | 44.0                | 43.5   | 28.0              | 33.5  | 27.0                  | 50.0   | 2.0                       | 2.0   | 0.7                     | 5.8   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 27.5                  | 35.0   |
| 9        | 31.0                 | 43.0   | 45.0                 | 49.0   | 44.0                | 43.0   | 37.0              | 39.0  | 63.0                  | 78.0   | -                         | 2.0   | 1.2                     | 3.8   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 27.5                  | 34.5   |
| 10       | 30.0                 | 43.0   | 44.0                 | 43.5   | 40.5                | 43.0   | 37.0              | 39.0  | 80.0                  | 78.0   | 2.0                       | 2.0   | 2.2                     | 8.1   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 27.5                  | 35.0   |
| 11       | 30.0                 | 37.0   | 45.0                 | 47.0   | 41.0                | 39.0   | 35.0              | 24.0  | 67.0                  | 27.0   | -                         | 2.0   | 0.8                     | 2.5   | SE                      | SE    | -             | 6.0   | 2.0                  | 4.0   | 27.0                  | 33.0   |
| 12       | 28.0                 | 30.0   | 43.0                 | 47.0   | 42.0                | 28.0   | 29.0              | 22.0  | 36.0                  | 57.0   | 2.0                       | -     | 2.2                     | 4.9   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 32.0   |
| 13       | 26.0                 | 34.0   | 43.0                 | 45.0   | 35.0                | 41.0   | 32.0              | 38.0  | 81.0                  | 82.0   | 2.0                       | 2.0   | 3.2                     | 5.8   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 33.0   |
| 14       | 29.0                 | 34.0   | 42.0                 | 44.0   | 36.0                | 39.0   | 35.0              | 36.0  | 93.0                  | 82.0   | 2.0                       | 2.0   | 1.8                     | 6.2   | SE                      | SW    | -             | -     | 1.0                  | 3.0   | 24.0                  | 34.0   |
| 15       | 25.0                 | 34.0   | 39.0                 | 44.0   | 32.0                | 39.5   | 26.0              | 36.0  | 61.0                  | 79.0   | 2.0                       | -     | 3.9                     | 7.9   | SE                      | SW    | -             | -     | 1.0                  | 4.0   | 25.0                  | 34.5   |
| 16       | 26.0                 | 34.0   | 39.5                 | 45.0   | 33.0                | 34.0   | 27.0              | 21.0  | 62.0                  | 27.0   | 2.0                       | 2.0   | 1.1                     | 4.7   | SE                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 31.0   |
| 17       | 29.0                 | 38.0   | 39.0                 | 49.0   | 38.0                | 38.0   | 36.0              | 24.0  | 87.0                  | 28.0   | -                         | 2.0   | 1.6                     | 4.6   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 25.5                  | 33.5   |
| 18       | 28.5                 | 39.0   | 42.0                 | 46.5   | 39.0                | 41.0   | 37.0              | 39.0  | 88.0                  | 88.0   | 2.0                       | -     | 1.2                     | 6.3   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 27.0                  | 33.5   |
| 19       | 30.5                 | 41.0   | 43.5                 | 49.0   | 39.5                | 42.0   | 38.0              | 40.0  | 91.0                  | 85.0   | 2.0                       | -     | 2.1                     | 2.9   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 27.5                  | 36.0   |
| 20       | 32.0                 | 40.0   | 44.0                 | 49.0   | 38.5                | 42.0   | 38.0              | 40.0  | 96.0                  | 88.0   | 2.0                       | -     | 1.6                     | 3.8   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 36.0   |
| 21       | 31.0                 | 39.0   | 44.0                 | 47.0   | 39.0                | 40.0   | 38.0              | 29.5  | 94.0                  | 47.0   | 2.0                       | 2.0   | 4.3                     | 3.9   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 27.5                  | 35.5   |
| 22       | 32.0                 | 38.0   | 47.0                 | 48.0   | 39.5                | 38.0   | 27.0              | 25.0  | 34.0                  | 32.0   | 2.0                       | 2.0   | 2.8                     | 4.7   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 34.0   |
| 23       | 29.0                 | 37.0   | 40.0                 | 48.0   | 37.0                | 41.0   | 25.0              | 25.0  | 36.0                  | 25.0   | 2.0                       | -     | 3.4                     | 5.2   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 27.5                  | 36.0   |
| 24       | 32.0                 | 39.0   | 44.0                 | 48.0   | 38.0                | 42.0   | 26.0              | 25.5  | 36.0                  | 22.0   | 2.0                       | -     | 1.5                     | 5.2   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 35.5   |
| 25       | 32.0                 | 40.0   | 44.0                 | 48.0   | 39.0                | 42.0   | 26.0              | 26.0  | 34.0                  | 25.0   | 2.0                       | 2.0   | 2.6                     | 4.4   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 36.5   |
| 26       | 30.0                 | 37.5   | 44.0                 | 48.0   | 37.0                | 41.5   | 25.0              | 26.0  | 36.0                  | 22.0   | -                         | -     | 4.6                     | 2.9   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 27.5                  | 36.5   |
| 27       | 31.0                 | 31.0   | 43.0                 | 47.0   | 37.0                | 42.0   | 26.0              | 26.0  | 40.0                  | 25.0   | -                         | 2.0   | 2.3                     | 4.2   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 27.0                  | 35.5   |
| 28       | 31.0                 | 40.0   | 44.0                 | 48.0   | 41.0                | 42.5   | 27.0              | 26.0  | 32.0                  | 24.0   | 2.0                       | 2.0   | 1.0                     | 5.5   | SW                      | SW    | -             | 0.4   | 2.0                  | 4.0   | 27.0                  | 35.5   |
| 29       | 32.5                 | 36.0   | 44.0                 | 49.0   | 42.0                | 37.0   | 29.0              | 35.0  | 36.0                  | 87.0   | 2.0                       | 2.0   | 1.8                     | 4.7   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 34.0   |
| 30       | 30.0                 | 38.0   | 40.5                 | 48.0   | 39.0                | 46.0   | 38.0              | 42.0  | 94.0                  | 78.0   | -                         | 2.0   | 2.7                     | 2.9   | SE                      | SE    | -             | -     | 2.0                  | 4.0   | 27.5                  | 36.0   |
| 31       | 29.5                 |        | 45.0                 |        | 35.0                |        | 30.0              |       | 69.0                  |        | 2.0                       |       | 4.7                     |       | SE                      |       | -             |       | 2.0                  |       | 27.0                  |        |
| Total    | 908.5                | 1124.5 | 1313.0               | 1446.0 | 1174.5              | 1228.0 | 924.5             | 907.5 | 1760.0                | 1446.0 | 50.0                      | 46.0  | 73.2                    | 151.7 |                         |       | 9.8           | 15.0  | 56.8                 | 112.6 | 836.5                 | 1069.0 |
| Average  | 29.3                 | 36.3   | 42.4                 | 46.6   | 37.9                | 39.6   | 29.8              | 29.3  | 56.8                  | 46.6   | 1.6                       | 1.5   | 2.4                     | 4.9   |                         |       |               |       |                      |       | 27.0                  | 34.5   |
|          | 32.8                 |        | 44.5                 |        | 38.8                |        | 29.5              |       | 51.7                  |        | 1.5                       |       | 3.6                     |       |                         |       | 24.8          |       | 169.4                |       | 30.7                  |        |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 31.0  |                      | 44.0   |                     | 38.0  |                   | 25.0  |                       | 54.0   |                           | 4.0   |                         | 4.8   |                         | NE    |               | -     |                      | 4.0   |                       | 35.0  |
| 1       | 30.0                 | 28.0  | 39.0                 | 42.0   | 32.0                | 36.0  | 24.0              | 24.0  | 49.0                  | 34.0   | 2.0                       | 8.0   | 1.0                     | 7.0   | NE                      | NE    | -             | 30.8  | 1.5                  | 3.8   | 30.0                  | 28.0  |
| 2       | 27.0                 | 30.0  | 30.0                 | 42.0   | 34.0                | 40.0  | 22.0              | 24.0  | 36.0                  | 23.0   | 6.0                       | 8.0   | 0.9                     | 5.6   | NE                      | NE    | 1.2           | -     | 1.2                  | 3.0   | 28.0                  | 36.0  |
| 3       | 30.0                 | 34.0  | 35.0                 | 46.0   | 36.0                | 38.0  | 24.0              | 25.0  | 34.0                  | 32.0   | 6.0                       | 6.0   | 5.1                     | 5.1   | NE                      | NE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 37.0  |
| 4       | 31.0                 | 33.5  | 38.0                 | 45.5   | 34.0                | 36.0  | 25.0              | 25.0  | 46.0                  | 38.0   | 8.0                       | 8.0   | 3.4                     | 7.4   | NE                      | NE    | -             | -     | 2.0                  | 4.0   | 30.0                  | 39.0  |
| 5       | 31.0                 | 35.0  | 36.0                 | 46.0   | 36.0                | 34.0  | 25.0              | 24.0  | 38.0                  | 41.0   | 8.0                       | 10.0  | 4.0                     | 7.0   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 30.0                  | 36.0  |
| 6       | 28.5                 | 28.0  | 34.0                 | 36.0   | 32.0                | 34.0  | 24.0              | 27.0  | 49.0                  | 56.0   | 8.0                       | 2.0   | 2.2                     | 6.4   | NW                      | NW    | -             | 0.2   | 2.0                  | 3.0   | 28.0                  | 31.0  |
| 7       | 27.5                 | 31.0  | 33.5                 | 41.0   | 30.0                | 36.0  | 24.0              | 25.0  | 59.0                  | 38.0   | 4.0                       | 8.0   | 2.3                     | 7.6   | NW                      | NE    | -             | -     | 2.0                  | 4.0   | 27.5                  | 35.0  |
| 8       | 28.0                 | 31.0  | 37.0                 | 42.0   | 32.0                | 36.0  | 24.0              | 24.0  | 49.0                  | 34.0   | 4.0                       | 2.0   | 6.0                     | 0.3   | NW                      | NW    | -             | 0.8   | 2.0                  | 3.0   | 29.0                  | 35.0  |
| 9       | 28.5                 | 32.5  | 36.5                 | 44.0   | 32.0                | 34.0  | 24.0              | 23.0  | 49.0                  | 36.0   | -                         | 8.0   | 2.8                     | 7.2   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 30.0                  | 34.0  |
| 10      | 26.5                 | 31.0  | 30.0                 | 43.0   | 30.0                | 34.0  | 22.0              | 22.0  | 47.0                  | 32.0   | 2.0                       | 2.0   | 4.0                     | 5.5   | NW                      | SW    | 0.8           | 2.8   | 1.8                  | 4.0   | 28.0                  | 34.0  |
| 11      | 27.0                 | 29.0  | 34.0                 | 38.0   | 29.0                | 32.0  | 21.0              | 21.0  | 46.0                  | 34.0   | 4.0                       | 8.0   | 3.5                     | 6.7   | SW                      | SW    | -             | -     | 1.5                  | 4.0   | 27.0                  | 33.0  |
| 12      | 27.0                 | 29.5  | 32.5                 | 39.0   | 30.0                | 36.0  | 22.0              | 23.0  | 47.0                  | 30.0   | 4.0                       | 8.0   | 4.7                     | 8.3   | SW                      | SW    | -             | -     | 1.5                  | 4.0   | 27.5                  | 34.5  |
| 13      | 25.0                 | 26.0  | 35.0                 | 39.0   | 30.0                | 30.0  | 22.0              | 20.0  | 47.0                  | 36.0   | 6.0                       | 4.0   | 1.8                     | 9.8   | SW                      | SW    | -             | 10.4  | 1.5                  | 3.4   | 27.0                  | 30.0  |
| 14      | 25.5                 | 31.0  | 31.0                 | 40.0   | 31.0                | 32.0  | 26.0              | 24.0  | 72.0                  | 49.0   | 4.0                       | 6.0   | 2.2                     | 5.7   | SW                      | SW    | -             | -     | 1.5                  | 4.0   | 29.0                  | 34.0  |
| 15      | 27.5                 | 33.0  | 32.5                 | 45.0   | 32.0                | 36.0  | 26.0              | 25.0  | 61.0                  | 38.0   | 4.0                       | 8.0   | 3.5                     | 5.9   | SW                      | SW    | -             | -     | 1.5                  | 4.0   | 29.5                  | 35.0  |
| 16      | 26.0                 | 27.0  | 35.0                 | 41.0   | 28.0                | 29.0  | 24.0              | 24.0  | 70.0                  | 64.0   | 6.0                       | 2.0   | 2.2                     | 5.7   | SW                      | SW    | 0.4           | 1.2   | 1.9                  | 3.7   | 27.5                  | 30.5  |
| 17      | 25.5                 | 29.5  | 29.0                 | 42.0   | 30.0                | 38.0  | 24.0              | 25.0  | 59.0                  | 32.0   | 8.0                       | 8.0   | 3.1                     | 5.4   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 38.0  |
| 18      | 29.5                 | 27.5  | 38.0                 | 44.0   | 32.0                | 34.0  | 25.0              | 24.0  | 55.0                  | 41.0   | 8.0                       | 2.0   | 2.7                     | 5.3   | SW                      | SW    | -             | 19.6  | 2.0                  | 3.6   | 29.5                  | 33.0  |
| 19      | 26.5                 | 28.5  | 34.0                 | 42.0   | 29.0                | 38.0  | 25.0              | 25.0  | 71.0                  | 32.0   | 2.0                       | 4.0   | 2.9                     | 5.1   | SE                      | SW    | 2.4           | -     | 1.4                  | 4.0   | 27.5                  | 35.0  |
| 20      | 27.0                 | 31.0  | 38.0                 | 41.0   | 32.0                | 32.0  | 24.0              | 25.0  | 49.0                  | 55.0   | 4.0                       | 10.0  | 1.2                     | 8.2   | SW                      | SE    | -             | 1.2   | 2.0                  | 4.0   | 28.5                  | 32.0  |
| 21      | 26.0                 | 27.5  | 32.5                 | 39.0   | 28.0                | 29.0  | 25.0              | 24.0  | 77.0                  | 64.0   | 2.0                       | 2.0   | 2.0                     | 5.3   | SW                      | SE    | 8.8           | -     | 1.8                  | 3.5   | 27.5                  | 31.0  |
| 22      | 24.0                 | 26.0  | 28.0                 | 38.0   | 28.0                | 29.0  | 24.0              | 24.0  | 70.0                  | 64.0   | 4.0                       | 8.0   | 2.1                     | 6.3   | SW                      | SE    | 2.4           | 1.2   | 1.9                  | 2.2   | 26.5                  | 30.0  |
| 23      | 24.0                 | 26.0  | 28.0                 | 39.0   | 28.0                | 28.0  | 25.0              | 24.0  | 77.0                  | 70.0   | 2.0                       | 4.0   | 1.0                     | 5.5   | SW                      | SE    | 0.8           | 1.2   | 1.6                  | 2.2   | 26.0                  | 31.0  |
| 24      | 24.0                 | 29.0  | 32.0                 | 42.0   | 30.0                | 30.0  | 24.0              | 24.0  | 59.0                  | 59.0   | 4.0                       | 4.0   | 3.2                     | 6.2   | SW                      | SE    | -             | -     | 1.5                  | 3.5   | 27.0                  | 32.0  |
| 25      | 24.0                 | 26.0  | 32.0                 | 35.0   | 28.0                | 29.0  | 25.0              | 24.0  | 77.0                  | 64.0   | 4.0                       | 10.0  | 2.1                     | 7.1   | SW                      | SE    | 8.4           | -     | 1.4                  | 3.0   | 26.0                  | 31.5  |
| 26      | 26.0                 | 27.0  | 28.0                 | 34.0   | 27.0                | 29.0  | 24.0              | 25.0  | 77.0                  | 71.0   | 4.0                       | 4.0   | 2.2                     | 5.3   | SW                      | SW    | 1.2           | 10.0  | 1.2                  | 3.0   | 27.0                  | 32.0  |
| 27      | 25.5                 | 26.5  | 28.5                 | 36.5   | 27.0                | 27.0  | 25.0              | 25.0  | 84.0                  | 84.0   | 4.0                       | 6.0   | 3.3                     | 4.6   | SW                      | SW    | 2.0           | 18.8  | 1.0                  | 3.8   | 26.5                  | 30.0  |
| 28      | 25.5                 | 25.0  | 27.0                 | 34.0   | 27.0                | 26.0  | 25.0              | 25.0  | 84.0                  | 92.0   | 6.0                       | 2.0   | 3.2                     | 5.4   | NE                      | NE    | 0.4           | 50.8  | 1.4                  | 2.8   | 26.5                  | 28.0  |
| 29      | 24.5                 | 26.0  | 26.0                 | 31.5   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 4.0                       | 2.0   | 3.3                     | 4.8   | NE                      | NE    | 0.8           | 10.4  | 0.8                  | 2.4   | 26.0                  | 29.0  |
| 30      | 25.0                 |       | 28.5                 |        | 26.0                |       | 24.0              |       | 84.0                  |        | 6.0                       |       | 3.6                     |       | NE                      |       | 1.6           |       | -                    |       | 26.5                  |       |
| Total   | 803.0                | 876.0 | 978.5                | 1211.5 | 907.0               | 989.0 | 723.0             | 725.0 | 1806.0                | 1475.0 | 138.0                     | 168.0 | 85.2                    | 180.4 |                         |       | 31.2          | 159.4 | 47.9                 | 105.9 | 836.0                 | 989.5 |
| Average | 26.8                 | 29.2  | 32.6                 | 40.4   | 30.2                | 33.0  | 24.1              | 24.2  | 60.2                  | 49.2   | 4.6                       | 5.6   | 2.8                     | 6.0   |                         |       |               |       |                      |       | 27.9                  | 33.0  |
|         | 28.0                 |       | 36.5                 |        | 31.6                |       | 24.1              |       | 54.7                  |        | 5.1                       |       | 4.4                     |       |                         |       | 190.6         |       | 153.8                |       | 30.4                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| Jul-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|         | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 26.0  |                      | 32.0   |                     | 27.0  |                   | 24.0  |                       | 71.0   |                           | 6.0   |                         | 4.8   |                         | NE    |               | 2.4   |                      | 2.4   |                       | 28.0  |
| 1       | 24.5                 | 26.5  | 26.5                 | 28.0   | 27.0                | 28.0  | 24.0              | 25.0  | 77.0                  | 77.0   | 4.0                       | 4.0   | 3.4                     | 6.0   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 26.0                  | 29.0  |
| 2       | 25.0                 | 27.0  | 27.0                 | 30.0   | 26.0                | 27.0  | 23.0              | 24.0  | 76.0                  | 77.0   | 4.0                       | 6.0   | 4.5                     | 9.6   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 26.0                  | 31.0  |
| 3       | 25.0                 | 26.0  | 30.0                 | 30.0   | 27.0                | 29.0  | 24.0              | 24.0  | 77.0                  | 64.0   | 4.0                       | 4.0   | 4.2                     | 7.6   | SW                      | SW    | 4.0           | -     | 1.0                  | 1.5   | 26.5                  | 28.0  |
| 4       | 25.0                 | 26.0  | 27.0                 | 30.0   | 25.0                | 27.0  | 23.0              | 24.0  | 84.0                  | 77.0   | 4.0                       | 4.0   | 3.9                     | 8.2   | SW                      | SW    | -             | 0.4   | 1.0                  | 1.4   | 26.0                  | 27.5  |
| 5       | 23.5                 | 26.0  | 26.5                 | 33.0   | 27.0                | 30.0  | 24.0              | 25.0  | 77.0                  | 65.0   | 6.0                       | 6.0   | 3.6                     | 7.4   | NW                      | NW    | -             | 4.4   | 1.0                  | 2.4   | 25.0                  | 30.0  |
| 6       | 25.0                 | 28.5  | 30.0                 | 35.5   | 28.0                | 34.0  | 24.0              | 25.0  | 70.0                  | 46.0   | 4.0                       | 6.0   | 2.8                     | 7.9   | NW                      | NW    | -             | -     | 1.0                  | 2.5   | 26.5                  | 32.0  |
| 7       | 26.5                 | 30.0  | 33.0                 | 36.0   | 30.0                | 32.0  | 24.0              | 24.0  | 59.0                  | 49.0   | 4.0                       | 6.0   | 2.3                     | 9.5   | NW                      | NW    | -             | -     | 1.5                  | 3.0   | 28.0                  | 33.0  |
| 8       | 27.0                 | 29.0  | 34.0                 | 38.0   | 32.0                | 30.0  | 25.0              | 25.0  | 56.0                  | 65.0   | 6.0                       | 2.0   | 3.2                     | 10.9  | SW                      | SW    | -             | 2.4   | 1.5                  | 3.4   | 29.0                  | 31.0  |
| 9       | 24.0                 | 25.0  | 31.0                 | 29.0   | 28.0                | 26.0  | 25.0              | 24.0  | 77.0                  | 84.0   | 2.0                       | 4.0   | 4.1                     | 4.7   | SW                      | SW    | 14.4          | 22.8  | 1.4                  | 2.8   | 27.0                  | 29.5  |
| 10      | 24.0                 | 23.0  | 26.0                 | 28.0   | 24.0                | 26.0  | 23.0              | 24.0  | 91.0                  | 84.0   | 2.0                       | 4.0   | 2.8                     | 5.8   | SW                      | SW    | 22.8          | 0.8   | 0.8                  | 0.8   | 24.0                  | 27.0  |
| 11      | 23.0                 | 25.0  | 27.0                 | 29.0   | 24.0                | 27.0  | 23.0              | 24.0  | 91.0                  | 77.0   | 4.0                       | 4.0   | 2.0                     | 6.5   | SW                      | SW    | 1.2           | 0.4   | 1.2                  | 1.4   | 25.0                  | 27.5  |
| 12      | 24.0                 | 25.5  | 27.0                 | 33.5   | 26.0                | 30.0  | 24.0              | 25.0  | 77.0                  | 65.0   | 6.0                       | 6.0   | 3.9                     | 8.2   | NW                      | NW    | 21.6          | -     | 0.6                  | 1.5   | 25.0                  | 31.0  |
| 13      | 25.0                 | 25.0  | 31.0                 | 33.0   | 25.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 84.0   | 8.0                       | 4.0   | 3.2                     | 7.0   | NW                      | NW    | -             | -     | 1.0                  | 1.5   | 26.0                  | 30.0  |
| 14      | 24.0                 | 25.0  | 29.0                 | 34.0   | 25.0                | 30.0  | 24.0              | 26.0  | 92.0                  | 72.0   | 4.0                       | 4.0   | 4.1                     | 5.3   | NW                      | NW    | 5.2           | 1.6   | 1.2                  | 1.6   | 26.0                  | 32.0  |
| 15      | 24.0                 | 26.0  | 30.0                 | 36.0   | 25.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 84.0   | 4.0                       | 6.0   | 5.8                     | 5.7   | NW                      | NW    | -             | -     | 1.0                  | 1.5   | 26.0                  | 31.0  |
| 16      | 25.0                 | 26.0  | 27.0                 | 33.0   | 25.0                | 30.0  | 24.0              | 25.0  | 92.0                  | 65.0   | 4.0                       | 2.0   | 0.3                     | 3.8   | NW                      | SW    | -             | 10.0  | 1.0                  | 1.5   | 26.0                  | 30.0  |
| 17      | 27.0                 | 26.0  | 30.0                 | 35.0   | 28.0                | 34.0  | 24.0              | 25.0  | 70.0                  | 46.0   | 2.0                       | 4.0   | 4.2                     | 3.2   | SW                      | SE    | 10.0          | 2.8   | 1.0                  | 1.0   | 26.0                  | 33.0  |
| 18      | 24.0                 | 27.0  | 28.0                 | 35.0   | 28.0                | 30.0  | 24.0              | 25.0  | 70.0                  | 65.0   | 2.0                       | 4.0   | 2.3                     | 9.2   | SE                      | SE    | 39.6          | 9.2   | 1.0                  | 1.2   | 26.0                  | 33.0  |
| 19      | 25.0                 | 26.5  | 30.0                 | 32.5   | 28.0                | 27.0  | 24.0              | 25.0  | 70.0                  | 84.0   | 2.0                       | 4.0   | 3.5                     | 3.7   | SE                      | NW    | 14.4          | 3.2   | 1.0                  | 1.2   | 27.0                  | 30.0  |
| 20      | 25.0                 | 26.0  | 27.0                 | 29.0   | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | 4.0                       | 6.0   | 4.1                     | 7.6   | NW                      | NW    | 2.4           | 0.4   | 1.0                  | 1.4   | 27.0                  | 28.0  |
| 21      | 25.0                 | 26.0  | 27.5                 | 32.0   | 26.0                | 30.0  | 24.0              | 26.0  | 77.0                  | 72.0   | 6.0                       | 2.0   | 1.5                     | 6.2   | NW                      | NW    | 4.0           | -     | 1.0                  | 1.5   | 25.5                  | 30.0  |
| 22      | 23.0                 | 27.0  | 30.0                 | 32.0   | 28.0                | 30.0  | 25.0              | 26.0  | 77.0                  | 72.0   | 4.0                       | 2.0   | 3.0                     | 6.7   | NW                      | NW    | -             | -     | 1.0                  | 1.5   | 27.0                  | 30.5  |
| 23      | 25.0                 | 27.0  | 30.0                 | 31.0   | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | 4.0                       | 4.0   | 3.3                     | 7.3   | NW                      | NW    | 3.6           | 0.8   | 1.0                  | 0.8   | 26.0                  | 27.0  |
| 24      | 25.0                 | 28.0  | 28.0                 | 33.0   | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | 4.0                       | 4.0   | 3.2                     | 6.1   | NW                      | NW    | 4.4           | -     | 1.0                  | 1.5   | 25.0                  | 29.0  |
| 25      | 25.0                 | 26.0  | 29.0                 | 34.0   | 25.0                | 30.0  | 24.0              | 24.0  | 92.0                  | 59.0   | 4.0                       | 4.0   | 3.8                     | 7.3   | NW                      | NW    | -             | 1.2   | 1.0                  | 1.7   | 25.0                  | 30.0  |
| 26      | 24.0                 | 25.5  | 30.0                 | 28.0   | 26.0                | 26.0  | 23.0              | 24.0  | 76.0                  | 84.0   | 4.0                       | 4.0   | 7.0                     | 7.9   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 25.0                  | 27.0  |
| 27      | 24.0                 | 26.0  | 26.0                 | 29.0   | 25.0                | 27.0  | 23.0              | 24.0  | 84.0                  | 72.0   | 6.0                       | 6.0   | 4.7                     | 9.2   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 24.5                  | 27.5  |
| 28      | 25.0                 | 26.0  | 27.0                 | 35.0   | 26.0                | 30.0  | 24.0              | 26.0  | 77.0                  | 72.0   | 4.0                       | 4.0   | 2.4                     | 7.6   | NW                      | NW    | 2.0           | -     | 1.0                  | 1.5   | 27.0                  | 32.0  |
| 29      | 25.0                 | 27.0  | 30.0                 | 32.0   | 27.0                | 32.0  | 24.0              | 25.0  | 77.0                  | 55.0   | 2.0                       | 4.0   | 1.7                     | 6.8   | NW                      | NW    | -             | -     | 1.0                  | 1.5   | 25.0                  | 34.0  |
| 30      | 26.0                 | 26.0  | 32.0                 | 38.0   | 28.0                | 28.0  | 25.0              | 24.0  | 77.0                  | 70.0   | -                         | 2.0   | 1.4                     | 3.7   | NW                      | NW    | -             | -     | 1.0                  | 1.5   | 27.0                  | 33.0  |
| 31      | 26.0                 |       | 29.0                 |        | 27.0                |       | 25.0              |       | 84.0                  |        | 2.0                       |       | 1.4                     |       | NW                      |       | -             |       | 1.0                  |       | 27.0                  |       |
| Total   | 768.5                | 815.5 | 895.5                | 1003.5 | 826.0               | 897.0 | 746.0             | 767.0 | 2471.0                | 2188.0 | 120.0                     | 132.0 | 101.6                   | 211.2 |                         |       | 149.6         | 62.8  | 32.2                 | 49.5  | 808.0                 | 931.5 |
| Average | 24.8                 | 26.3  | 28.9                 | 32.4   | 26.6                | 28.9  | 24.1              | 24.7  | 79.7                  | 70.6   | 3.9                       | 4.3   | 3.3                     | 6.8   |                         |       |               |       |                      |       | 26.1                  | 30.0  |
|         | 25.5                 |       | 30.6                 |        | 27.8                |       | 24.4              |       | 75.1                  |        | 4.1                       |       | 5.0                     |       |                         |       | 212.4         |       | 81.7                 |       | 28.1                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

Aug-17

- 0.0 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 37.0   |                     | 30.0  |                   | 24.0  |                       | 59.0   |                           | 2.0   |                         | 5.4   |                         | NW    |               | 1.6   |                      | 1.0   |                       | 32.0  |
| 1       | 26.0                 | 27.0  | 31.0                 | 38.0   | 27.0                | 30.0  | 24.0              | 25.0  | 84.0                  | 59.0   | 2.0                       | 2.0   | 2.4                     | 5.3   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 26.0                  | 33.0  |
| 2       | 27.0                 | 28.0  | 33.0                 | 36.0   | 28.0                | 32.0  | 24.0              | 25.0  | 77.0                  | 49.0   | 2.0                       | 4.0   | 2.8                     | 6.8   | SW                      | NW    | -             | -     | 1.0                  | 1.5   | 27.0                  | 33.0  |
| 3       | 26.0                 | 28.0  | 34.0                 | 37.0   | 28.0                | 30.0  | 25.0              | 25.0  | 77.0                  | 65.0   | 2.0                       | 4.0   | 2.1                     | 5.4   | NE                      | SW    | -             | 1.6   | 1.0                  | 1.2   | 27.0                  | 32.0  |
| 4       | 26.0                 | 28.0  | 29.0                 | 36.0   | 28.0                | 30.0  | 25.0              | 26.0  | 77.0                  | 72.0   | 2.0                       | 4.0   | 2.7                     | 6.7   | SW                      | SW    | 0.4           | -     | 1.4                  | 1.5   | 27.0                  | 32.0  |
| 5       | 26.0                 | 27.0  | 28.0                 | 31.0   | 28.0                | 29.0  | 25.0              | 26.0  | 85.0                  | 71.0   | 2.0                       | 4.0   | 2.1                     | 4.7   | SW                      | SW    | 0.4           | -     | 1.4                  | 1.5   | 25.0                  | 29.0  |
| 6       | 26.0                 | 26.0  | 28.0                 | 34.0   | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | 2.0                       | 4.0   | 2.0                     | 4.8   | SW                      | SW    | -             | 8.8   | 1.0                  | 1.8   | 27.0                  | 29.0  |
| 7       | 24.0                 | 26.0  | 27.0                 | 31.0   | 26.0                | 28.0  | 24.0              | 25.0  | 84.0                  | 77.0   | 2.0                       | 4.0   | 2.7                     | 3.9   | SW                      | SW    | 3.6           | -     | 1.1                  | 1.5   | 26.0                  | 28.0  |
| 8       | 25.0                 | 26.0  | 28.0                 | 30.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 71.0   | 2.0                       | 4.0   | 4.2                     | 3.8   | SW                      | SW    | -             | 12.4  | 1.5                  | 1.4   | 26.5                  | 29.5  |
| 9       | 25.0                 | 25.5  | 28.0                 | 29.0   | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | 4.0                       | 4.0   | 4.1                     | 7.2   | SW                      | SW    | -             | -     | 1.5                  | 1.5   | 26.0                  | 31.0  |
| 10      | 24.0                 | 26.0  | 29.0                 | 30.0   | 25.0                | 29.0  | 24.0              | 25.0  | 92.0                  | 71.0   | 4.0                       | 6.0   | 2.4                     | 4.8   | NW                      | NE    | 2.4           | 6.0   | 1.0                  | 1.0   | 25.0                  | 28.5  |
| 11      | 24.0                 | 26.5  | 28.0                 | 31.0   | 26.0                | 30.0  | 24.0              | 25.0  | 84.0                  | 65.0   | 2.0                       | 4.0   | 3.4                     | 7.0   | NW                      | NW    | 28.4          | -     | 1.4                  | 1.5   | 25.0                  | 32.0  |
| 12      | 25.0                 | 27.0  | 30.0                 | 33.0   | 28.0                | 29.0  | 24.0              | 24.0  | 70.0                  | 64.0   | 4.0                       | 4.0   | 1.9                     | 8.9   | SW                      | NW    | -             | -     | 1.5                  | 1.5   | 27.0                  | 31.0  |
| 13      | 26.0                 | 28.0  | 29.0                 | 33.0   | 27.0                | 30.0  | 24.0              | 25.0  | 77.0                  | 65.0   | 2.0                       | 2.0   | 4.0                     | 6.5   | SW                      | NW    | -             | -     | 1.5                  | 1.5   | 26.5                  | 33.0  |
| 14      | 26.0                 | 27.0  | 31.0                 | 36.0   | 28.0                | 30.0  | 24.0              | 25.0  | 70.0                  | 65.0   | 2.0                       | 4.0   | 2.6                     | 4.4   | SW                      | NW    | -             | -     | 1.5                  | 1.5   | 27.0                  | 34.0  |
| 15      | 26.0                 | 27.0  | 32.0                 | 31.5   | 27.0                | 32.0  | 25.0              | 26.0  | 84.0                  | 61.0   | 2.0                       | 6.0   | 2.8                     | 5.7   | SW                      | NW    | -             | -     | 1.5                  | 1.5   | 26.5                  | 34.0  |
| 16      | 26.0                 | 28.0  | 33.0                 | 37.0   | 28.0                | 32.0  | 25.0              | 26.0  | 77.0                  | 61.0   | 2.0                       | 4.0   | 1.9                     | 6.6   | NW                      | SW    | -             | -     | 1.5                  | 1.5   | 28.0                  | 34.0  |
| 17      | 25.0                 | 27.0  | 33.0                 | 35.0   | 26.0                | 28.0  | 24.0              | 25.0  | 77.0                  | 84.0   | 2.0                       | 4.0   | 1.3                     | 3.8   | SW                      | SE    | -             | 6.8   | 1.0                  | 1.8   | 27.5                  | 28.0  |
| 18      | 24.0                 | 26.5  | 28.0                 | 36.0   | 27.0                | 30.0  | 24.0              | 26.0  | 77.0                  | 72.0   | 2.0                       | 2.0   | 2.6                     | 3.6   | NW                      | NE    | -             | -     | 1.0                  | 1.5   | 26.0                  | 32.0  |
| 19      | 25.5                 | 26.0  | 31.0                 | 35.0   | 26.0                | 30.0  | 24.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | 4.0   | 5.4                     | 3.9   | NE                      | NE    | 10.0          | -     | 1.0                  | 1.5   | 26.0                  | 31.5  |
| 20      | 25.5                 | 26.0  | 29.5                 | 33.0   | 26.0                | 30.0  | 24.0              | 26.0  | 84.0                  | 72.0   | 4.0                       | 4.0   | 1.3                     | 3.1   | NE                      | NE    | 0.8           | 5.6   | 1.5                  | 1.6   | 26.5                  | 31.5  |
| 21      | 25.0                 | 27.0  | 30.0                 | 34.0   | 27.0                | 30.0  | 24.0              | 25.0  | 77.0                  | 65.0   | 4.0                       | 4.0   | 0.4                     | 3.6   | NE                      | SW    | -             | 1.2   | 1.5                  | 1.2   | 27.0                  | 32.0  |
| 22      | 25.0                 | 25.5  | 29.0                 | 36.0   | 26.0                | 30.0  | 24.0              | 25.0  | 84.0                  | 65.0   | 2.0                       | 4.0   | 0.9                     | 4.5   | SW                      | SW    | -             | -     | 1.5                  | 1.5   | 26.0                  | 33.0  |
| 23      | 26.0                 | 28.0  | 31.0                 | 38.0   | 28.0                | 32.0  | 25.0              | 27.0  | 77.0                  | 67.0   | 2.0                       | 2.0   | 2.7                     | 4.0   | NW                      | NW    | -             | -     | 1.5                  | 2.0   | 26.0                  | 36.0  |
| 24      | 24.0                 | 26.0  | 33.0                 | 36.0   | 26.0                | 30.0  | 24.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | 4.0   | 1.6                     | 4.3   | NW                      | NE    | 16.0          | -     | 1.0                  | 2.0   | 26.0                  | 34.0  |
| 25      | 25.0                 | 26.0  | 30.0                 | 35.0   | 25.0                | 30.0  | 24.0              | 26.0  | 92.0                  | 72.0   | 2.0                       | 2.0   | 1.0                     | 2.5   | SW                      | NE    | 6.4           | -     | 1.4                  | 2.0   | 26.0                  | 31.5  |
| 26      | 25.0                 | 27.0  | 29.0                 | 36.0   | 28.0                | 30.0  | 25.0              | 26.0  | 77.0                  | 72.0   | 2.0                       | 2.0   | 1.4                     | 2.9   | NW                      | SW    | -             | 1.6   | 1.5                  | 1.6   | 27.5                  | 34.5  |
| 27      | 26.0                 | 28.0  | 30.0                 | 37.0   | 28.0                | 32.0  | 25.0              | 27.0  | 77.0                  | 67.0   | 2.0                       | 2.0   | 2.0                     | 1.8   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 27.0                  | 33.0  |
| 28      | 25.0                 | 26.0  | 32.0                 | 35.0   | 26.0                | 28.0  | 24.0              | 25.0  | 84.0                  | 77.0   | 2.0                       | 21.0  | 2.9                     | 3.7   | SE                      | SE    | 17.6          | 12.0  | 1.6                  | 1.0   | 26.0                  | 30.0  |
| 29      | 24.0                 | 26.5  | 28.0                 | 35.0   | 25.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 77.0   | 4.0                       | 2.0   | 1.2                     | 5.5   | NE                      | SE    | 12.8          | -     | 1.0                  | 1.5   | 25.0                  | 32.5  |
| 30      | 24.5                 | 26.0  | 29.0                 | 34.0   | 26.0                | 30.0  | 24.0              | 25.0  | 84.0                  | 65.0   | 2.0                       | 4.0   | 0.8                     | 4.4   | SW                      | SW    | 15.2          | -     | 1.2                  | 2.0   | 27.0                  | 32.0  |
| 31      | 26.0                 |       | 30.0                 |        | 26.0                |       | 25.0              |       | 92.0                  |        | 2.0                       |       | 0.8                     |       | SW                      |       | -             |       | 1.0                  |       | 27.0                  |       |
| Total   | 783.5                | 829.5 | 930.5                | 1065.5 | 830.0               | 923.0 | 756.0             | 788.0 | 2540.0                | 2128.0 | 74.0                      | 127.0 | 70.4                    | 149.5 |                         |       | 114.0         | 57.6  | 40.0                 | 47.6  | 819.0                 | 986.5 |
| Average | 25.3                 | 26.8  | 30.0                 | 34.4   | 26.8                | 29.8  | 24.4              | 25.4  | 81.9                  | 68.6   | 2.4                       | 4.1   | 2.3                     | 4.8   |                         |       |               |       |                      |       | 26.4                  | 31.8  |
|         | 26.0                 |       | 32.2                 |        | 28.3                |       | 24.9              |       | 75.3                  |        | 3.2                       |       | 3.5                     |       |                         |       | 171.6         |       | 87.6                 |       | 29.1                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

Sep-17

- 0.0 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 25.0  |                      | 30.0   |                     | 29.0  |                   | 26.0  |                       | 78.0   |                           | -     |                         | 3.0   |                         | NW    |               | 4.8   |                      | 1.8   |                       | 28.5  |
| 1       | 25.0                 | 28.0  | 29.0                 | 37.0   | 28.0                | 30.0  | 25.0              | 26.0  | 85.0                  | 65.0   | 2.0                       | 2.0   | 2.9                     | 4.5   | NW                      | SW    | -             | -     | 1.5                  | 2.0   | 26.5                  | 33.0  |
| 2       | 27.0                 | 28.0  | 31.0                 | 38.0   | 27.0                | 32.0  | 24.0              | 25.0  | 77.0                  | 55.0   | 2.0                       | 2.0   | 0.9                     | 5.3   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 27.0                  | 33.0  |
| 3       | 26.0                 | 28.0  | 32.0                 | 38.0   | 28.0                | 32.0  | 25.0              | 25.0  | 77.0                  | 55.0   | 2.0                       | 2.0   | 1.6                     | 4.7   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 26.0                  | 34.5  |
| 4       | 26.5                 | 27.0  | 32.0                 | 37.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 4.0                       | 2.0   | 1.1                     | 2.4   | SW                      | SE    | -             | -     | 1.5                  | 2.0   | 26.0                  | 33.0  |
| 5       | 26.0                 | 28.0  | 31.0                 | 40.0   | 28.0                | 32.0  | 26.0              | 26.0  | 85.0                  | 61.0   | 2.0                       | 2.0   | 2.0                     | 4.3   | NW                      | NW    | -             | -     | 1.5                  | 2.0   | 26.5                  | 33.5  |
| 6       | 25.0                 | 27.0  | 32.0                 | 39.0   | 27.0                | 30.0  | 26.0              | 26.0  | 92.0                  | 72.0   | 2.0                       | 2.0   | 0.9                     | 3.3   | SW                      | NE    | -             | -     | 1.5                  | 2.0   | 27.5                  | 33.0  |
| 7       | 27.0                 | 28.0  | 30.0                 | 39.0   | 28.0                | 30.0  | 25.0              | 26.0  | 85.0                  | 65.0   | 2.0                       | 2.0   | 0.9                     | 2.8   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 28.0                  | 34.0  |
| 8       | 26.0                 | 28.0  | 30.0                 | 37.0   | 28.0                | 30.0  | 26.0              | 26.0  | 85.0                  | 72.0   | 2.0                       | 2.0   | 0.6                     | 3.1   | NE                      | NE    | -             | 9.2   | 1.5                  | 1.7   | 28.0                  | 30.0  |
| 9       | 26.0                 | 27.0  | 28.0                 | 36.0   | 28.0                | 28.0  | 24.0              | 26.0  | 85.0                  | 70.0   | 2.0                       | 2.0   | 1.1                     | 4.0   | SW                      | SE    | -             | 2.4   | 1.0                  | 1.9   | 28.0                  | 30.5  |
| 10      | 25.0                 | 26.0  | 27.0                 | 38.0   | 26.0                | 32.0  | 25.0              | 27.0  | 92.0                  | 67.0   | 2.0                       | 2.0   | 0.8                     | 2.7   | SW                      | NE    | 2.0           | -     | 0.5                  | 1.5   | 27.0                  | 33.5  |
| 11      | 26.0                 | 27.0  | 32.0                 | 32.0   | 25.0                | 28.0  | 24.0              | 26.0  | 85.0                  | 92.0   | 2.0                       | 2.0   | 0.5                     | 3.9   | NE                      | NW    | -             | 25.6  | 0.8                  | 1.6   | 28.0                  | 28.5  |
| 12      | 24.5                 | 25.0  | 26.0                 | 32.0   | 26.0                | 28.0  | 24.0              | 25.0  | 84.0                  | 77.0   | -                         | 2.0   | 0.9                     | 3.8   | SE                      | NW    | 1.2           | -     | 0.7                  | 1.5   | 26.0                  | 31.0  |
| 13      | 24.0                 | 25.0  | 27.0                 | 33.0   | 25.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 77.0   | 2.0                       | 2.0   | 1.0                     | 3.1   | SW                      | SW    | -             | 2.8   | 1.0                  | 0.8   | 26.5                  | 31.0  |
| 14      | 24.0                 | 26.0  | 27.0                 | 31.0   | 27.0                | 30.0  | 24.0              | 24.0  | 77.0                  | 59.0   | 2.0                       | 2.0   | 0.9                     | 5.1   | SW                      | SW    | -             | -     | 1.5                  | 1.0   | 26.5                  | 31.0  |
| 15      | 25.0                 | 27.0  | 29.0                 | 33.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 0.5                     | 2.0   | NW                      | NW    | -             | 0.8   | 1.5                  | 0.8   | 26.0                  | 32.0  |
| 16      | 24.0                 | 26.5  | 29.0                 | 34.0   | 28.0                | 30.0  | 25.0              | 27.0  | 77.0                  | 78.0   | 2.0                       | 2.0   | 1.1                     | 4.1   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 26.0                  | 32.5  |
| 17      | 25.0                 | 26.0  | 29.0                 | 34.0   | 27.0                | 29.0  | 26.0              | 26.0  | 78.0                  | 92.0   | 2.0                       | 4.0   | 1.2                     | 3.5   | NW                      | NE    | -             | 4.8   | 1.0                  | 0.8   | 26.0                  | 30.0  |
| 18      | 23.0                 | 27.0  | 25.0                 | 31.0   | 28.0                | 30.0  | 25.0              | 27.0  | 77.0                  | 78.0   | 4.0                       | -     | 1.8                     | 5.0   | SW                      | NE    | -             | -     | 1.0                  | 1.0   | 25.0                  | 30.0  |
| 19      | 24.0                 | 25.0  | 30.0                 | 32.0   | 26.0                | 26.0  | 24.0              | 24.0  | 84.0                  | 84.0   | 2.0                       | 2.0   | 2.0                     | 3.3   | SE                      | SE    | 1.2           | 1.2   | 0.7                  | 0.7   | 25.5                  | 29.0  |
| 20      | 24.0                 | 24.0  | 27.0                 | 29.0   | 25.0                | 26.0  | 24.0              | 24.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 3.6                     | 5.2   | SW                      | SW    | 20.0          | 2.0   | 1.0                  | 1.0   | 25.0                  | 27.0  |
| 21      | 24.0                 | 26.0  | 26.0                 | 30.0   | 26.0                | 26.0  | 24.0              | 25.0  | 84.0                  | 92.0   | 4.0                       | 2.0   | 4.6                     | 0.8   | SE                      | SW    | 0.4           | 0.4   | 0.6                  | 1.5   | 25.5                  | 29.0  |
| 22      | 24.0                 | 26.0  | 27.0                 | 30.0   | 26.0                | 30.0  | 24.0              | 25.0  | 92.0                  | 59.0   | 2.0                       | 2.0   | 0.5                     | 6.9   | SE                      | NW    | 2.8           | -     | 0.8                  | 1.5   | 25.0                  | 29.0  |
| 23      | 23.0                 | 26.0  | 28.0                 | 36.0   | 26.0                | 30.0  | 25.0              | 26.0  | 92.0                  | 72.0   | 2.0                       | 2.0   | 1.2                     | 3.1   | NW                      | SE    | -             | -     | 1.0                  | 2.0   | 26.0                  | 33.0  |
| 24      | 23.5                 | 28.0  | 29.0                 | 34.0   | 28.0                | 30.0  | 25.0              | 26.0  | 77.0                  | 65.0   | 2.0                       | 2.0   | 2.3                     | 3.6   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 25.0                  | 35.0  |
| 25      | 23.0                 | 28.0  | 31.0                 | 35.0   | 28.0                | 32.0  | 26.0              | 26.0  | 77.0                  | 61.0   | 2.0                       | 4.0   | 2.0                     | 4.9   | NW                      | NW    | 0.8           | -     | 0.8                  | 2.0   | 25.0                  | 34.5  |
| 26      | 24.0                 | 28.0  | 33.0                 | 34.0   | 27.0                | 32.0  | 24.0              | 27.0  | 77.0                  | 67.0   | 2.0                       | -     | 1.9                     | 4.6   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 25.0                  | 34.5  |
| 27      | 26.0                 | 27.0  | 31.0                 | 35.0   | 27.0                | 32.0  | 24.0              | 25.0  | 77.0                  | 55.0   | 2.0                       | -     | 0.8                     | 4.2   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 26.0                  | 33.0  |
| 28      | 26.0                 | 27.0  | 32.0                 | 33.0   | 27.0                | 28.0  | 24.0              | 26.0  | 85.0                  | 77.0   | 2.0                       | 2.0   | 0.8                     | 3.0   | SE                      | NW    | -             | -     | 1.0                  | 1.5   | 27.5                  | 30.0  |
| 29      | 24.0                 | 27.0  | 28.0                 | 32.0   | 27.0                | 30.0  | 24.0              | 26.0  | 77.0                  | 72.0   | 2.0                       | 2.0   | 1.2                     | 1.9   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 25.0                  | 31.0  |
| 30      | 24.0                 |       | 30.0                 |        | 26.0                |       | 24.0              |       | 84.0                  |        | 2.0                       |       | 0.9                     |       | NW                      |       | -             |       | 1.0                  |       | 26.0                  |       |
| Total   | 744.5                | 801.5 | 878.0                | 1029.0 | 806.0               | 890.0 | 740.0             | 772.0 | 2507.0                | 2151.0 | 64.0                      | 56.0  | 42.4                    | 112.1 |                         |       | 28.4          | 54.0  | 33.4                 | 47.1  | 787.0                 | 947.5 |
| Average | 24.8                 | 26.7  | 29.3                 | 34.3   | 26.9                | 29.7  | 24.7              | 25.7  | 83.6                  | 71.7   | 2.1                       | 1.9   | 1.4                     | 3.7   |                         |       |               |       |                      |       | 26.2                  | 31.6  |
|         | 25.8                 |       | 31.8                 |        | 28.3                |       | 25.2              |       | 77.6                  |        | 2.0                       |       | 2.6                     |       |                         |       | 82.4          |       | 80.5                 |       | 28.9                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

Oct-17

- 0.0 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 27.0  |                      | 33.0   |                     | 30.0  |                   | 26.0  |                       | 72.0   |                           | 2.0   |                         | 2.2   |                         | SE    |               | -     |                      | 1.5   |                       | 32.5  |
| 1       | 27.0                 | 27.0  | 31.0                 | 32.0   | 26.0                | 29.0  | 23.0              | 25.0  | 76.0                  | 71.0   | 2.0                       | 2.0   | 1.9                     | 2.0   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 27.0                  | 30.0  |
| 2       | 24.0                 | 26.0  | 28.0                 | 34.0   | 26.0                | 30.0  | 24.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | 2.0   | 0.6                     | 3.6   | SW                      | SE    | -             | -     | 1.0                  | 1.0   | 26.0                  | 33.0  |
| 3       | 24.0                 | 26.0  | 31.0                 | 31.0   | 27.0                | 32.0  | 21.0              | 27.0  | 56.0                  | 67.0   | 2.0                       | 2.0   | 1.3                     | 3.0   | NE                      | SE    | -             | -     | 1.0                  | 1.5   | 27.0                  | 33.5  |
| 4       | 23.0                 | 26.0  | 32.0                 | 34.0   | 27.0                | 32.0  | 24.0              | 27.0  | 77.0                  | 67.0   | 2.0                       | 2.0   | 1.3                     | 4.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 25.0                  | 32.0  |
| 5       | 24.0                 | 28.0  | 31.0                 | 35.0   | 27.0                | 30.0  | 24.0              | 26.0  | 77.0                  | 72.0   | 4.0                       | 2.0   | 2.3                     | 3.8   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 25.0                  | 32.5  |
| 6       | 24.0                 | 25.0  | 30.0                 | 34.0   | 26.0                | 28.0  | 24.0              | 26.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 1.6                     | 4.1   | NE                      | NW    | -             | 0.8   | 1.5                  | 0.8   | 26.0                  | 27.0  |
| 7       | 23.0                 | 27.0  | 27.0                 | 32.0   | 27.0                | 28.0  | 24.0              | 26.0  | 77.0                  | 85.0   | 4.0                       | 2.0   | 0.8                     | 4.3   | NE                      | SE    | 1.6           | 0.8   | 0.6                  | 0.8   | 26.0                  | 30.0  |
| 8       | 25.0                 | 27.0  | 28.0                 | 30.0   | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | 2.0                       | 2.0   | 0.7                     | 3.0   | NE                      | SE    | 1.6           | -     | 0.6                  | 1.5   | 27.0                  | 28.0  |
| 9       | 23.0                 | 28.0  | 27.0                 | 34.0   | 27.0                | 28.0  | 24.0              | 25.0  | 77.0                  | 77.0   | 2.0                       | 4.0   | 1.8                     | 2.7   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 30.0  |
| 10      | 23.0                 | 27.0  | 27.0                 | 33.0   | 27.0                | 32.0  | 26.0              | 27.0  | 92.0                  | 67.0   | 2.0                       | 2.0   | 1.4                     | 3.7   | NW                      | NE    | 0.4           | -     | 1.4                  | 2.0   | 26.0                  | 32.0  |
| 11      | 24.0                 | 29.0  | 31.0                 | 34.0   | 28.0                | 30.0  | 25.0              | 26.0  | 85.0                  | 65.0   | 4.0                       | 2.0   | 0.6                     | 4.4   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 25.0                  | 30.0  |
| 12      | 25.0                 | 28.0  | 30.0                 | 35.0   | 28.0                | 32.0  | 25.0              | 26.0  | 77.0                  | 61.0   | 2.0                       | 2.0   | 0.5                     | 4.8   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 26.0                  | 32.0  |
| 13      | 25.0                 | 29.0  | 32.0                 | 35.0   | 29.0                | 32.0  | 26.0              | 26.0  | 78.0                  | 61.0   | 2.0                       | 2.0   | 0.7                     | 4.6   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 32.0  |
| 14      | 26.0                 | 28.0  | 32.0                 | 35.0   | 28.0                | 32.0  | 25.0              | 27.0  | 77.0                  | 67.0   | 2.0                       | 2.0   | 0.8                     | 4.1   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 27.0                  | 33.0  |
| 15      | 24.0                 | 28.0  | 31.0                 | 36.0   | 26.0                | 34.0  | 23.0              | 26.0  | 76.0                  | 51.0   | 2.0                       | 2.0   | 1.0                     | 3.1   | NW                      | SE    | -             | -     | 1.0                  | 2.0   | 26.0                  | 33.0  |
| 16      | 21.0                 | 26.0  | 33.0                 | 36.0   | 24.0                | 32.0  | 22.0              | 24.0  | 83.0                  | 49.0   | 2.0                       | 2.0   | 0.5                     | 3.6   | NW                      | SE    | -             | -     | 1.0                  | 2.0   | 24.0                  | 32.0  |
| 17      | 20.0                 | 24.0  | 32.0                 | 37.0   | 24.0                | 30.0  | 20.0              | 20.0  | 68.0                  | 36.0   | 2.0                       | -     | 0.8                     | 2.1   | NW                      | NE    | -             | -     | 1.0                  | 1.8   | 23.0                  | 32.0  |
| 18      | 18.0                 | 24.0  | 30.0                 | 34.0   | 20.0                | 30.0  | 18.0              | 22.0  | 81.0                  | 47.0   | 2.0                       | -     | 0.6                     | 4.6   | NW                      | NE    | -             | -     | 1.0                  | 1.7   | 26.0                  | 30.5  |
| 19      | 21.0                 | 26.0  | 29.0                 | 32.0   | 20.0                | 30.0  | 18.0              | 25.0  | 81.0                  | 65.0   | 2.0                       | 2.0   | 0.7                     | 5.6   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 24.0                  | 31.0  |
| 20      | 23.0                 | 26.0  | 27.0                 | 33.0   | 27.0                | 32.0  | 23.0              | 25.0  | 70.0                  | 55.0   | 2.0                       | 2.0   | 0.5                     | 6.5   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 25.0                  | 32.5  |
| 21      | 24.0                 | 27.0  | 30.0                 | 35.0   | 28.0                | 32.0  | 24.0              | 25.0  | 70.0                  | 55.0   | 2.0                       | -     | 0.8                     | 4.6   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 24.0                  | 30.0  |
| 22      | 23.0                 | 26.0  | 33.0                 | 34.0   | 27.0                | 32.0  | 24.0              | 24.0  | 77.0                  | 49.0   | 2.0                       | 2.0   | 0.8                     | 2.5   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 26.0                  | 32.0  |
| 23      | 23.0                 | 27.0  | 31.0                 | 34.0   | 26.0                | 32.0  | 23.0              | 27.0  | 76.0                  | 67.0   | 2.0                       | 2.0   | 0.8                     | 3.9   | SW                      | NW    | -             | -     | 1.0                  | 1.8   | 25.0                  | 32.0  |
| 24      | 20.0                 | 26.0  | 33.0                 | 35.0   | 24.0                | 30.0  | 20.0              | 20.0  | 68.0                  | 36.0   | 2.0                       | 2.0   | 0.5                     | 1.3   | SW                      | SE    | -             | -     | 0.8                  | 1.8   | 23.0                  | 30.0  |
| 25      | 18.0                 | 24.0  | 30.0                 | 35.0   | 20.0                | 30.0  | 18.0              | 22.0  | 81.0                  | 47.0   | 2.0                       | 2.0   | 1.5                     | 2.4   | NW                      | SE    | -             | -     | 0.8                  | 1.8   | 21.0                  | 29.0  |
| 26      | 19.0                 | 25.0  | 29.0                 | 34.0   | 24.0                | 29.0  | 20.0              | 20.0  | 68.0                  | 40.0   | 2.0                       | 2.0   | 0.7                     | 3.2   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 24.0                  | 30.0  |
| 27      | 21.5                 | 24.0  | 29.0                 | 32.0   | 23.0                | 29.0  | 19.0              | 23.0  | 67.0                  | 58.0   | 2.0                       | -     | 0.3                     | 2.7   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 23.0                  | 29.0  |
| 28      | 21.0                 | 23.0  | 29.0                 | 33.0   | 23.0                | 29.0  | 20.0              | 22.0  | 75.0                  | 52.0   | 2.0                       | -     | 0.8                     | 2.0   | NE                      | SW    | -             | -     | 0.8                  | 2.0   | 23.0                  | 29.0  |
| 29      | 18.0                 | 21.0  | 28.0                 | 33.0   | 20.0                | 30.0  | 18.0              | 22.0  | 81.0                  | 47.0   | 2.0                       | -     | 0.6                     | 2.1   | NW                      | SE    | -             | -     | 0.8                  | 2.0   | 21.0                  | 29.0  |
| 30      | 18.0                 | 23.0  | 28.0                 | 34.0   | 22.0                | 30.0  | 19.0              | 21.0  | 74.0                  | 42.0   | 2.0                       | 2.0   | 0.2                     | 3.4   | NW                      | SE    | -             | -     | 0.8                  | 2.0   | 21.0                  | 29.0  |
| 31      | 17.0                 |       | 30.0                 |        | 20.0                |       | 17.0              |       | 73.0                  |        | 2.0                       |       | 0.6                     |       | NW                      |       | -             |       | 0.8                  |       | 21.0                  |       |
| Total   | 689.5                | 808.0 | 929.0                | 1048.0 | 777.0               | 944.0 | 685.0             | 760.0 | 2371.0                | 1869.0 | 68.0                      | 52.0  | 28.0                    | 107.9 |                         |       | 3.6           | 1.6   | 30.4                 | 55.0  | 766.0                 | 957.5 |
| Average | 22.2                 | 26.1  | 30.0                 | 33.8   | 25.1                | 30.5  | 22.1              | 24.5  | 76.5                  | 60.3   | 2.2                       | 1.7   | 0.9                     | 3.5   |                         |       |               |       |                      |       | 24.7                  | 30.9  |
|         | 24.2                 |       | 31.9                 |        | 27.8                |       | 23.3              |       | 68.4                  |        | 1.9                       |       | 2.2                     |       |                         |       | 5.2           |       | 85.4                 |       | 27.8                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|         | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 20.0  |                      | 32.0  |                     | 28.0  |                   | 21.0  |                       | 51.0   |                           | -     |                         | 1.6   |                         | SE    |               | -     |                      | 2.0   |                       | 29.0  |
| 1       | 17.5                 | 21.0  | 28.0                 | 29.0  | 22.0                | 28.0  | 18.0              | 21.0  | 66.0                  | 51.0   | 2.0                       | -     | 0.9                     | 3.4   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 21.0                  | 29.0  |
| 2       | 22.0                 | 22.0  | 27.0                 | 28.0  | 21.0                | 27.0  | 19.0              | 20.0  | 82.0                  | 50.0   | 2.0                       | -     | 0.9                     | 4.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 21.0                  | 27.0  |
| 3       | 15.0                 | 20.0  | 27.0                 | 31.0  | 18.0                | 20.0  | 15.0              | 18.0  | 66.0                  | 81.0   | 2.0                       | -     | -                       | 3.1   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.5                  | 25.0  |
| 4       | 16.0                 | 22.0  | 26.0                 | 31.0  | 17.0                | 21.0  | 13.0              | 15.0  | 61.0                  | 49.0   | 2.0                       | -     | 0.4                     | 2.9   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 20.0                  | 28.0  |
| 5       | 15.0                 | 20.0  | 26.0                 | 32.0  | 19.0                | 22.0  | 13.0              | 16.0  | 46.0                  | 50.0   | 2.0                       | -     | -                       | 1.7   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 20.0                  | 22.0  |
| 6       | 17.0                 | 23.0  | 27.0                 | 31.5  | 17.0                | 28.0  | 13.0              | 21.0  | 61.0                  | 51.0   | -                         | -     | 0.1                     | 2.1   | NE                      | NW    | -             | -     | 1.0                  | 1.8   | 20.0                  | 28.0  |
| 7       | 17.0                 | 20.5  | 27.0                 | 32.5  | 20.0                | 28.0  | 17.0              | 19.0  | 73.0                  | 39.0   | -                         | -     | -                       | 1.3   | NE                      | NE    | -             | -     | 0.8                  | 1.5   | 20.0                  | 27.5  |
| 8       | 18.0                 | 19.5  | 28.0                 | 33.0  | 20.0                | 27.0  | 17.0              | 19.0  | 73.0                  | 44.0   | -                         | -     | 0.3                     | 1.8   | SW                      | NE    | -             | -     | 0.7                  | 1.5   | 20.0                  | 28.0  |
| 9       | 17.5                 | 19.0  | 27.5                 | 31.0  | 20.0                | 28.0  | 17.0              | 19.0  | 73.0                  | 39.0   | -                         | -     | 0.5                     | 2.2   | NW                      | NW    | -             | -     | 0.7                  | 1.5   | 20.0                  | 28.0  |
| 10      | 15.0                 | 17.5  | 27.5                 | 30.0  | 17.0                | 27.0  | 14.0              | 17.0  | 70.0                  | 32.0   | -                         | -     | 0.5                     | 3.5   | NW                      | SE    | -             | -     | 0.5                  | 1.5   | 18.5                  | 27.0  |
| 11      | 13.5                 | 16.0  | 26.5                 | 33.0  | 16.0                | 28.0  | 13.0              | 18.0  | 69.0                  | 33.0   | -                         | 2.0   | 0.9                     | 3.2   | NW                      | NE    | -             | -     | 0.5                  | 1.5   | 17.0                  | 27.0  |
| 12      | 14.0                 | 15.5  | 28.0                 | 32.5  | 15.0                | 27.0  | 12.0              | 19.0  | 68.0                  | 44.0   | 2.0                       | -     | 0.1                     | 3.3   | NW                      | NE    | -             | -     | 0.5                  | 1.5   | 17.0                  | 27.0  |
| 13      | 15.0                 | 17.0  | 27.0                 | 31.0  | 16.0                | 27.0  | 14.0              | 18.0  | 79.0                  | 38.0   | 2.0                       | -     | 1.0                     | 3.0   | NW                      | NE    | -             | -     | 0.5                  | 1.5   | 17.0                  | 26.0  |
| 14      | 15.0                 | 22.0  | 27.0                 | 31.0  | 18.0                | 28.0  | 15.0              | 20.0  | 71.0                  | 45.0   | 4.0                       | -     | 0.9                     | 3.6   | NE                      | NE    | -             | -     | 0.7                  | 1.5   | 19.0                  | 27.5  |
| 15      | 19.0                 | 21.5  | 27.8                 | 28.0  | 23.0                | 23.0  | 19.0              | 20.0  | 67.0                  | 75.0   | 2.0                       | 2.0   | 2.6                     | 4.2   | NE                      | NE    | -             | -     | 0.6                  | 1.0   | 21.5                  | 25.0  |
| 16      | 19.0                 | 21.0  | 23.0                 | 28.0  | 21.0                | 27.0  | 19.0              | 22.0  | 82.0                  | 63.0   | 2.0                       | 2.0   | 1.0                     | 3.7   | NE                      | SE    | 1.6           | -     | 0.5                  | 1.0   | 21.0                  | 26.0  |
| 17      | 21.0                 | 24.0  | 26.0                 | 30.0  | 25.0                | 28.0  | 21.0              | 22.0  | 68.0                  | 57.0   | 2.0                       | 2.0   | 0.6                     | 3.7   | NE                      | SE    | -             | -     | 0.5                  | 1.5   | 22.0                  | 27.0  |
| 18      | 19.0                 | 22.0  | 28.0                 | 31.0  | 22.0                | 29.0  | 20.0              | 22.0  | 82.0                  | 52.0   | -                         | -     | 0.4                     | 2.5   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 22.0                  | 26.5  |
| 19      | 18.5                 | 21.0  | 28.5                 | 31.5  | 22.0                | 29.0  | 20.0              | 23.0  | 82.0                  | 58.0   | 2.0                       | -     | 0.7                     | 1.9   | NE                      | NE    | -             | -     | 0.7                  | 1.0   | 22.5                  | 28.0  |
| 20      | 18.5                 | 23.0  | 29.5                 | 32.5  | 24.0                | 29.0  | 20.0              | 21.0  | 68.0                  | 49.0   | 2.0                       | -     | 0.8                     | 3.0   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 22.0                  | 28.0  |
| 21      | 17.0                 | 21.0  | 29.0                 | 32.0  | 24.0                | 29.0  | 20.0              | 25.0  | 68.0                  | 49.0   | 2.0                       | -     | 0.2                     | 2.6   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 20.5                  | 26.0  |
| 22      | 16.5                 | 20.0  | 28.5                 | 29.0  | 21.0                | 26.0  | 17.0              | 20.0  | 65.0                  | 55.0   | -                         | -     | 0.4                     | 1.8   | NE                      | SE    | -             | -     | 0.5                  | 0.8   | 20.0                  | 24.0  |
| 23      | 15.0                 | 20.0  | 26.5                 | 31.0  | 21.0                | 28.0  | 16.0              | 20.0  | 57.0                  | 45.0   | 2.0                       | -     | 0.9                     | 2.5   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 19.0                  | 26.0  |
| 24      | 13.5                 | 18.5  | 27.5                 | 29.5  | 19.0                | 26.0  | 14.0              | 18.0  | 54.0                  | 42.0   | 2.0                       | -     | 0.3                     | 2.5   | NW                      | SE    | -             | -     | 0.5                  | 0.8   | 17.5                  | 25.0  |
| 25      | 10.5                 | 17.0  | 26.5                 | 30.0  | 17.0                | 26.0  | 13.0              | 18.0  | 61.0                  | 42.0   | 2.0                       | -     | 0.1                     | 2.6   | NW                      | SE    | -             | -     | 0.5                  | 0.8   | 16.0                  | 24.0  |
| 26      | 10.2                 | 10.5  | 26.0                 | 31.0  | 19.0                | 27.0  | 14.0              | 18.0  | 54.0                  | 38.0   | 2.0                       | -     | -                       | 1.6   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 15.0                  | 24.0  |
| 27      | 13.5                 | 10.0  | 27.5                 | 32.0  | 14.0                | 26.0  | 11.0              | 17.0  | 67.0                  | 38.0   | -                         | -     | -                       | 1.8   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 15.5                  | 24.5  |
| 28      | 14.0                 | 11.5  | 26.5                 | 31.0  | 15.0                | 26.0  | 12.0              | 17.0  | 68.0                  | 36.0   | 2.0                       | -     | 0.2                     | 1.7   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 15.0                  | 24.5  |
| 29      | 16.5                 | 11.2  | 27.0                 | 30.0  | 17.0                | 25.0  | 13.0              | 16.0  | 61.0                  | 42.0   | -                         | -     | 0.4                     | 2.4   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 15.5                  | 24.0  |
| 30      | 11.0                 |       | 26.5                 |       | 15.0                |       | 12.0              |       | 68.0                  |        | 2.0                       |       | 0.2                     |       | NW                      |       | -             |       | 0.5                  |       | 15.5                  |       |
| Total   | 480.2                | 567.2 | 813.8                | 925.0 | 575.0               | 798.0 | 471.0             | 580.0 | 2030.0                | 1438.0 | 42.0                      | 8.0   | 15.3                    | 79.5  |                         |       | 1.6           | -     | 19.2                 | 40.7  | 570.5                 | 788.5 |
| Average | 16.0                 | 18.9  | 27.1                 | 30.8  | 19.2                | 26.6  | 15.7              | 19.3  | 67.7                  | 47.9   | 1.4                       | 0.3   | 0.5                     | 2.6   |                         |       |               |       |                      |       | 19.0                  | 26.3  |
|         | 17.5                 |       | 29.0                 |       | 22.9                |       | 17.5              |       | 57.8                  |        | 0.8                       |       | 1.6                     |       |                         |       | 1.6           |       | 59.9                 |       | 22.7                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 15.5  |                      | 30.0  |                     | 25.0  |                   | 16.0  |                       | 35.0   |                           | -     |                         | 2.9   |                         | SE    |               | -     |                      | 1.0   |                       | 24.0  |
| 1       | 11.0                 | 17.0  | 24.0                 | 26.0  | 18.0                | 24.0  | 15.0              | 15.0  | 71.0                  | 33.0   | 2.0                       | -     | 1.0                     | 2.8   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 28.0  |
| 2       | 11.0                 | 16.0  | 25.0                 | 26.0  | 19.0                | 23.0  | 14.0              | 17.0  | 81.0                  | 31.0   | 2.0                       | -     | 0.9                     | 1.6   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 24.0                  | 23.0  |
| 3       | 10.5                 | 15.0  | 24.0                 | 25.0  | 18.0                | 22.0  | 15.0              | 15.0  | 71.0                  | 83.0   | 2.0                       | -     | 0.1                     | 2.3   | NW                      | NW    | -             | -     | 0.5                  | 1.0   | 23.0                  | 24.0  |
| 4       | 10.0                 | 14.0  | 23.0                 | 28.0  | 17.0                | 25.0  | 16.0              | 17.0  | 90.0                  | 41.0   | 2.0                       | -     | 0.2                     | 1.7   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 22.5  |
| 5       | 10.0                 | 13.5  | 24.5                 | 28.0  | 13.0                | 25.0  | 11.0              | 18.0  | 77.0                  | 47.0   | 2.0                       | -     | 0.6                     | 2.6   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 15.0                  | 24.0  |
| 6       | 12.0                 | 15.0  | 25.0                 | 29.0  | 15.0                | 26.0  | 13.0              | 18.0  | 78.0                  | 42.0   | 2.0                       | -     | 0.6                     | 2.1   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 16.5                  | 24.0  |
| 7       | 13.0                 | 16.0  | 26.5                 | 29.5  | 16.0                | 26.0  | 14.0              | 17.0  | 79.0                  | 36.0   | 2.0                       | -     | 0.6                     | 3.9   | NW                      | NE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 24.0  |
| 8       | 13.5                 | 16.0  | 26.5                 | 29.5  | 16.0                | 27.0  | 14.0              | 18.0  | 79.0                  | 38.0   | -                         | 2.0   | 2.5                     | 6.1   | NW                      | NE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 24.0  |
| 9       | 12.5                 | 17.0  | 26.5                 | 29.0  | 16.0                | 25.0  | 13.0              | 16.0  | 69.0                  | 35.0   | 2.0                       | -     | 1.1                     | 6.2   | NW                      | NE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 25.0  |
| 10      | 10.0                 | 15.0  | 24.0                 | 30.0  | 15.0                | 25.0  | 11.0              | 17.0  | 58.0                  | 41.0   | 2.0                       | -     | 0.6                     | 3.0   | NW                      | NE    | -             | -     | 0.5                  | 1.0   | 15.0                  | 22.5  |
| 11      | 10.0                 | 14.0  | 25.0                 | 30.0  | 14.0                | 26.0  | 11.0              | 18.0  | 67.0                  | 42.0   | -                         | -     | 0.4                     | 1.8   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 14.5                  | 23.0  |
| 12      | 10.0                 | 13.0  | 26.0                 | 31.0  | 14.0                | 27.0  | 12.0              | 18.0  | 78.0                  | 38.0   | 2.0                       | -     | -                       | 1.9   | NW                      | NW    | -             | -     | 0.5                  | 1.0   | 14.5                  | 24.0  |
| 13      | 12.0                 | 17.5  | 26.5                 | 32.5  | 19.0                | 28.0  | 15.0              | 20.0  | 63.0                  | 45.0   | -                         | -     | 0.5                     | 1.7   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 16.0                  | 24.5  |
| 14      | 13.0                 | 17.0  | 28.0                 | 30.0  | 17.0                | 27.0  | 15.0              | 19.0  | 80.0                  | 44.0   | -                         | -     | 0.8                     | 2.0   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 22.0  |
| 15      | 13.0                 | 15.5  | 27.0                 | 27.5  | 16.0                | 27.0  | 14.0              | 19.0  | 79.0                  | 44.0   | 2.0                       | -     | 0.5                     | 2.1   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 17.0                  | 24.5  |
| 16      | 13.5                 | 16.0  | 27.5                 | 30.5  | 17.0                | 27.0  | 15.0              | 20.0  | 80.0                  | 50.0   | -                         | -     | 0.5                     | 1.8   | NW                      | NW    | -             | -     | 0.5                  | 1.0   | 17.0                  | 24.5  |
| 17      | 13.5                 | 16.5  | 27.5                 | 29.0  | 17.0                | 26.0  | 15.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | 0.6                     | 2.4   | NE                      | SW    | -             | -     | 0.4                  | 0.8   | 17.5                  | 24.5  |
| 18      | 8.5                  | 15.0  | 26.0                 | 28.5  | 15.0                | 24.0  | 12.0              | 15.0  | 68.0                  | 33.0   | 2.0                       | -     | 0.3                     | 2.6   | NE                      | SE    | -             | -     | 0.4                  | 0.8   | 15.0                  | 22.5  |
| 19      | 8.0                  | 12.0  | 24.0                 | 29.0  | 12.0                | 24.0  | 9.0               | 16.0  | 65.0                  | 39.0   | -                         | -     | 0.4                     | 1.9   | SE                      | SE    | -             | -     | 0.4                  | 0.8   | 13.0                  | 21.5  |
| 20      | 8.5                  | 12.0  | 24.5                 | 29.0  | 12.0                | 25.0  | 10.0              | 17.0  | 76.0                  | 41.0   | 2.0                       | -     | 0.2                     | 2.3   | NW                      | SE    | -             | -     | 0.5                  | 0.8   | 13.5                  | 22.0  |
| 21      | 10.0                 | 12.0  | 25.0                 | 29.0  | 13.0                | 24.0  | 11.0              | 16.0  | 77.0                  | 39.0   | -                         | -     | 0.6                     | 2.2   | SW                      | SE    | -             | -     | 0.5                  | 0.8   | 14.5                  | 21.5  |
| 22      | 10.0                 | 15.0  | 29.0                 | 30.0  | 12.0                | 24.0  | 11.0              | 15.0  | 88.0                  | 33.0   | 2.0                       | -     | 0.4                     | 3.1   | NW                      | SW    | -             | -     | 0.5                  | 0.8   | 14.5                  | 21.0  |
| 23      | 10.0                 | 15.0  | 25.0                 | 29.0  | 15.0                | 23.0  | 10.0              | 15.0  | 48.0                  | 38.0   | 2.0                       | -     | -                       | 2.6   | SE                      | SE    | -             | -     | 0.5                  | 0.8   | 14.5                  | 22.5  |
| 24      | 9.5                  | 13.0  | 25.0                 | 30.0  | 15.0                | 24.0  | 10.0              | 19.0  | 48.0                  | 60.0   | 2.0                       | -     | 0.4                     | 2.3   | SW                      | SW    | -             | -     | 0.5                  | 0.8   | 14.0                  | 22.0  |
| 25      | 9.0                  | 11.0  | 25.0                 | 30.0  | 11.0                | 24.0  | 10.0              | 18.0  | 87.0                  | 54.0   | -                         | -     | 1.2                     | 2.1   | SW                      | NE    | -             | -     | 0.5                  | 0.8   | 14.0                  | 23.5  |
| 26      | 8.0                  | 12.0  | 27.0                 | 29.0  | 13.0                | 23.0  | 10.0              | 19.0  | 66.0                  | 67.0   | 2.0                       | -     | 0.1                     | 3.6   | NW                      | NE    | -             | -     | 0.4                  | 0.8   | 13.5                  | 22.5  |
| 27      | 8.0                  | 10.0  | 25.0                 | 29.0  | 15.0                | 22.0  | 11.0              | 20.0  | 58.0                  | 82.0   | 2.0                       | -     | 0.6                     | 2.3   | NW                      | NW    | -             | -     | 0.4                  | 0.8   | 12.0                  | 21.5  |
| 28      | 8.0                  | 11.0  | 24.0                 | 28.0  | 16.0                | 23.0  | 11.0              | 15.0  | 50.0                  | 38.0   | 2.0                       | -     | 0.3                     | 2.3   | NW                      | NE    | -             | -     | 0.4                  | 0.8   | 12.0                  | 21.0  |
| 29      | 8.0                  | 11.0  | 25.0                 | 28.0  | 10.0                | 24.0  | 8.0               | 14.0  | 74.0                  | 27.0   | -                         | 2.0   | 0.3                     | 2.6   | SE                      | NE    | -             | -     | 0.4                  | 0.8   | 12.0                  | 22.0  |
| 30      | 9.0                  | 11.0  | 25.0                 | 29.0  | 12.0                | 24.0  | 9.0               | 18.0  | 65.0                  | 53.0   | -                         | -     | 0.5                     | 2.2   | NW                      | SE    | -             | -     | 0.4                  | 0.8   | 12.5                  | 22.5  |
| 31      | 9.0                  |       | 25.0                 |       | 11.0                |       | 9.0               |       | 75.0                  |        | 2.0                       |       | 0.7                     |       | NW                      |       | -             |       | 0.4                  |       | 12.0                  |       |
| Total   | 322.0                | 439.5 | 791.0                | 898.0 | 459.0               | 769.0 | 374.0             | 534.0 | 2225.0                | 1378.0 | 40.0                      | 4.0   | 17.5                    | 81.0  |                         |       | -             | -     | 14.6                 | 28.2  | 479.0                 | 718.0 |
| Average | 10.4                 | 14.2  | 25.5                 | 29.0  | 14.8                | 24.8  | 12.1              | 17.2  | 71.8                  | 44.5   | 1.3                       | 0.1   | 0.6                     | 2.6   |                         |       |               |       |                      |       | 15.5                  | 23.2  |
|         | 12.3                 |       | 27.2                 |       | 19.8                |       | 14.6              |       | 58.1                  |        | 0.7                       |       | 1.6                     |       |                         |       | 0.0           |       | 42.8                 |       | 19.3                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 13.5  |                      | 28.5  |                     | 25.0  |                   | 16.0  |                       | 35.0   |                           | -     |                         | 2.3   |                         | NE    |               | -     |                      | 0.8   |                       | 22.0  |
| 1       | 9.5                  | 11.5  | 25.0                 | 28.5  | 12.0                | 25.0  | 10.0              | 18.0  | 76.0                  | 47.0   | 2.0                       | -     | 0.2                     | 2.5   | NW                      | SE    | -             | -     | 0.5                  | 0.8   | 14.0                  | 22.0  |
| 2       | 11.0                 | 13.0  | 25.5                 | 27.5  | 13.0                | 24.0  | 11.0              | 17.0  | 77.0                  | 46.0   | -                         | -     | 0.9                     | 2.1   | NW                      | SE    | -             | -     | 0.5                  | 0.8   | 14.0                  | 22.0  |
| 3       | 9.5                  | 12.0  | 24.0                 | 27.5  | 12.0                | 24.0  | 10.0              | 16.0  | 76.0                  | 39.0   | 2.0                       | -     | 0.2                     | 3.1   | NW                      | SE    | -             | -     | 0.5                  | 0.8   | 14.0                  | 22.0  |
| 4       | 8.0                  | 10.0  | 27.0                 | 28.0  | 10.0                | 22.0  | 8.0               | 14.0  | 62.0                  | 36.0   | 2.0                       | -     | 0.1                     | 2.3   | NW                      | SE    | -             | -     | 0.4                  | 0.7   | 11.0                  | 20.5  |
| 5       | 8.0                  | 10.5  | 22.0                 | 27.0  | 10.0                | 24.0  | 8.0               | 16.0  | 74.0                  | 39.0   | -                         | -     | 0.6                     | 2.5   | NW                      | NW    | -             | -     | 0.4                  | 0.8   | 11.0                  | 20.5  |
| 6       | 8.0                  | 13.0  | 23.5                 | 28.0  | 12.0                | 24.0  | 9.0               | 15.0  | 65.0                  | 33.0   | -                         | -     | 0.5                     | 2.1   | NE                      | SE    | -             | -     | 0.4                  | 0.8   | 12.0                  | 20.5  |
| 7       | 8.0                  | 13.0  | 24.0                 | 28.0  | 12.0                | 25.0  | 9.0               | 16.0  | 65.0                  | 35.0   | 2.0                       | -     | 0.9                     | 2.3   | NW                      | SW    | -             | -     | 0.4                  | 0.8   | 13.0                  | 21.0  |
| 8       | 8.0                  | 10.5  | 24.5                 | 27.5  | 11.0                | 24.0  | 8.0               | 16.0  | 63.0                  | 39.0   | 2.0                       | -     | 0.8                     | 2.9   | NW                      | SE    | -             | -     | 0.4                  | 0.7   | 12.0                  | 20.0  |
| 9       | 8.0                  | 11.0  | 24.0                 | 28.0  | 12.0                | 24.0  | 9.0               | 16.0  | 65.0                  | 39.0   | 2.0                       | -     | 0.5                     | 2.4   | NW                      | SE    | -             | -     | 0.4                  | 0.7   | 12.0                  | 20.0  |
| 10      | 8.0                  | 10.0  | 24.5                 | 26.0  | 10.0                | 24.0  | 8.0               | 16.0  | 74.0                  | 39.0   | 2.0                       | 2.0   | 0.1                     | 2.5   | NW                      | SW    | -             | -     | 0.4                  | 0.7   | 13.0                  | 21.0  |
| 11      | 8.0                  | 12.0  | 23.0                 | 29.0  | 11.0                | 26.0  | 9.0               | 17.0  | 75.0                  | 36.0   | -                         | -     | 0.4                     | 2.6   | NW                      | SE    | -             | -     | 0.4                  | 1.0   | 13.0                  | 22.0  |
| 12      | 8.0                  | 11.5  | 26.0                 | 29.0  | 12.0                | 26.0  | 9.0               | 16.0  | 65.0                  | 30.0   | -                         | -     | 0.3                     | 2.1   | NW                      | SW    | -             | -     | 0.4                  | 0.8   | 13.0                  | 22.0  |
| 13      | 10.0                 | 13.5  | 26.0                 | 30.0  | 14.0                | 27.0  | 11.0              | 19.0  | 67.0                  | 44.0   | -                         | -     | 0.2                     | 1.8   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 14.0                  | 22.0  |
| 14      | 11.5                 | 13.5  | 27.5                 | 31.0  | 14.0                | 28.0  | 11.0              | 18.0  | 67.0                  | 37.0   | -                         | -     | 0.5                     | 2.1   | SW                      | SE    | -             | -     | 0.5                  | 1.0   | 15.0                  | 24.0  |
| 15      | 11.0                 | 14.0  | 27.5                 | 31.0  | 13.0                | 27.0  | 11.0              | 16.0  | 77.0                  | 26.0   | -                         | 2.0   | 1.2                     | 3.7   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.5  |
| 16      | 8.0                  | 12.0  | 26.5                 | 29.5  | 12.0                | 26.0  | 9.0               | 16.0  | 65.0                  | 30.0   | 2.0                       | -     | 0.3                     | 2.7   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 13.0                  | 23.0  |
| 17      | 8.0                  | 11.5  | 26.5                 | 30.0  | 11.0                | 27.0  | 9.0               | 18.0  | 75.0                  | 38.0   | -                         | -     | 0.9                     | 2.1   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 12.0                  | 22.0  |
| 18      | 9.0                  | 12.5  | 26.5                 | 30.0  | 12.0                | 26.0  | 9.0               | 16.0  | 65.0                  | 30.0   | 2.0                       | -     | 0.5                     | 2.9   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 14.0                  | 23.0  |
| 19      | 8.0                  | 13.0  | 26.5                 | 29.0  | 12.0                | 26.0  | 9.0               | 17.0  | 65.0                  | 36.0   | -                         | -     | 0.1                     | 2.9   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 13.0                  | 23.0  |
| 20      | 8.0                  | 12.0  | 26.0                 | 30.0  | 12.0                | 27.0  | 9.0               | 18.0  | 65.0                  | 38.0   | -                         | -     | 0.3                     | 2.3   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 13.0                  | 23.0  |
| 21      | 9.0                  | 12.0  | 27.0                 | 30.0  | 12.0                | 26.0  | 10.0              | 18.0  | 76.0                  | 42.0   | -                         | -     | 0.7                     | 2.8   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 14.0                  | 24.0  |
| 22      | 9.5                  | 13.5  | 26.5                 | 29.5  | 13.0                | 27.0  | 11.0              | 17.0  | 77.0                  | 32.0   | 2.0                       | -     | 0.9                     | 2.8   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 14.0                  | 24.0  |
| 23      | 10.0                 | 12.5  | 27.0                 | 29.5  | 13.0                | 27.0  | 11.0              | 17.0  | 77.0                  | 32.0   | 2.0                       | -     | 0.8                     | 3.0   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 14.5                  | 24.0  |
| 24      | 12.0                 | 13.5  | 26.5                 | 29.0  | 14.0                | 26.0  | 12.0              | 16.0  | 78.0                  | 30.0   | 2.0                       | 2.0   | 2.6                     | 4.1   | NW                      | NW    | -             | -     | 0.5                  | 1.0   | 15.0                  | 24.0  |
| 25      | 8.5                  | 12.0  | 26.0                 | 27.5  | 12.0                | 24.0  | 9.0               | 14.0  | 63.0                  | 27.0   | -                         | -     | 0.2                     | 3.6   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 13.0                  | 22.0  |
| 26      | 8.0                  | 15.0  | 24.0                 | 24.0  | 12.0                | 24.5  | 8.0               | 13.0  | 54.0                  | 18.0   | 2.0                       | -     | 0.1                     | 2.9   | NW                      | NW    | -             | -     | 0.5                  | 1.0   | 12.5                  | 22.0  |
| 27      | 8.0                  | 14.0  | 25.0                 | 30.0  | 12.0                | 24.0  | 9.0               | 15.0  | 65.0                  | 21.0   | 2.0                       | -     | 0.7                     | 2.9   | NW                      | SW    | -             | -     | 0.4                  | 1.0   | 12.0                  | 23.0  |
| 28      | 8.0                  | 13.0  | 27.0                 | 27.5  | 11.0                | 23.0  | 9.0               | 14.0  | 77.0                  | 31.0   | 2.0                       | -     | 1.0                     | 2.5   | NW                      | NW    | -             | -     | 0.4                  | 1.0   | 11.5                  | 23.0  |
| 29      | 9.0                  | 12.0  | 27.0                 | 30.0  | 11.0                | 27.0  | 8.0               | 18.0  | 63.0                  | 38.0   | -                         | -     | 1.1                     | 2.9   | NE                      | SE    | -             | -     | 0.4                  | 1.0   | 12.0                  | 24.0  |
| 30      | 9.0                  | 13.0  | 28.0                 | 30.0  | 13.0                | 28.0  | 9.0               | 16.0  | 59.0                  | 21.0   | 2.0                       | -     | 0.2                     | 3.6   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 13.0                  | 25.0  |
| 31      | 8.5                  |       | 29.5                 |       | 13.0                |       | 9.0               |       | 55.0                  |        | -                         |       | 2.3                     |       | SW                      |       | -             |       | 0.5                  |       | 13.0                  |       |
| Total   | 275.0                | 384.0 | 799.5                | 890.0 | 373.0               | 787.5 | 291.0             | 505.0 | 2127.0                | 1064.0 | 32.0                      | 6.0   | 20.1                    | 83.3  |                         |       | -             | -     | 14.3                 | 28.2  | 405.5                 | 694.0 |
| Average | 8.9                  | 12.4  | 25.8                 | 28.7  | 12.0                | 25.4  | 9.4               | 16.3  | 68.6                  | 34.3   | 1.0                       | 0.2   | 0.6                     | 2.7   |                         |       |               |       |                      |       | 13.1                  | 22.4  |
|         | 10.6                 |       | 27.3                 |       | 18.7                |       | 12.8              |       | 51.5                  |        | 0.6                       |       | 1.7                     |       |                         |       | 0.0           |       | 42.5                 |       | 17.7                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 12.5  |                      | 32.5  |                     | 29.0  |                   | 16.0  |                       | 19.0   |                           | 4.0   |                         | 6.8   |                         | NW    |               | -     |                      | 1.0   |                       | 25.0  |
| 1       | 10.0                 | 13.5  | 28.5                 | 28.0  | 14.0                | 29.0  | 10.0              | 16.0  | 57.0                  | 19.0   | -                         | 2.0   | 0.1                     | 3.9   | NW                      | NW    | -             | -     | 0.5                  | 1.2   | 14.0                  | 25.0  |
| 2       | 9.5                  | 14.0  | 28.5                 | 28.0  | 14.0                | 29.0  | 10.0              | 17.0  | 57.0                  | 24.0   | -                         | 2.0   | 0.5                     | 2.9   | SW                      | SW    | -             | -     | 0.5                  | 1.4   | 13.5                  | 25.5  |
| 3       | 11.0                 | 14.5  | 29.0                 | 28.0  | 14.0                | 28.0  | 11.0              | 18.0  | 67.0                  | 33.0   | 2.0                       | -     | 0.7                     | 4.0   | NW                      | SE    | -             | -     | 0.7                  | 1.5   | 15.0                  | 25.5  |
| 4       | 12.0                 | 15.5  | 28.5                 | 33.0  | 16.0                | 30.0  | 12.0              | 19.0  | 59.0                  | 31.0   | 2.0                       | 2.0   | -                       | 3.4   | SW                      | SE    | -             | -     | 0.7                  | 1.5   | 15.0                  | 26.0  |
| 5       | 13.5                 | 16.0  | 30.0                 | 33.0  | 16.0                | 30.0  | 13.0              | 21.0  | 69.0                  | 42.0   | -                         | -     | 0.8                     | 1.8   | NW                      | SE    | -             | -     | 0.8                  | 1.8   | 27.0                  | 26.0  |
| 6       | 15.5                 | 17.0  | 30.0                 | 33.0  | 18.0                | 30.0  | 15.0              | 20.0  | 71.0                  | 36.0   | -                         | -     | 0.9                     | 2.6   | NW                      | SW    | -             | -     | 0.8                  | 1.8   | 18.0                  | 26.0  |
| 7       | 15.0                 | 17.0  | 29.5                 | 24.0  | 18.0                | 24.0  | 15.0              | 19.0  | 71.0                  | 60.0   | 2.0                       | -     | 0.9                     | 1.6   | NW                      | SE    | -             | -     | 0.8                  | 1.0   | 18.5                  | 22.0  |
| 8       | 14.0                 | 18.0  | 23.5                 | 28.5  | 17.0                | 23.0  | 14.0              | 18.0  | 70.0                  | 59.0   | 2.0                       | -     | 1.2                     | 3.1   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 18.0                  | 21.0  |
| 9       | 15.0                 | 16.0  | 23.0                 | 32.0  | 17.0                | 28.0  | 13.0              | 17.0  | 61.0                  | 28.0   | 2.0                       | 2.0   | 1.5                     | 4.3   | SW                      | SW    | -             | -     | 0.5                  | 1.4   | 18.0                  | 24.0  |
| 10      | 15.0                 | 16.0  | 28.0                 | 28.5  | 16.0                | 25.0  | 13.0              | 16.0  | 61.0                  | 35.0   | -                         | -     | 1.4                     | 5.2   | NW                      | NE    | -             | -     | 0.5                  | 1.4   | 18.0                  | 24.5  |
| 11      | 14.0                 | 17.0  | 25.0                 | 31.0  | 19.0                | 18.0  | 13.0              | 16.0  | 46.0                  | 80.0   | 2.0                       | 6.0   | 2.5                     | 5.8   | NE                      | NW    | -             | 1.6   | 0.5                  | 1.0   | 18.0                  | 22.0  |
| 12      | 14.5                 | 17.5  | 17.5                 | 24.5  | 18.0                | 21.0  | 13.0              | 16.0  | 80.0                  | 73.0   | 4.0                       | 2.0   | 2.4                     | 7.5   | NE                      | SE    | -             | 0.8   | 0.4                  | 0.8   | 17.0                  | 22.0  |
| 13      | 11.0                 | 17.0  | 20.0                 | 29.0  | 18.0                | 18.0  | 16.0              | 18.0  | 80.0                  | 71.0   | 2.0                       | 6.0   | 4.0                     | 4.9   | NE                      | SE    | 4.4           | -     | 0.4                  | 1.0   | 18.0                  | 24.0  |
| 14      | 14.0                 | 17.5  | 17.5                 | 27.0  | 17.0                | 25.0  | 16.0              | 15.0  | 90.0                  | 54.0   | 4.0                       | -     | 1.2                     | 4.1   | NW                      | SE    | 16.0          | -     | 0.5                  | 1.5   | 17.0                  | 25.0  |
| 15      | 11.0                 | 15.0  | 25.0                 | 29.0  | 15.0                | 28.0  | 14.0              | 19.0  | 78.0                  | 33.0   | 4.0                       | -     | 0.4                     | 2.9   | SW                      | NE    | -             | -     | 0.5                  | 1.8   | 15.5                  | 25.0  |
| 16      | 11.5                 | 15.0  | 27.5                 | 31.0  | 16.0                | 28.0  | 13.0              | 18.0  | 69.0                  | 28.0   | 2.0                       | -     | 0.7                     | 2.5   | NW                      | SE    | -             | -     | 0.5                  | 1.8   | 16.0                  | 27.5  |
| 17      | 13.0                 | 16.0  | 28.0                 | 28.0  | 17.0                | 29.0  | 13.0              | 17.0  | 70.0                  | 29.0   | 2.0                       | -     | 0.3                     | 2.8   | NW                      | NW    | -             | -     | 0.5                  | 1.8   | 17.0                  | 28.0  |
| 18      | 13.0                 | 17.0  | 29.0                 | 32.0  | 17.0                | 29.0  | 14.0              | 18.0  | 70.0                  | 29.0   | 2.0                       | -     | 0.3                     | 2.6   | SW                      | SW    | -             | -     | 0.5                  | 1.8   | 17.5                  | 27.5  |
| 19      | 14.0                 | 17.0  | 28.5                 | 33.0  | 18.0                | 30.0  | 14.0              | 18.0  | 71.0                  | 36.0   | 2.0                       | -     | 0.9                     | 3.1   | SE                      | SW    | -             | -     | 0.7                  | 2.0   | 18.5                  | 24.0  |
| 20      | 15.5                 | 19.0  | 30.0                 | 34.0  | 19.0                | 30.0  | 15.0              | 20.0  | 63.0                  | 31.0   | 2.0                       | -     | 0.6                     | 3.7   | SW                      | NW    | -             | -     | 0.7                  | 2.0   | 18.0                  | 29.5  |
| 21      | 13.0                 | 18.5  | 31.5                 | 34.0  | 19.0                | 30.0  | 15.0              | 19.0  | 54.0                  | 31.0   | -                         | -     | 0.7                     | 2.8   | SE                      | SW    | -             | -     | 0.7                  | 2.0   | 18.0                  | 29.5  |
| 22      | 13.5                 | 20.0  | 31.5                 | 34.0  | 20.0                | 30.0  | 14.0              | 19.0  | 56.0                  | 26.0   | 2.0                       | 2.0   | 0.3                     | 3.2   | NW                      | NE    | -             | -     | 0.9                  | 2.0   | 19.0                  | 30.5  |
| 23      | 14.0                 | 20.0  | 30.0                 | 34.5  | 19.0                | 32.0  | 15.0              | 18.0  | 63.0                  | 20.0   | 2.0                       | -     | 0.6                     | 4.5   | SW                      | NE    | -             | -     | 1.0                  | 2.0   | 21.0                  | 31.0  |
| 24      | 16.0                 | 20.0  | 31.0                 | 35.0  | 20.0                | 32.0  | 15.0              | 18.0  | 56.0                  | 29.0   | 2.0                       | 2.0   | 0.9                     | 4.3   | NE                      | SW    | -             | -     | 1.0                  | 2.1   | 21.0                  | 31.0  |
| 25      | 18.0                 | 20.5  | 32.0                 | 35.5  | 21.0                | 34.0  | 15.0              | 20.0  | 65.0                  | 32.0   | 2.0                       | -     | 0.8                     | 3.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 31.0  |
| 26      | 19.0                 | 21.5  | 32.5                 | 35.0  | 22.0                | 32.0  | 17.0              | 22.0  | 66.0                  | 26.0   | -                         | -     | 1.3                     | 3.0   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 31.5  |
| 27      | 14.0                 | 20.0  | 31.5                 | 35.0  | 20.0                | 32.0  | 18.0              | 20.0  | 48.0                  | 20.0   | 2.0                       | -     | 0.6                     | 3.4   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 31.0  |
| 28      | 15.0                 |       | 32.5                 |       | 22.0                |       | 16.0              |       | 50.0                  |        | -                         |       | 0.2                     |       | SW                      |       | -             |       | 1.0                  |       | 19.0                  |       |
| Total   | 384.5                | 478.5 | 779.0                | 870.0 | 497.0               | 783.0 | 392.0             | 508.0 | 1818.0                | 1034.0 | 46.0                      | 30.0  | 26.7                    | 104.7 |                         |       | 20.4          | 2.4   | 19.1                 | 44.6  | 502.5                 | 740.5 |
| Average | 13.7                 | 17.1  | 27.8                 | 31.1  | 17.8                | 28.0  | 14.0              | 18.1  | 64.9                  | 36.9   | 1.6                       | 1.1   | 1.0                     | 3.7   |                         |       |               |       |                      |       | 17.9                  | 26.4  |
|         | 15.4                 |       | 29.4                 |       | 22.9                |       | 16.1              |       | 50.9                  |        | 1.4                       |       | 2.3                     |       |                         |       | 22.8          |       | 63.7                 |       | 22.2                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 20.0  |                      | 35.5   |                     | 34.0   |                   | 20.0  |                       | 23.0   |                           | -     |                         | 2.6   |                         | SE    |               | -     |                      | 2.2   |                       | 31.5  |
| 1       | 16.0                 | 20.0  | 23.5                 | 36.0   | 22.0                | 34.0   | 16.0              | 19.0  | 50.0                  | 15.0   | -                         | 2.0   | 0.5                     | 3.4   | NW                      | SW    | -             | -     | 1.0                  | 2.3   | 20.0                  | 31.5  |
| 2       | 17.0                 | 17.0  | 33.0                 | 38.0   | 22.0                | 34.0   | 17.0              | 20.0  | 58.0                  | 23.0   | -                         | 2.0   | 1.3                     | 3.3   | NE                      | SE    | -             | -     | 1.2                  | 2.5   | 21.0                  | 32.0  |
| 3       | 18.5                 | 24.0  | 33.0                 | 38.0   | 24.0                | 34.0   | 17.0              | 22.0  | 46.0                  | 32.0   | 2.0                       | 2.0   | 0.8                     | 3.8   | NW                      | SW    | -             | -     | 1.4                  | 2.5   | 22.0                  | 32.0  |
| 4       | 17.5                 | 22.5  | 33.5                 | 37.5   | 22.0                | 34.0   | 16.0              | 24.0  | 50.0                  | 41.0   | 2.0                       | 2.0   | 1.2                     | 4.6   | NW                      | SE    | -             | -     | 1.4                  | 2.5   | 21.5                  | 31.5  |
| 5       | 19.5                 | 22.5  | 34.0                 | 35.0   | 23.0                | 30.0   | 16.0              | 19.0  | 45.0                  | 31.0   | 2.0                       | 2.0   | 0.4                     | 6.7   | NW                      | NE    | -             | -     | 1.5                  | 2.4   | 22.0                  | 30.0  |
| 6       | 18.0                 | 21.5  | 30.0                 | 35.5   | 22.0                | 32.0   | 17.0              | 23.0  | 58.0                  | 44.0   | 2.0                       | -     | 0.5                     | 3.5   | NW                      | NW    | -             | -     | 1.5                  | 2.5   | 21.0                  | 31.5  |
| 7       | 16.0                 | 22.0  | 32.5                 | 36.0   | 22.0                | 34.0   | 16.0              | 24.0  | 50.0                  | 41.0   | -                         | 2.0   | 0.3                     | 3.2   | SE                      | SE    | -             | -     | 1.3                  | 2.5   | 20.0                  | 31.5  |
| 8       | 16.5                 | 21.0  | 32.5                 | 34.0   | 22.0                | 30.0   | 15.0              | 20.0  | 43.0                  | 36.0   | 2.0                       | 4.0   | 2.6                     | 6.8   | NE                      | NE    | -             | -     | 1.5                  | 2.1   | 21.0                  | 29.0  |
| 9       | 20.0                 | 22.5  | 34.0                 | 35.5   | 23.0                | 32.0   | 17.0              | 26.0  | 52.0                  | 61.0   | 2.0                       | -     | 0.6                     | 2.7   | NW                      | SW    | -             | -     | 1.5                  | 2.3   | 22.0                  | 30.5  |
| 10      | 16.0                 | 21.0  | 32.0                 | 37.0   | 21.0                | 34.0   | 15.0              | 28.0  | 49.0                  | 62.0   | 2.0                       | -     | 1.2                     | 2.4   | SW                      | NE    | -             | -     | 1.4                  | 2.5   | 21.0                  | 32.0  |
| 11      | 20.0                 | 23.0  | 35.0                 | 37.0   | 24.0                | 32.0   | 17.0              | 28.0  | 46.0                  | 73.0   | 2.0                       | 2.0   | 1.1                     | 4.3   | NW                      | NE    | -             | -     | 1.5                  | 2.5   | 22.5                  | 30.0  |
| 12      | 19.0                 | 24.0  | 31.5                 | 37.0   | 24.0                | 34.0   | 18.0              | 30.0  | 53.0                  | 74.0   | 2.0                       | 2.0   | 0.5                     | 5.2   | SE                      | NW    | -             | -     | 1.5                  | 2.5   | 22.0                  | 31.0  |
| 13      | 18.0                 | 23.0  | 33.5                 | 38.0   | 23.0                | 34.0   | 16.0              | 27.0  | 31.0                  | 56.0   | 2.0                       | 2.0   | 0.7                     | 5.8   | NW                      | NW    | -             | -     | 1.5                  | 2.5   | 21.5                  | 31.5  |
| 14      | 17.5                 | 23.5  | 35.0                 | 38.0   | 24.0                | 34.0   | 17.0              | 28.0  | 46.0                  | 62.0   | 2.0                       | 2.0   | 0.6                     | 3.6   | NW                      | SE    | -             | -     | 1.5                  | 2.7   | 21.0                  | 32.0  |
| 15      | 20.0                 | 23.0  | 34.5                 | 36.0   | 23.0                | 32.0   | 17.0              | 26.0  | 52.0                  | 61.0   | 2.0                       | 6.0   | 3.6                     | 5.2   | NW                      | NW    | -             | -     | 1.5                  | 2.5   | 22.0                  | 29.5  |
| 16      | 20.0                 | 21.0  | 32.0                 | 34.5   | 23.0                | 33.0   | 19.0              | 19.0  | 67.0                  | 67.0   | 2.0                       | 4.0   | 1.4                     | 5.2   | SW                      | SW    | 0.8           | 0.2   | 1.2                  | 0.7   | 22.0                  | 23.0  |
| 17      | 16.0                 | 21.0  | 22.5                 | 34.0   | 21.0                | 32.0   | 18.0              | 26.0  | 73.0                  | 61.0   | 2.0                       | 4.0   | 1.5                     | 4.4   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 19.0                  | 30.0  |
| 18      | 19.5                 | 24.5  | 31.0                 | 36.5   | 25.0                | 34.0   | 19.0              | 27.0  | 54.0                  | 56.0   | -                         | -     | 0.8                     | 3.3   | NE                      | SE    | -             | -     | 1.0                  | 2.5   | 21.5                  | 32.5  |
| 19      | 17.0                 | 23.0  | 34.0                 | 37.0   | 24.0                | 34.0   | 17.0              | 28.0  | 46.0                  | 62.0   | 2.0                       | -     | 0.5                     | 3.5   | NW                      | NE    | -             | -     | 1.0                  | 2.7   | 22.0                  | 32.5  |
| 20      | 17.0                 | 23.0  | 34.0                 | 37.0   | 24.0                | 32.0   | 17.0              | 27.0  | 46.0                  | 67.0   | -                         | -     | 0.5                     | 2.5   | NW                      | NE    | -             | -     | 1.2                  | 2.7   | 21.0                  | 32.0  |
| 21      | 19.0                 | 23.0  | 35.0                 | 37.5   | 23.0                | 32.0   | 18.0              | 27.0  | 59.0                  | 67.0   | -                         | 2.0   | 2.4                     | 2.4   | NW                      | SE    | -             | -     | 1.5                  | 2.6   | 22.0                  | 31.0  |
| 22      | 17.5                 | 26.5  | 35.0                 | 38.5   | 25.0                | 34.0   | 21.0              | 29.0  | 68.0                  | 68.0   | 2.0                       | 4.0   | 1.2                     | 4.0   | NW                      | SW    | -             | -     | 1.5                  | 2.8   | 22.5                  | 33.0  |
| 23      | 18.0                 | 26.0  | 35.5                 | 38.0   | 26.0                | 34.0   | 22.0              | 28.0  | 69.0                  | 62.0   | 2.0                       | 2.0   | 1.2                     | 5.5   | NW                      | SW    | -             | -     | 1.5                  | 2.7   | 21.0                  | 32.0  |
| 24      | 18.0                 | 23.0  | 35.0                 | 39.0   | 27.0                | 34.0   | 17.0              | 29.0  | 32.0                  | 68.0   | 2.0                       | -     | 1.6                     | 4.4   | NW                      | NE    | -             | -     | 1.5                  | 3.0   | 21.0                  | 33.0  |
| 25      | 17.0                 | 26.0  | 35.5                 | 38.0   | 24.0                | 34.0   | 21.0              | 29.0  | 75.0                  | 68.0   | -                         | -     | 1.2                     | 6.1   | NE                      | NW    | -             | -     | 1.7                  | 3.0   | 22.0                  | 33.0  |
| 26      | 16.0                 | 26.0  | 36.0                 | 38.5   | 26.0                | 34.0   | 16.0              | 26.0  | 30.0                  | 51.0   | 4.0                       | -     | 0.6                     | 5.7   | NW                      | SW    | -             | -     | 1.5                  | 3.0   | 21.0                  | 32.0  |
| 27      | 17.0                 | 25.0  | 35.5                 | 38.0   | 25.0                | 36.0   | 22.0              | 29.0  | 76.0                  | 58.0   | -                         | 2.0   | 0.7                     | 3.6   | NW                      | SE    | -             | -     | 1.5                  | 3.0   | 21.0                  | 34.0  |
| 28      | 19.0                 | 24.5  | 36.5                 | 40.0   | 26.0                | 36.0   | 22.0              | 30.0  | 69.0                  | 63.0   | -                         | 2.0   | 0.9                     | 3.2   | NE                      | SE    | -             | -     | 1.5                  | 3.0   | 21.0                  | 33.0  |
| 29      | 17.5                 | 24.5  | 37.0                 | 40.0   | 24.0                | 36.0   | 16.0              | 29.0  | 39.0                  | 58.0   | 2.0                       | -     | 0.8                     | 3.5   | NW                      | SE    | -             | -     | 1.5                  | 3.2   | 22.0                  | 33.5  |
| 30      | 17.5                 | 25.5  | 37.5                 | 40.5   | 24.0                | 36.0   | 18.0              | 28.0  | 53.0                  | 53.0   | -                         | 2.0   | 0.9                     | 4.8   | NW                      | SE    | -             | -     | 1.5                  | 3.0   | 22.0                  | 33.0  |
| 31      | 17.5                 |       | 36.5                 |        | 26.0                |        | 16.0              |       | 30.0                  |        | -                         |       | 2.1                     |       | NW                      |       | -             |       | 1.5                  |       | 21.0                  |       |
| Total   | 553.0                | 713.0 | 1036.0               | 1151.0 | 734.0               | 1039.0 | 546.0             | 795.0 | 1615.0                | 1664.0 | 42.0                      | 52.0  | 34.2                    | 129.2 |                         |       | 0.8           | 0.2   | 42.8                 | 77.9  | 662.5                 | 974.5 |
| Average | 17.8                 | 23.0  | 33.4                 | 37.1   | 23.7                | 33.5   | 17.6              | 25.6  | 52.1                  | 53.7   | 1.4                       | 1.7   | 1.1                     | 4.2   |                         |       |               |       |                      |       | 21.4                  | 31.4  |
|         | 20.4                 |       | 35.3                 |        | 28.6                |        | 21.6              |       | 52.9                  |        | 1.5                       |       | 2.6                     |       |                         |       | 1.0           |       | 120.7                |       | 26.4                  |       |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       | - 0.0 |  | .. N.A. |  |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|-------|--|---------|--|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |       |  |         |  |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |       |  |         |  |
| LPoPM   |                      | 25.0  |                      | 41.5   |                     | 38.0   |                   | 28.0  |                       | 45.0   |                           | 4.0   |                         | 4.4   |                         | SW    |               | -     |                      | 3.0   |                       | 33.0  |       |  |         |  |
| 1       | 23.0                 | 21.0  | 36.5                 | 36.5   | 28.0                | 24.0   | 23.0              | 21.0  | 64.0                  | 75.0   | -                         | 8.0   | 3.3                     | 5.3   | NE                      | NE    | -             | 8.4   | 1.7                  | 2.4   | 23.0                  | 27.0  |       |  |         |  |
| 2       | 17.5                 | 22.5  | 36.5                 | 37.0   | 23.0                | 38.0   | 20.0              | 26.0  | 75.0                  | 43.0   | 2.0                       | -     | 1.1                     | 3.3   | NE                      | NE    | -             | -     | 0.5                  | 2.0   | 19.0                  | 33.0  |       |  |         |  |
| 3       | 20.0                 | 24.0  | 34.5                 | 38.0   | 26.0                | 38.0   | 23.0              | 30.0  | 76.0                  | 54.0   | 4.0                       | 2.0   | 1.2                     | 3.7   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 22.5                  | 34.0  |       |  |         |  |
| 4       | 22.0                 | 21.5  | 35.0                 | 41.0   | 24.0                | 32.0   | 22.0              | 28.0  | 83.0                  | 72.0   | 2.0                       | -     | 1.4                     | 4.7   | NW                      | NE    | -             | 2.0   | 1.0                  | 2.5   | 24.0                  | 32.0  |       |  |         |  |
| 5       | 21.5                 | 25.0  | 31.0                 | 39.5   | 25.0                | 32.0   | 22.0              | 28.0  | 76.0                  | 72.0   | 2.0                       | 2.0   | 1.4                     | 5.1   | SE                      | NE    | -             | -     | 1.0                  | 2.5   | 23.0                  | 31.5  |       |  |         |  |
| 6       | 21.0                 | 28.0  | 32.0                 | 40.5   | 29.0                | 34.0   | 20.0              | 24.0  | 40.0                  | 41.0   | 2.0                       | 2.0   | 2.3                     | 6.5   | SE                      | NE    | -             | -     | 1.0                  | 3.0   | 23.0                  | 31.5  |       |  |         |  |
| 7       | 22.0                 | 28.5  | 40.5                 | 37.5   | 29.0                | 36.0   | 21.0              | 22.0  | 46.0                  | 26.0   | 2.0                       | 4.0   | 2.8                     | 4.4   | NE                      | NE    | -             | -     | 1.5                  | 2.5   | 23.0                  | 32.0  |       |  |         |  |
| 8       | 21.0                 | 27.0  | 36.0                 | 37.0   | 27.0                | 34.0   | 20.0              | 22.0  | 50.0                  | 32.0   | 2.0                       | 4.0   | 1.7                     | 5.0   | NE                      | SE    | -             | -     | 1.5                  | 2.5   | 24.0                  | 31.0  |       |  |         |  |
| 9       | 22.0                 | 27.0  | 33.0                 | 38.0   | 28.0                | 30.0   | 20.0              | 20.0  | 45.0                  | 36.0   | 4.0                       | 4.0   | 4.6                     | 6.9   | SE                      | SW    | -             | -     | 1.7                  | 2.5   | 23.5                  | 32.0  |       |  |         |  |
| 10      | 22.0                 | 26.5  | 30.5                 | 39.0   | 28.0                | 36.0   | 21.0              | 21.0  | 51.0                  | 22.0   | 2.0                       | 2.0   | 1.9                     | 5.3   | SE                      | NE    | -             | -     | 1.5                  | 3.0   | 24.0                  | 31.0  |       |  |         |  |
| 11      | 24.5                 | 28.5  | 35.5                 | 38.5   | 29.0                | 36.0   | 19.0              | 22.0  | 35.0                  | 26.0   | 6.0                       | 2.0   | 2.8                     | 5.1   | NE                      | NE    | -             | -     | 1.8                  | 3.0   | 23.5                  | 35.0  |       |  |         |  |
| 12      | 23.0                 | 24.0  | 36.5                 | 35.0   | 25.0                | 34.0   | 19.0              | 21.0  | 54.0                  | 27.0   | 2.0                       | 2.0   | 3.4                     | 6.7   | NE                      | SW    | -             | -     | 1.7                  | 2.5   | 25.0                  | 34.0  |       |  |         |  |
| 13      | 22.5                 | 22.0  | 33.5                 | 38.0   | 27.0                | 26.0   | 21.0              | 22.0  | 56.0                  | 69.0   | 2.0                       | 12.0  | 1.8                     | 4.9   | SW                      | NW    | -             | 10.0  | 1.5                  | 2.0   | 24.5                  | 31.0  |       |  |         |  |
| 14      | 21.0                 | 23.0  | 28.0                 | 36.5   | 28.0                | 24.0   | 22.0              | 20.0  | 57.0                  | 68.0   | 2.0                       | 12.0  | 2.7                     | 7.5   | NW                      | SE    | -             | 5.6   | 1.0                  | 1.6   | 24.0                  | 29.5  |       |  |         |  |
| 15      | 19.0                 | 23.0  | 25.0                 | 36.0   | 24.0                | 36.0   | 21.0              | 23.0  | 75.0                  | 30.0   | 2.0                       | 2.0   | 3.7                     | 4.5   | SW                      | SW    | 2.4           | -     | 1.0                  | 2.5   | 23.5                  | 27.0  |       |  |         |  |
| 16      | 20.0                 | 26.0  | 35.0                 | 38.0   | 27.0                | 36.0   | 22.0              | 25.0  | 63.0                  | 38.0   | 2.0                       | 2.0   | 0.6                     | 2.6   | NE                      | SE    | 14.8          | -     | 0.8                  | 3.0   | 21.5                  | 33.0  |       |  |         |  |
| 17      | 24.0                 | 28.5  | 36.0                 | 41.0   | 29.0                | 36.0   | 25.0              | 24.0  | 71.0                  | 34.0   | 2.0                       | 4.0   | 1.9                     | 6.1   | NE                      | SW    | -             | -     | 1.5                  | 3.0   | 23.0                  | 34.0  |       |  |         |  |
| 18      | 22.0                 | 22.5  | 40.0                 | 41.0   | 29.0                | 38.0   | 22.0              | 26.0  | 52.0                  | 36.0   | 4.0                       | 2.0   | 1.4                     | 6.6   | SE                      | SE    | -             | -     | 1.4                  | 3.0   | 27.0                  | 35.0  |       |  |         |  |
| 19      | 23.0                 | 29.0  | 39.0                 | 41.0   | 30.0                | 38.0   | 19.0              | 26.0  | 31.0                  | 36.0   | 2.0                       | 4.0   | 0.6                     | 4.3   | SE                      | NE    | -             | -     | 1.5                  | 3.5   | 25.0                  | 35.0  |       |  |         |  |
| 20      | 23.0                 | 29.0  | 38.5                 | 42.0   | 30.0                | 38.0   | 21.0              | 24.0  | 42.0                  | 28.0   | 4.0                       | 4.0   | 1.9                     | 6.0   | NE                      | NE    | -             | -     | 2.0                  | 3.5   | 25.0                  | 36.0  |       |  |         |  |
| 21      | 25.0                 | 31.0  | 39.0                 | 42.5   | 32.0                | 38.0   | 19.0              | 22.0  | 24.0                  | 20.0   | -                         | -     | 2.7                     | 5.9   | NE                      | SE    | -             | -     | 1.8                  | 3.5   | 26.0                  | 35.0  |       |  |         |  |
| 22      | 24.0                 | 32.0  | 39.0                 | 41.0   | 32.0                | 38.0   | 21.0              | 23.0  | 34.0                  | 25.0   | 4.0                       | -     | 1.3                     | 4.3   | SE                      | SE    | -             | -     | 2.0                  | 3.5   | 25.5                  | 36.0  |       |  |         |  |
| 23      | 23.5                 | 31.5  | 38.0                 | 41.0   | 30.0                | 38.0   | 21.0              | 24.0  | 42.0                  | 28.0   | 4.0                       | -     | 1.2                     | 5.6   | SE                      | NE    | -             | -     | 1.8                  | 3.5   | 26.0                  | 36.0  |       |  |         |  |
| 24      | 23.5                 | 29.0  | 38.0                 | 41.0   | 29.0                | 38.0   | 19.0              | 23.0  | 35.0                  | 24.0   | 2.0                       | 2.0   | 1.2                     | 5.3   | NE                      | NE    | -             | -     | 1.8                  | 4.0   | 25.0                  | 35.0  |       |  |         |  |
| 25      | 21.0                 | 31.5  | 38.0                 | 41.5   | 30.0                | 38.0   | 17.0              | 24.0  | 21.0                  | 28.0   | 2.0                       | 2.0   | 0.7                     | 4.7   | NW                      | NW    | -             | -     | 1.6                  | 4.0   | 24.0                  | 36.0  |       |  |         |  |
| 26      | 22.5                 | 31.0  | 38.5                 | 40.0   | 32.0                | 38.0   | 18.0              | 29.0  | 20.0                  | 50.0   | 2.0                       | 2.0   | 1.7                     | 5.6   | SE                      | SW    | -             | -     | 1.6                  | 3.5   | 23.0                  | 35.0  |       |  |         |  |
| 27      | 21.0                 | 32.0  | 36.0                 | 42.0   | 32.0                | 40.0   | 20.0              | 26.0  | 29.0                  | 32.0   | 2.0                       | 4.0   | 2.5                     | 5.7   | SE                      | NW    | -             | -     | 2.0                  | 4.0   | 23.0                  | 37.0  |       |  |         |  |
| 28      | 25.0                 | 34.0  | 40.0                 | 42.0   | 35.0                | 35.0   | 22.0              | 24.0  | 30.0                  | 38.0   | 2.0                       | 2.0   | 3.0                     | 8.6   | NE                      | SE    | -             | -     | 2.0                  | 4.0   | 25.0                  | 36.0  |       |  |         |  |
| 29      | 26.0                 | 31.0  | 34.0                 | 42.0   | 31.0                | 39.0   | 22.0              | 28.0  | 44.0                  | 42.0   | 2.0                       | 2.0   | 3.1                     | 5.9   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 27.0                  | 36.0  |       |  |         |  |
| 30      | 30.0                 |       | 40.0                 |        | 35.0                |        | 25.0              |       | 45.0                  |        | 2.0                       |       | 3.7                     |       | NW                      |       | -             |       | 3.0                  |       | 28.0                  |       |       |  |         |  |
| Total   | 675.5                | 814.5 | 1073.0               | 1185.5 | 863.0               | 1056.0 | 627.0             | 726.0 | 1466.0                | 1197.0 | 72.0                      | 92.0  | 63.4                    | 160.4 |                         |       | 17.2          | 26.0  | 46.2                 | 89.5  | 723.5                 | 999.5 |       |  |         |  |
| Average | 22.5                 | 27.2  | 35.8                 | 39.5   | 28.8                | 35.2   | 20.9              | 24.2  | 48.9                  | 39.9   | 2.4                       | 3.1   | 2.1                     | 5.3   |                         |       |               |       |                      |       | 24.1                  | 33.3  |       |  |         |  |
|         | 24.8                 |       | 37.6                 |        | 32.0                |        | 22.6              |       | 44.4                  |        | 2.7                       |       | 3.7                     |       |                         |       | 43.2          |       | 135.7                |       | 28.7                  |       |       |  |         |  |

## Twice Daily Climatic Data

Station Code : EMP60E5

Local River/Basin : Hamp

Station Name : Andhiarkhore

Sub-Division : UMSD,CWC,Raipur

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
| Day     | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
|         | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 34.0  |                      | 43.0   |                     | 40.0   |                   | 25.0  |                       | 27.0  |                           | 2.0   |                         | 7.1   |                         | SW    |               | -     |                      | 4.0   |                       | 35.0   |
| 1       | 27.0                 | 33.0  | 40.0                 | 41.0   | 34.0                | 34.0   | 24.0              | 21.0  | 41.0                  | 27.0  | -                         | 4.0   | 1.7                     | 5.1   | SW                      | NE    | -             | -     | 3.0                  | 4.0   | 28.0                  | 35.5   |
| 2       | 25.0                 | 33.0  | 33.5                 | 41.0   | 30.0                | 27.0   | 22.0              | 23.0  | 47.0                  | 70.0  | 4.0                       | 4.0   | 3.3                     | 8.8   | NW                      | SE    | -             | 1.6   | 2.5                  | 3.0   | 27.0                  | 33.0   |
| 3       | 20.5                 | 24.0  | 27.0                 | 36.0   | 30.0                | 36.0   | 22.0              | 24.0  | 47.0                  | 34.0  | 2.0                       | -     | 1.5                     | 3.8   | NE                      | SE    | 10.0          | -     | 1.5                  | 3.0   | 23.0                  | 35.0   |
| 4       | 24.5                 | 29.0  | 35.0                 | 39.0   | 29.0                | 28.0   | 21.0              | 22.0  | 46.0                  | 20.0  | 4.0                       | 4.0   | 1.9                     | 8.0   | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 28.0                  | 36.0   |
| 5       | 26.5                 | 32.0  | 38.0                 | 42.0   | 32.0                | 36.0   | 23.0              | 22.0  | 44.0                  | 26.0  | 2.0                       | 2.0   | 2.4                     | 8.8   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 27.0                  | 37.0   |
| 6       | 30.0                 | 35.0  | 40.0                 | 42.0   | 34.0                | 40.0   | 24.0              | 23.0  | 41.0                  | 20.0  | 4.0                       | 2.0   | 1.9                     | 8.7   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 35.5   |
| 7       | 29.0                 | 35.0  | 40.5                 | 42.0   | 36.0                | 42.0   | 23.0              | 26.0  | 30.0                  | 25.0  | 4.0                       | 4.0   | 1.9                     | 7.5   | SW                      | NW    | -             | -     | 2.5                  | 4.5   | 29.0                  | 27.0   |
| 8       | 28.5                 | 36.5  | 42.0                 | 42.5   | 36.0                | 40.0   | 23.0              | 24.0  | 30.0                  | 23.0  | 4.0                       | 4.0   | 0.9                     | 8.3   | SW                      | NW    | -             | -     | 2.5                  | 4.5   | 29.0                  | 35.0   |
| 9       | 28.0                 | 35.0  | 40.0                 | 44.0   | 34.0                | 40.0   | 21.0              | 23.0  | 27.0                  | 20.0  | -                         | 4.0   | 2.6                     | 5.1   | SE                      | NW    | -             | -     | 2.2                  | 4.5   | 27.0                  | 36.0   |
| 10      | 28.0                 | 34.0  | 41.5                 | 43.0   | 34.0                | 40.0   | 20.0              | 24.0  | 23.0                  | 23.0  | 2.0                       | 4.0   | 1.3                     | 8.7   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 27.0                  | 34.0   |
| 11      | 28.0                 | 34.0  | 40.0                 | 43.0   | 34.0                | 38.0   | 22.0              | 22.0  | 32.0                  | 20.0  | 2.0                       | 4.0   | 2.3                     | 6.3   | NE                      | SW    | -             | -     | 2.3                  | 4.5   | 28.0                  | 35.5   |
| 12      | 26.5                 | 31.0  | 37.0                 | 43.0   | 32.0                | 34.0   | 23.0              | 20.0  | 44.0                  | 23.0  | -                         | 8.0   | 5.8                     | 7.5   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 27.0                  | 34.0   |
| 13      | 25.0                 | 30.0  | 34.0                 | 40.0   | 30.0                | 40.0   | 20.0              | 23.0  | 36.0                  | 20.0  | 2.0                       | 4.0   | 3.0                     | 7.8   | SW                      | NW    | -             | -     | 2.0                  | 4.5   | 26.0                  | 37.0   |
| 14      | 28.0                 | 29.0  | 38.0                 | 39.0   | 30.0                | 38.0   | 22.0              | 24.0  | 47.0                  | 28.0  | 2.0                       | 6.0   | 4.6                     | 8.0   | NE                      | SE    | -             | -     | 2.2                  | 4.5   | 28.0                  | 35.0   |
| 15      | 22.0                 | 26.0  | 37.0                 | 41.0   | 27.0                | 38.0   | 22.0              | 24.0  | 50.0                  | 28.0  | 2.0                       | 4.0   | 1.1                     | 7.6   | NW                      | SW    | 2.8           | -     | 0.8                  | 4.0   | 24.0                  | 34.0   |
| 16      | 27.0                 | 31.0  | 37.0                 | 41.0   | 30.0                | 34.0   | 24.0              | 21.0  | 59.0                  | 27.0  | 2.0                       | 4.0   | 1.4                     | 7.1   | SW                      | NE    | -             | -     | 2.2                  | 3.0   | 28.0                  | 32.5   |
| 17      | 25.0                 | 33.0  | 34.0                 | 42.0   | 32.0                | 38.0   | 22.0              | 23.0  | 39.0                  | 24.0  | 2.0                       | 4.0   | 2.3                     | 6.0   | SW                      | SW    | -             | -     | 2.5                  | 4.0   | 29.0                  | 35.5   |
| 18      | 26.0                 | 33.0  | 42.5                 | 42.0   | 32.0                | 38.0   | 23.0              | 22.0  | 44.0                  | 20.0  | 4.0                       | 4.0   | 1.2                     | 10.3  | SW                      | SW    | -             | -     | 2.5                  | 4.0   | 27.5                  | 35.0   |
| 19      | 27.5                 | 34.0  | 40.0                 | 44.0   | 32.0                | 42.0   | 23.0              | 25.0  | 44.0                  | 22.0  | -                         | -     | 0.6                     | -     | NW                      | SW    | -             | -     | 2.5                  | 5.0   | 28.0                  | 38.0   |
| 20      | 29.0                 | 35.0  | 41.5                 | 43.0   | 34.0                | 38.0   | 23.0              | 23.0  | 36.0                  | 24.0  | 4.0                       | 2.0   | 1.2                     | 5.5   | SW                      | SE    | -             | -     | 3.0                  | 4.5   | 29.5                  | 37.0   |
| 21      | 28.0                 | 32.0  | 38.0                 | 40.0   | 32.0                | 40.0   | 23.0              | 24.0  | 44.0                  | 23.0  | -                         | 2.0   | 0.7                     | 2.9   | NE                      | SW    | -             | -     | 2.5                  | 4.5   | 29.0                  | 37.0   |
| 22      | 29.5                 | 26.0  | 40.0                 | 43.0   | 34.0                | 32.0   | 25.0              | 23.0  | 46.0                  | 44.0  | 2.0                       | 4.0   | 1.3                     | 4.9   | SW                      | SW    | -             | 4.4   | 2.8                  | 3.5   | 30.0                  | 33.5   |
| 23      | 26.0                 | 31.0  | 31.0                 | 43.0   | 32.0                | 40.0   | 25.0              | 24.0  | 55.0                  | 23.0  | 2.0                       | -     | 0.8                     | 3.7   | SW                      | NW    | -             | -     | 2.0                  | 4.5   | 27.0                  | 38.0   |
| 24      | 30.0                 | 34.0  | 41.5                 | 42.0   | 34.0                | 40.0   | 24.0              | 24.0  | 41.0                  | 23.0  | 2.0                       | 4.0   | 2.9                     | 6.2   | SW                      | SE    | -             | -     | 3.0                  | 4.5   | 29.5                  | 36.5   |
| 25      | 28.0                 | 35.0  | 39.0                 | 42.5   | 34.0                | 42.0   | 24.0              | 25.0  | 41.0                  | 22.0  | 4.0                       | 2.0   | 6.3                     | 6.0   | SE                      | SW    | -             | -     | 3.0                  | 4.5   | 30.0                  | 38.0   |
| 26      | 28.5                 | 33.0  | 41.0                 | 42.0   | 34.0                | 40.0   | 24.0              | 26.0  | 41.0                  | 30.0  | 4.0                       | 2.0   | 3.7                     | 4.7   | NE                      | NE    | -             | -     | 2.5                  | 4.5   | 28.5                  | 38.0   |
| 27      | 28.0                 | 31.0  | 41.5                 | 42.0   | 32.0                | 38.0   | 23.0              | 23.0  | 44.0                  | 24.0  | 4.0                       | 4.0   | 2.3                     | 7.7   | SW                      | SW    | -             | -     | 2.5                  | 4.0   | 28.5                  | 36.0   |
| 28      | 29.0                 | 30.0  | 39.0                 | 43.0   | 34.0                | 34.0   | 25.0              | 23.0  | 46.0                  | 36.0  | 4.0                       | 4.0   | 1.6                     | 9.0   | SW                      | SW    | -             | 4.0   | 3.0                  | 4.0   | 30.0                  | 35.0   |
| 29      | 29.0                 | 34.0  | 35.0                 | 44.0   | 34.0                | 38.0   | 24.0              | 23.0  | 41.0                  | 24.0  | 4.0                       | 2.0   | 1.9                     | 6.7   | SE                      | SE    | -             | -     | 2.0                  | 4.5   | 29.5                  | 37.0   |
| 30      | 29.0                 | 33.0  | 38.0                 | 43.0   | 32.0                | 42.0   | 24.0              | 26.0  | 49.0                  | 25.0  | 2.0                       | -     | 4.4                     | 5.1   | SE                      | SW    | -             | -     | 2.0                  | 4.5   | 29.0                  | 38.0   |
| 31      | 26.0                 |       | 41.0                 |        | 30.0                |        | 24.0              |       | 59.0                  |       | 4.0                       |       | 2.3                     |       | SE                      |       | 1.6           |       | -                    |       | 28.0                  |        |
| Total   | 842.0                | 995.5 | 1183.5               | 1298.0 | 1004.0              | 1167.0 | 712.0             | 725.0 | 1314.0                | 825.0 | 78.0                      | 98.0  | 71.0                    | 202.9 |                         |       | 14.4          | 10.0  | 69.5                 | 127.5 | 865.0                 | 1099.5 |
| Average | 27.2                 | 32.1  | 38.2                 | 41.9   | 32.4                | 37.6   | 23.0              | 23.4  | 42.4                  | 26.6  | 2.5                       | 3.2   | 2.3                     | 6.5   |                         |       |               |       |                      |       | 27.9                  | 35.5   |
|         | 29.6                 |       | 40.0                 |        | 35.0                |        | 23.2              |       | 34.5                  |       | 2.8                       |       | 4.4                     |       |                         |       | 24.4          |       | 197.0                |       | 31.7                  |        |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Jun-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 33.0  |                      | 46.0   |                     | 36.0  |                   | 27.0  |                       | 48.0   |                           | 4.0   |                         | 5.6   |                         | SW    |               | -     |                      | 5.0   |                       | ..     |
| 1       | 30.0                 | 35.0  | 41.0                 | 44.0   | 34.0                | 36.0  | 26.0              | 27.0  | 51.0                  | 48.0   | 4.0                       | 8.0   | 1.9                     | 6.1   | SE                      | SW    | -             | -     | 3.0                  | 4.2   | 29.5                  | 34.5   |
| 2       | 30.0                 | 34.0  | 34.0                 | 42.0   | 32.0                | 36.0  | 25.0              | 26.0  | 55.0                  | 43.0   | 6.0                       | 2.0   | 2.5                     | 5.8   | SW                      | NW    | -             | -     | 3.2                  | 4.5   | 29.0                  | 35.0   |
| 3       | 30.0                 | 36.0  | 43.0                 | 45.2   | 34.0                | 40.0  | 26.0              | 27.0  | 51.0                  | 34.0   | 4.0                       | 4.0   | 2.0                     | 4.8   | SE                      | SW    | -             | -     | 3.2                  | 5.0   | 30.0                  | 37.0   |
| 4       | 31.0                 | 35.5  | 43.0                 | 44.5   | 34.0                | 36.0  | 27.0              | 28.0  | 56.0                  | 53.0   | 8.0                       | 6.0   | 4.0                     | 7.7   | SW                      | SW    | -             | -     | 4.0                  | 5.0   | 29.2                  | 34.5   |
| 5       | 32.0                 | 36.0  | 40.5                 | 46.0   | 34.0                | 38.0  | 25.0              | 28.0  | 48.0                  | 45.0   | 8.0                       | 6.0   | 3.2                     | 5.6   | SW                      | NW    | -             | -     | 3.2                  | 5.0   | 29.0                  | 35.5   |
| 6       | 28.5                 | 33.0  | 41.0                 | 42.0   | 32.0                | 34.0  | 26.0              | 28.0  | 61.0                  | 62.0   | 2.0                       | 6.0   | 4.1                     | 4.8   | NE                      | NW    | -             | -     | 3.2                  | 4.2   | 28.5                  | 32.5   |
| 7       | 28.5                 | 34.0  | 46.5                 | 42.0   | 32.0                | 36.0  | 26.0              | 28.0  | 61.0                  | 53.0   | 4.0                       | 6.0   | 2.7                     | 4.4   | NE                      | NW    | -             | -     | 3.0                  | 4.0   | 28.5                  | 35.5   |
| 8       | 28.0                 | 34.0  | 39.5                 | 41.0   | 32.0                | 36.0  | 26.0              | 27.0  | 61.0                  | 48.0   | 2.0                       | 4.0   | 3.4                     | 4.9   | SE                      | SE    | -             | -     | 3.0                  | 4.0   | 28.5                  | 35.0   |
| 9       | 29.0                 | 31.0  | 40.0                 | 42.0   | 34.0                | 36.0  | 26.0              | 27.0  | 51.0                  | 48.0   | 2.0                       | 8.0   | 1.9                     | 5.2   | SW                      | NE    | -             | -     | 3.0                  | 4.0   | 30.0                  | 33.0   |
| 10      | 29.5                 | 32.0  | 33.0                 | 41.0   | 30.0                | 32.0  | 25.0              | 26.0  | 65.0                  | 61.0   | 4.0                       | 4.0   | 2.6                     | 4.1   | SE                      | NW    | -             | -     | 2.0                  | 3.0   | 28.0                  | 33.0   |
| 11      | 28.0                 | 31.0  | 39.5                 | 41.0   | 30.0                | 32.0  | 26.0              | 27.0  | 72.0                  | 67.0   | 4.0                       | 6.0   | 3.1                     | 5.6   | SW                      | NE    | -             | 51.4  | 2.0                  | 3.0   | 28.0                  | 32.5   |
| 12      | 27.5                 | 28.0  | 33.0                 | 40.0   | 29.5                | 30.0  | 26.5              | 27.0  | 74.0                  | 78.0   | 4.0                       | 4.0   | 2.6                     | 6.3   | SW                      | SW    | -             | -     | 2.0                  | 0.2   | 27.5                  | 28.5   |
| 13      | 24.0                 | 28.0  | 28.0                 | 36.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 4.0                       | 4.0   | 1.1                     | 5.6   | SE                      | NE    | 3.4           | -     | 0.1                  | 2.0   | 25.5                  | 34.0   |
| 14      | 25.0                 | 28.0  | 30.0                 | 38.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 4.0                       | 4.0   | 1.5                     | 4.9   | SW                      | NE    | -             | -     | 2.0                  | 3.0   | 27.0                  | 34.0   |
| 15      | 28.0                 | 33.0  | 39.0                 | 42.0   | 32.0                | 34.0  | 25.0              | 26.0  | 55.0                  | 51.0   | 4.0                       | 4.0   | 1.1                     | 3.6   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 29.2                  | 34.8   |
| 16      | 25.5                 | 28.5  | 33.0                 | 39.0   | 29.0                | 34.0  | 25.0              | 28.0  | 78.0                  | 62.0   | 6.0                       | 6.0   | 4.2                     | 3.5   | SE                      | SW    | 4.0           | -     | 0.1                  | 2.2   | 27.0                  | 35.0   |
| 17      | 27.0                 | 32.0  | 37.0                 | 39.5   | 32.0                | 34.0  | 26.0              | 27.0  | 61.0                  | 56.0   | 6.0                       | 4.0   | 2.0                     | 4.2   | NW                      | NE    | -             | -     | 2.0                  | 3.0   | 28.0                  | 35.5   |
| 18      | 28.0                 | 29.0  | 36.0                 | 41.5   | 30.0                | 36.0  | 26.0              | 28.0  | 72.0                  | 53.0   | 6.0                       | 2.0   | 1.8                     | 4.8   | SW                      | NE    | -             | 0.8   | 2.0                  | 3.0   | 28.5                  | 35.5   |
| 19      | 27.0                 | 31.0  | 38.0                 | 40.0   | 29.0                | 34.0  | 26.0              | 27.0  | 78.0                  | 56.0   | 2.0                       | 2.0   | 2.4                     | 2.9   | SW                      | NW    | 0.6           | -     | 1.0                  | 2.2   | 28.5                  | 35.5   |
| 20      | 27.0                 | 31.0  | 37.0                 | 41.0   | 30.0                | 34.0  | 25.0              | 27.0  | 65.0                  | 56.0   | 2.0                       | 4.0   | 3.1                     | 3.5   | NE                      | NE    | -             | 23.6  | 2.0                  | 2.5   | 28.0                  | 36.5   |
| 21      | 25.5                 | 28.0  | 35.5                 | 41.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | 6.0   | 2.2                     | 4.2   | SW                      | NW    | 1.2           | -     | 1.0                  | 0.1   | 28.0                  | 35.0   |
| 22      | 25.0                 | 28.0  | 37.0                 | 38.0   | 29.0                | 32.0  | 26.0              | 27.0  | 78.0                  | 67.0   | 4.0                       | 4.0   | 1.9                     | 4.2   | SW                      | NE    | 3.4           | -     | 0.1                  | 2.2   | 27.0                  | 30.0   |
| 23      | 26.0                 | 28.0  | 36.0                 | 38.0   | 28.0                | 30.0  | 26.0              | 27.0  | 5.0                   | 78.0   | 4.0                       | 4.0   | 1.6                     | 4.6   | SW                      | NW    | 0.6           | -     | 1.0                  | 2.5   | 26.5                  | 33.5   |
| 24      | 26.0                 | 30.0  | 37.0                 | 40.0   | 30.0                | 32.0  | 26.0              | 28.0  | 72.0                  | 73.0   | 2.0                       | 4.0   | 0.7                     | 3.2   | SSW                     | SE    | -             | -     | 2.0                  | 3.0   | 27.0                  | 35.0   |
| 25      | 25.0                 | 30.0  | 33.5                 | 39.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 6.0                       | 4.0   | 2.8                     | 4.2   | SW                      | NE    | -             | -     | 2.0                  | 3.0   | 28.5                  | 35.0   |
| 26      | 26.5                 | 26.0  | 33.0                 | 34.0   | 26.0                | 30.0  | 24.5              | 27.0  | 83.0                  | 78.0   | 2.0                       | 2.0   | 1.7                     | 5.4   | NE                      | SE    | 31.6          | -     | 0.1                  | 2.0   | 27.0                  | 34.0   |
| 27      | 26.0                 | 27.0  | 31.0                 | 33.0   | 26.5                | 30.0  | 24.5              | 26.0  | 80.0                  | 72.0   | 2.0                       | -     | 1.7                     | 1.4   | SSW                     | NE    | 0.2           | 1.0   | 1.5                  | 2.0   | 26.0                  | 33.0   |
| 28      | 25.0                 | 27.0  | 30.0                 | 31.0   | 26.5                | 28.0  | 24.0              | 26.0  | -                     | 85.0   | 4.0                       | 4.0   | 2.1                     | 4.2   | SW                      | NW    | 14.4          | -     | 0.0                  | -     | 27.5                  | 31.0   |
| 29      | 25.0                 | 27.5  | 27.0                 | 30.5   | 26.0                | 29.5  | 24.0              | 26.5  | 84.0                  | 74.0   | 4.0                       | 2.0   | 3.0                     | 5.0   | SSW                     | NE    | 5.6           | 0.2   | 0.1                  | 1.0   | 26.0                  | 28.5   |
| 30      | 27.5                 |       | 29.5                 |        | 27.5                |       | 26.0              |       | 88.0                  |        | 6.0                       |       | 2.7                     |       | SE                      |       | 0.2           |       | 1.0                  |       | 26.5                  |        |
| Total   | 821.0                | 924.5 | 1081.5               | 1198.2 | 899.0               | 995.5 | 766.5             | 809.5 | 1943.0                | 1849.0 | 122.0                     | 128.0 | 71.4                    | 139.9 |                         |       | 65.2          | 77.0  | 54.8                 | 87.8  | 837.4                 | 982.3  |
| Average | 27.4                 | 30.8  | 36.1                 | 39.9   | 30.0                | 33.2  | 25.6              | 27.0  | 64.8                  | 61.6   | 4.1                       | 4.3   | 2.4                     | 4.7   |                         |       |               |       |                      |       | 27.9                  | 33.9 * |
|         | 29.1                 |       | 38.0                 |        | 31.6                |       | 26.3              |       | 63.2                  |        | 4.2                       |       | 3.5                     |       |                         |       | 142.2         |       | 142.6                |       | 30.9 *                |        |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       | - 0.0 |  | . N.A. |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|-------|--|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |       |  |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |       |  |        |
| LPOPM   |                      | 28.0  |                      | 31.0  |                     | 29.5  |                   | 28.0  |                       | 87.0   |                           | 2.0   |                         | 3.9   |                         | SE    |               | ..    |                      | 1.5   |                       | 30.0  |       |  |        |
| 1       | 26.0                 | 27.0  | 29.0                 | 30.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 4.0   | 2.5                     | 4.4   | NE                      | SW    | 1.0           | -     | -                    | 1.0   | 25.5                  | 29.2  |       |  |        |
| 2       | 25.0                 | 27.0  | 28.5                 | 30.0  | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | 4.0                       | 4.0   | 2.8                     | 5.9   | SW                      | NW    | -             | 2.8   | 1.0                  | 2.0   | 26.0                  | 29.0  |       |  |        |
| 3       | 25.0                 | 26.0  | 28.0                 | 29.0  | 25.0                | 27.0  | 23.0              | 25.0  | 84.0                  | 84.0   | 2.0                       | 6.0   | 3.7                     | 3.3   | SE                      | SW    | 50.6          | 0.2   | 1.6                  | 0.8   | 24.5                  | 27.0  |       |  |        |
| 4       | 25.5                 | 26.5  | 27.5                 | 29.0  | 26.0                | 27.5  | 24.0              | 26.0  | 84.0                  | 88.0   | 6.0                       | 4.0   | 4.8                     | 7.4   | NW                      | SW    | 0.8           | 5.6   | 0.4                  | 0.8   | 25.0                  | 27.3  |       |  |        |
| 5       | 24.5                 | 27.0  | 28.0                 | 32.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 4.6                     | 6.3   | SW                      | NE    | -             | -     | 0.5                  | 1.0   | 24.0                  | 30.0  |       |  |        |
| 6       | 24.5                 | 27.0  | 28.0                 | 33.0  | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | 4.0                       | -     | 1.9                     | 4.9   | NE                      | NW    | 16.4          | -     | 0.5                  | 2.0   | 25.6                  | 33.0  |       |  |        |
| 7       | 27.0                 | 30.0  | 30.0                 | 35.0  | 29.0                | 32.0  | 27.0              | 27.5  | 85.0                  | 64.0   | 4.0                       | 4.0   | 0.8                     | 3.4   | NW                      | SW    | -             | 19.0  | 1.5                  | 2.5   | 28.0                  | 35.0  |       |  |        |
| 8       | 27.0                 | 28.0  | 30.0                 | 38.0  | 30.0                | 30.0  | 26.0              | 27.0  | 72.0                  | 78.0   | 2.0                       | 4.0   | 1.1                     | 3.0   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 28.5                  | 31.8  |       |  |        |
| 9       | 25.0                 | 28.0  | 29.0                 | 34.0  | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 2.3                     | 4.7   | SW                      | NW    | -             | 16.6  | 1.0                  | 2.0   | 27.9                  | 30.8  |       |  |        |
| 10      | 24.0                 | 27.0  | 28.0                 | 29.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 84.0   | 6.0                       | 2.0   | 3.3                     | 3.2   | SE                      | SW    | 13.6          | 1.8   | 1.6                  | 0.6   | 24.5                  | 25.8  |       |  |        |
| 11      | 24.0                 | 25.0  | 26.0                 | 28.0  | 25.0                | 26.5  | 24.0              | 25.0  | 92.0                  | 88.0   | 4.0                       | 2.0   | 1.3                     | 5.0   | SW                      | NW    | 3.2           | -     | 1.2                  | 0.8   | 24.0                  | 27.5  |       |  |        |
| 12      | 24.0                 | 27.0  | 27.0                 | 31.0  | 25.5                | 29.0  | 24.5              | 28.0  | 88.0                  | 92.0   | 2.0                       | 2.0   | 0.8                     | 4.2   | NW                      | SE    | 9.6           | 0.2   | 1.0                  | 2.0   | 24.5                  | 31.5  |       |  |        |
| 13      | 25.0                 | 26.0  | 30.0                 | 31.0  | 25.5                | 29.5  | 24.0              | 27.0  | 88.0                  | 81.0   | 4.0                       | 6.0   | 1.6                     | 5.7   | SW                      | NW    | 5.0           | 1.6   | 1.0                  | 2.0   | 25.5                  | 31.3  |       |  |        |
| 14      | 25.0                 | 26.0  | 27.0                 | 31.0  | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | 4.0                       | 4.0   | 2.0                     | 4.0   | SW                      | SW    | -             | -     | 1.0                  | -     | 25.7                  | 31.0  |       |  |        |
| 15      | 25.5                 | 27.0  | 30.0                 | 33.0  | 26.0                | 30.0  | 25.0              | 28.0  | 92.0                  | 85.0   | 6.0                       | 6.0   | 1.0                     | 2.2   | SW                      | NW    | -             | 5.2   | 1.0                  | 1.5   | 25.8                  | 34.0  |       |  |        |
| 16      | 25.0                 | 26.0  | 30.0                 | 32.0  | 25.0                | 29.0  | 24.0              | 28.0  | 92.0                  | 92.0   | -                         | 2.0   | 2.1                     | 2.8   | SSW                     | NE    | 22.0          | 16.2  | 1.0                  | 1.2   | 25.5                  | 32.0  |       |  |        |
| 17      | 26.0                 | 28.0  | 30.0                 | 35.0  | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.2                     | 1.7   | SE                      | SW    | 0.4           | 0.6   | 1.0                  | 1.2   | 27.5                  | 32.5  |       |  |        |
| 18      | 25.0                 | 29.0  | 29.0                 | 34.0  | 26.0                | 29.0  | 25.0              | 28.0  | 92.0                  | 92.0   | 4.0                       | 2.0   | 0.7                     | 8.2   | NE                      | SE    | 16.8          | 0.2   | 1.0                  | 1.0   | 27.0                  | 32.5  |       |  |        |
| 19      | 25.0                 | 30.0  | 30.0                 | 34.0  | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 4.0                       | 4.0   | 0.8                     | 3.1   | SE                      | SW    | 10.4          | 0.4   | 1.0                  | 2.0   | 27.5                  | 33.2  |       |  |        |
| 20      | 25.0                 | 27.0  | 29.0                 | 30.0  | 26.5                | 28.0  | 24.0              | 26.0  | 82.0                  | 85.0   | 4.0                       | 4.0   | 3.9                     | 5.9   | NW                      | SE    | 2.8           | 0.2   | 0.8                  | 1.0   | 26.0                  | 27.5  |       |  |        |
| 21      | 26.0                 | 27.0  | 28.0                 | 31.0  | 26.5                | 29.0  | 25.0              | 28.0  | 88.0                  | 92.0   | 4.0                       | 2.0   | 3.2                     | 7.0   | SW                      | SW    | 9.4           | -     | 1.0                  | 1.0   | 25.0                  | 30.5  |       |  |        |
| 22      | 26.0                 | 28.5  | 29.0                 | 31.0  | 28.0                | 29.0  | 27.0              | 27.5  | 92.0                  | 81.0   | 2.0                       | 2.0   | 1.4                     | 4.2   | SW                      | SE    | -             | 0.4   | 1.0                  | 1.0   | 26.0                  | 29.5  |       |  |        |
| 23      | 25.0                 | 27.0  | 29.0                 | 30.0  | 25.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 1.9                     | 4.2   | NW                      | SE    | 3.8           | -     | 0.8                  | 0.5   | 25.5                  | 27.0  |       |  |        |
| 24      | 24.0                 | 25.0  | 28.0                 | 29.0  | 25.0                | 27.0  | 24.0              | 26.0  | 92.0                  | 92.0   | 4.0                       | 2.0   | 3.4                     | 4.7   | SW                      | NW    | 4.8           | 0.8   | 0.8                  | 0.1   | 24.5                  | 27.5  |       |  |        |
| 25      | 24.0                 | 25.0  | 28.0                 | 31.0  | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | 6.0                       | 2.0   | 2.7                     | 4.6   | SW                      | SW    | -             | 1.4   | 1.0                  | -     | 24.5                  | 30.0  |       |  |        |
| 26      | 23.0                 | 25.0  | 27.0                 | 31.0  | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | 10.0                      | 2.0   | 3.7                     | 6.9   | SE                      | SW    | -             | 0.4   | 1.0                  | 0.4   | 24.0                  | 25.5  |       |  |        |
| 27      | 24.0                 | 25.5  | 26.0                 | 28.0  | 25.0                | 27.0  | 23.0              | 26.0  | 84.0                  | 92.0   | 4.0                       | 4.0   | 5.8                     | 5.3   | SE                      | NW    | 15.0          | -     | 1.0                  | 0.6   | 24.5                  | 26.8  |       |  |        |
| 28      | 25.0                 | 26.0  | 27.0                 | 31.0  | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | 4.0                       | 4.0   | 2.0                     | 5.5   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 25.0                  | 30.5  |       |  |        |
| 29      | 25.5                 | 28.0  | 29.5                 | 32.0  | 27.5                | 29.5  | 26.0              | 27.5  | 88.0                  | 81.0   | 2.0                       | 4.0   | 0.8                     | 3.4   | SW                      | NW    | -             | 0.2   | 1.0                  | 1.5   | 26.5                  | 32.5  |       |  |        |
| 30      | 25.5                 | 28.0  | 30.0                 | 33.0  | 27.5                | 28.5  | 26.5              | 27.5  | 88.0                  | 88.0   | 2.0                       | 4.0   | 1.4                     | 0.8   | SE                      | NW    | -             | -     | 1.0                  | 1.0   | 26.5                  | 32.5  |       |  |        |
| 31      | 25.5                 |       | 29.5                 |       | 26.5                |       | 25.0              |       | 88.0                  |        | 2.0                       |       | 0.6                     |       | SE                      |       | 1.4           |       | 0.4                  |       | 26.2                  |       |       |  |        |
| Total   | 776.5                | 837.5 | 885.0                | 976.0 | 818.5               | 881.0 | 776.0             | 832.0 | 2753.0                | 2687.0 | 110.0                     | 94.0  | 69.0                    | 139.5 |                         |       | 187.0         | 73.8  | 30.1                 | 36.0  | 796.7                 | 934.2 |       |  |        |
| Average | 25.0                 | 27.0  | 28.5                 | 31.5  | 26.4                | 28.4  | 25.0              | 26.8  | 88.8                  | 86.7   | 3.5                       | 3.0   | 2.2                     | 4.5   |                         |       |               |       |                      |       | 25.7                  | 30.1  |       |  |        |
|         | 26.0                 |       | 30.0                 |       | 27.4                |       | 25.9              |       | 87.7                  |        | 3.3                       |       | 3.4                     |       |                         |       | 260.8 *       |       | 66.1                 |       | 27.9                  |       |       |  |        |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Aug-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPM     |                      | 27.0  |                      | 34.0  |                     | 29.0  |                   | 28.0  |                       | 92.0   |                           | 2.0   |                         | 3.3   |                         | SW    |               | ..    |                      | 1.5   |                       | ..      |
| 1       | 25.5                 | 27.0  | 30.0                 | 34.0  | 27.5                | 30.0  | 26.0              | 28.0  | 88.0                  | 85.0   | 4.0                       | 6.0   | 0.5                     | 5.1   | SW                      | SW    | -             | 1.8   | 1.0                  | 1.5   | 27.5                  | 35.0    |
| 2       | 26.0                 | 28.0  | 32.0                 | 34.0  | 29.0                | 30.0  | 28.0              | 29.0  | 92.0                  | 93.0   | 2.0                       | 2.0   | 1.5                     | 2.9   | SW                      | NW    | -             | -     | 1.0                  | 0.5   | 28.0                  | 33.0    |
| 3       | 25.0                 | 27.0  | 31.0                 | 33.0  | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | 4.0                       | 4.0   | 1.0                     | 4.9   | SE                      | SW    | 0.8           | -     | 1.0                  | 2.0   | 27.0                  | 34.0    |
| 4       | 26.5                 | 28.0  | 31.0                 | 32.0  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | 4.0                       | 6.0   | 2.3                     | 4.0   | NW                      | SW    | -             | -     | 1.5                  | 2.0   | 27.5                  | 49.5    |
| 5       | 26.0                 | 26.5  | 29.0                 | 30.0  | 26.0                | 27.5  | 25.0              | 26.0  | 92.0                  | 88.0   | 2.0                       | 2.0   | 1.1                     | 1.8   | SW                      | NE    | 6.6           | 0.8   | 1.0                  | 1.5   | 26.0                  | 29.5    |
| 6       | 25.0                 | 27.0  | 27.0                 | 31.0  | 27.5                | 28.5  | 26.5              | 27.5  | 88.0                  | 88.0   | 2.0                       | 2.0   | 0.2                     | 0.5   | SE                      | SSW   | 2.2           | 2.6   | 0.2                  | -     | 26.4                  | 27.0    |
| 7       | 25.0                 | 27.5  | 29.0                 | 30.5  | 26.5                | 27.5  | 25.5              | 26.5  | 88.0                  | 88.0   | 2.0                       | 2.0   | 1.0                     | 2.8   | NW                      | SSW   | 15.0          | -     | 1.0                  | 0.6   | 26.0                  | 28.5    |
| 8       | 26.0                 | 27.0  | 27.5                 | 31.0  | 27.0                | 28.5  | 25.0              | 27.5  | 84.0                  | 88.0   | 2.0                       | 4.0   | 0.6                     | 3.4   | SE                      | NW    | -             | -     | 1.0                  | 1.4   | 26.0                  | 31.5    |
| 9       | 25.0                 | 26.0  | 28.0                 | 31.0  | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | 4.0   | 2.0                     | 4.1   | SW                      | SE    | 0.8           | 1.4   | 0.5                  | 1.0   | 25.5                  | 31.5    |
| 10      | 25.0                 | 26.0  | 27.0                 | 28.0  | 25.5                | 26.0  | 25.0              | 25.5  | 88.0                  | 96.0   | 6.0                       | 2.0   | 3.5                     | 4.6   | NE                      | NW    | 0.8           | -     | -                    | 0.4   | 25.0                  | 26.8    |
| 11      | 24.0                 | 25.0  | 26.5                 | 31.5  | 26.0                | 28.5  | 25.5              | 27.0  | 96.0                  | 88.0   | 8.0                       | 2.0   | 2.0                     | 5.3   | NW                      | SW    | -             | 0.6   | 1.0                  | 1.5   | 25.0                  | 29.0    |
| 12      | 26.0                 | 28.0  | 29.0                 | 32.0  | 26.0                | 29.0  | 25.0              | 27.0  | 62.0                  | 85.0   | 4.0                       | 2.0   | 3.8                     | 5.1   | SW                      | NW    | -             | -     | 1.0                  | 1.0   | 26.5                  | 31.5    |
| 13      | 24.5                 | 27.0  | 29.0                 | 33.0  | 28.0                | 30.0  | 27.5              | 28.0  | 88.0                  | 85.0   | 4.0                       | 2.0   | 2.5                     | 3.7   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 31.5    |
| 14      | 27.0                 | 28.0  | 30.0                 | 34.0  | 27.0                | 30.0  | 26.5              | 28.0  | 88.0                  | 85.0   | 4.0                       | -     | 2.6                     | 3.4   | SW                      | SE    | 0.2           | -     | 1.0                  | 2.0   | 26.5                  | 33.5    |
| 15      | 26.0                 | 28.0  | 31.0                 | 34.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | 4.0                       | 4.0   | 1.3                     | 2.8   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 34.5    |
| 16      | 26.0                 | 27.0  | 30.0                 | 33.0  | 27.0                | 30.0  | 26.0              | 29.0  | 92.0                  | 93.0   | 2.0                       | -     | 1.0                     | 1.3   | SE                      | NW    | 1.0           | 25.4  | 1.0                  | 1.0   | 27.5                  | 33.0    |
| 17      | 26.0                 | 28.0  | 30.0                 | 31.0  | 27.0                | 27.5  | 25.0              | 26.0  | 84.0                  | 92.0   | -                         | -     | 0.9                     | 1.9   | SE                      | SW    | 1.0           | -     | -                    | 1.0   | 26.5                  | 27.5    |
| 18      | 26.0                 | 27.0  | 27.5                 | 31.0  | 26.0                | 29.0  | 25.0              | 28.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 0.9                     | 3.3   | SW                      | SE    | -             | 1.0   | 1.0                  | 1.5   | 25.5                  | 32.0    |
| 19      | 25.0                 | 26.0  | 29.0                 | 31.0  | 27.0                | 28.0  | 26.5              | 27.0  | 96.0                  | 92.0   | 6.0                       | 4.0   | 2.8                     | 7.1   | SE                      | NE    | 2.0           | -     | 1.0                  | -     | 26.5                  | 29.5    |
| 20      | 25.5                 | 26.0  | 28.5                 | 31.0  | 26.5                | 29.5  | 25.5              | 26.5  | 88.0                  | 74.0   | 8.0                       | 8.0   | 6.0                     | 9.2   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 25.5                  | 31.5    |
| 21      | 25.0                 | 27.5  | 30.0                 | 31.0  | 27.0                | 29.5  | 26.5              | 27.5  | 88.0                  | 81.0   | 4.0                       | -     | 3.7                     | 2.8   | SE                      | SW    | 14.6          | -     | 1.5                  | 1.0   | 25.5                  | 31.5    |
| 22      | 25.0                 | 27.0  | 29.0                 | 33.0  | 27.0                | 30.0  | 25.0              | 28.0  | 88.0                  | 85.0   | -                         | 2.0   | 0.3                     | 3.2   | SW                      | NE    | -             | -     | 1.0                  | 1.5   | 26.0                  | 33.5    |
| 23      | 25.5                 | 26.0  | 31.0                 | 33.0  | 29.0                | 32.0  | 28.0              | 30.0  | 92.0                  | 86.0   | 2.0                       | -     | 0.2                     | 3.2   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 35.0    |
| 24      | 24.0                 | 27.5  | 30.0                 | 34.0  | 27.5                | 29.0  | 26.5              | 28.0  | 88.0                  | 92.0   | 2.0                       | -     | 1.3                     | 1.1   | SE                      | SW    | 20.4          | 21.4  | 1.4                  | 1.0   | 26.5                  | 34.5    |
| 25      | 25.0                 | 27.0  | 31.0                 | 34.0  | 27.5                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | 2.0                       | 6.0   | 0.7                     | 2.5   | SE                      | NW    | 26.0          | -     | 1.0                  | 1.0   | 27.0                  | 31.0    |
| 26      | 25.0                 | 26.0  | 30.0                 | 33.0  | 28.0                | 29.0  | 27.0              | 27.5  | 92.0                  | 81.0   | 2.0                       | -     | 0.5                     | 1.3   | NE                      | SW    | 1.6           | 0.4   | 1.0                  | 1.5   | 26.5                  | 33.5    |
| 27      | 26.0                 | 27.5  | 30.0                 | 33.0  | 28.0                | 29.0  | 26.5              | 27.5  | 81.0                  | 81.0   | 2.0                       | 2.0   | 0.2                     | 1.4   | NE                      | SSW   | -             | 16.4  | 1.0                  | 1.0   | 28.0                  | 31.0    |
| 28      | 27.0                 | 28.0  | 30.0                 | 31.5  | 28.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 4.0                       | 6.0   | 2.1                     | 3.9   | NE                      | NE    | -             | 0.2   | 1.0                  | 1.4   | 26.5                  | 29.5    |
| 29      | 24.0                 | 27.0  | 30.0                 | 31.0  | 27.0                | 29.0  | 25.0              | 27.0  | 96.0                  | 92.0   | 8.0                       | 6.0   | 6.0                     | 6.9   | SE                      | NE    | 9.6           | -     | 0.6                  | 1.0   | 25.0                  | 31.0    |
| 30      | 26.0                 | 27.5  | 29.0                 | 32.5  | 27.5                | 28.0  | 26.0              | 27.5  | 92.0                  | 75.0   | 2.0                       | 2.0   | 3.1                     | 2.0   | SE                      | SE    | 1.0           | -     | 1.0                  | 1.0   | 26.3                  | 32.5    |
| 31      | 27.0                 |       | 30.0                 |       | 27.5                |       | 27.0              |       | 92.0                  |        | -                         |       | 0.1                     |       | SW                      |       | -             |       | 1.0                  |       | 28.0                  |         |
| Total   | 790.5                | 838.0 | 912.0                | 996.0 | 842.5               | 899.0 | 809.0             | 854.5 | 2767.0                | 2716.0 | 100.0                     | 84.0  | 55.8                    | 108.7 |                         |       | 103.6         | 72.0  | 28.7                 | 38.3  | 819.7                 | 962.8 * |
| Average | 25.5                 | 27.0  | 29.4                 | 32.1  | 27.2                | 29.0  | 26.1              | 27.6  | 89.3                  | 87.6   | 3.2                       | 2.7   | 1.8                     | 3.5   |                         |       |               |       |                      |       | 26.4                  | 32.1 *  |
|         | 26.3                 |       | 30.8                 |       | 28.1                |       | 26.8              |       | 88.4                  |        | 3.0                       |       | 2.7                     |       |                         |       | 175.6 *       |       | 67.0                 |       | 29.3 *                |         |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

-0.0 N.A.

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       | - 0.0 |  |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|-------|--|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |       |  |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |       |  |
| LPoPM   |                      | 28.0  |                      | 31.0  |                     | 29.0  |                   | 27.5  |                       | 81.0   |                           | 4.0   |                         | 5.1   |                         | NE    |               | ..    |                      | 1.5   |                       | 26.0  |       |  |
| 1       | 25.0                 | 26.0  | 29.0                 | 34.0  | 27.0                | 28.0  | 26.5              | 27.0  | 88.0                  | 92.0   | 4.0                       | 2.0   | 0.9                     | 1.7   | SW                      | SW    | -             | 1.0   | 1.0                  | 1.5   | 26.5                  | 31.5  |       |  |
| 2       | 25.0                 | 27.0  | 27.5                 | 32.0  | 26.5                | 27.0  | 25.5              | 26.5  | 88.0                  | 88.0   | 2.0                       | 4.0   | 0.2                     | 1.6   | SE                      | SE    | 0.4           | -     | 1.0                  | 0.5   | 27.5                  | 30.0  |       |  |
| 3       | 25.0                 | 28.0  | 28.0                 | 34.0  | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.2                     | 3.1   | SW                      | SE    | -             | 61.4  | 1.0                  | 1.5   | 26.2                  | 34.0  |       |  |
| 4       | 27.0                 | 28.0  | 31.0                 | 33.0  | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | 4.0                       | 4.0   | 0.5                     | 1.6   | SE                      | NE    | -             | -     | 1.0                  | 1.4   | 27.2                  | 28.0  |       |  |
| 5       | 26.0                 | 28.0  | 30.0                 | 33.5  | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | 2.0   | 0.3                     | 0.7   | SW                      | SW    | 1.6           | 0.2   | 1.0                  | 1.5   | 27.0                  | 34.5  |       |  |
| 6       | 27.0                 | 28.0  | 30.0                 | 36.0  | 29.0                | 27.0  | 28.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 8.0   | 0.8                     | 2.8   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 27.5                  | 32.5  |       |  |
| 7       | 25.0                 | 26.0  | 31.0                 | 34.0  | 28.0                | 30.0  | 27.0              | 29.0  | 93.0                  | 93.0   | -                         | 2.0   | 0.2                     | 1.1   | SW                      | NW    | -             | -     | 1.0                  | 1.5   | 26.5                  | 34.5  |       |  |
| 8       | 26.0                 | 28.0  | 31.0                 | 35.0  | 27.5                | 30.0  | 26.0              | 28.0  | 88.0                  | 85.0   | -                         | 2.0   | 0.4                     | 2.1   | SE                      | SW    | -             | 10.4  | 1.0                  | 1.5   | 27.5                  | 33.0  |       |  |
| 9       | 26.5                 | 27.0  | 31.5                 | 34.0  | 27.5                | 28.0  | 26.5              | 27.0  | 88.0                  | 92.0   | 2.0                       | -     | 0.7                     | 2.6   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 27.5                  | 31.5  |       |  |
| 10      | 25.0                 | 27.0  | 27.0                 | 33.0  | 26.5                | 30.0  | 26.0              | 29.0  | 96.0                  | 93.0   | -                         | -     | 0.8                     | 0.6   | SW                      | SE    | 0.6           | 0.2   | 0.5                  | 1.0   | 26.0                  | 33.5  |       |  |
| 11      | 27.5                 | 26.5  | 31.0                 | 32.5  | 28.0                | 26.5  | 27.0              | 26.0  | 92.0                  | 88.0   | 2.0                       | -     | 0.1                     | 1.4   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 27.8                  | 27.8  |       |  |
| 12      | 25.5                 | 27.0  | 27.5                 | 32.5  | 26.5                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.1                     | 0.9   | SW                      | SW    | -             | 21.2  | 1.0                  | 1.0   | 25.5                  | 32.5  |       |  |
| 13      | 26.0                 | 27.0  | 31.0                 | 32.0  | 27.5                | 28.0  | 26.0              | 26.5  | 88.0                  | 81.0   | 2.0                       | -     | 0.4                     | 2.6   | SW                      | SW    | -             | -     | 1.0                  | 1.2   | 25.0                  | 29.0  |       |  |
| 14      | 25.0                 | 26.0  | 30.0                 | 32.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | 4.0                       | 4.0   | 0.2                     | 3.4   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 25.5                  | 32.0  |       |  |
| 15      | 25.0                 | 26.0  | 30.0                 | 34.0  | 26.5                | 30.0  | 25.0              | 27.5  | 88.0                  | 75.0   | 2.0                       | -     | 0.6                     | 1.2   | SW                      | SW    | -             | 3.0   | 1.0                  | 1.0   | 26.0                  | 33.5  |       |  |
| 16      | 26.0                 | 28.0  | 32.0                 | 34.0  | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | -     | 0.2                     | 2.0   | SW                      | SE    | -             | 7.8   | 1.0                  | 1.0   | 27.5                  | 31.0  |       |  |
| 17      | 26.0                 | 24.0  | 30.0                 | 33.0  | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 2.1   | SE                      | SW    | -             | 2.6   | 1.0                  | 1.0   | 27.0                  | 29.0  |       |  |
| 18      | 24.0                 | 26.0  | 27.0                 | 33.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 4.0   | 0.4                     | 1.1   | SE                      | NE    | 1.0           | 8.8   | -                    | 1.5   | 25.2                  | 30.8  |       |  |
| 19      | 24.0                 | 24.5  | 26.0                 | 29.5  | 26.0                | 26.5  | 25.0              | 25.5  | 92.0                  | 88.0   | 2.0                       | 2.0   | 0.8                     | 1.8   | SW                      | SE    | -             | 13.6  | 1.0                  | 0.8   | 25.5                  | 26.2  |       |  |
| 20      | 24.0                 | 25.0  | 26.0                 | 29.0  | 25.0                | 27.0  | 24.5              | 26.0  | 88.0                  | 92.0   | 2.0                       | 6.0   | 0.5                     | 2.6   | SW                      | NE    | 14.6          | 2.2   | 0.6                  | 0.6   | 24.5                  | 27.5  |       |  |
| 21      | 24.5                 | 26.0  | 26.0                 | 30.0  | 25.0                | 27.0  | 24.0              | 25.0  | 92.0                  | 84.0   | 4.0                       | 2.0   | 2.4                     | 2.3   | SE                      | SE    | 8.6           | 0.4   | 0.6                  | 1.0   | 24.5                  | 29.5  |       |  |
| 22      | 25.0                 | 26.0  | 28.0                 | 30.0  | 26.0                | 27.0  | 24.0              | 25.0  | 84.0                  | 84.0   | 2.0                       | 2.0   | 1.3                     | 3.3   | SE                      | SW    | 0.8           | -     | 0.5                  | 0.5   | 25.5                  | 29.5  |       |  |
| 23      | 24.0                 | 27.0  | 28.0                 | 33.0  | 27.0                | 30.0  | 25.0              | 26.5  | 84.0                  | 68.0   | 4.0                       | -     | 0.2                     | 2.0   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 25.0                  | 33.5  |       |  |
| 24      | 25.0                 | 26.0  | 32.0                 | 35.0  | 28.5                | 30.0  | 26.5              | 27.5  | 81.0                  | 75.0   | -                         | 4.0   | 0.9                     | 0.9   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 27.0                  | 35.5  |       |  |
| 25      | 25.0                 | 30.0  | 32.0                 | 37.0  | 28.0                | 32.0  | 26.0              | 27.0  | 85.0                  | 67.0   | -                         | 2.0   | 0.2                     | 0.8   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 27.0                  | 35.5  |       |  |
| 26      | 25.5                 | 28.0  | 33.0                 | 35.5  | 28.0                | 32.0  | 25.5              | 26.5  | 81.0                  | 58.0   | 2.0                       | -     | 0.2                     | 1.3   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 26.0                  | 35.0  |       |  |
| 27      | 25.0                 | 26.0  | 33.0                 | 36.0  | 30.0                | 32.0  | 26.5              | 27.0  | 68.0                  | 67.0   | 2.0                       | -     | 0.2                     | 1.5   | NE                      | SE    | -             | 4.2   | 1.0                  | 1.5   | 27.0                  | 35.0  |       |  |
| 28      | 26.0                 | 27.0  | 34.0                 | 34.0  | 29.0                | 26.0  | 25.0              | 24.0  | 71.0                  | 84.0   | 4.0                       | 4.0   | 0.8                     | 2.5   | NE                      | NE    | -             | -     | 2.0                  | 1.2   | 27.0                  | 31.5  |       |  |
| 29      | 25.0                 | 26.0  | 34.0                 | 34.0  | 28.0                | 25.0  | 25.0              | 22.0  | 70.0                  | 68.0   | 4.0                       | 8.0   | 0.5                     | 1.8   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 26.5                  | 31.5  |       |  |
| 30      | 25.0                 |       | 27.0                 |       | 27.0                |       | 25.0              |       | 77.0                  |        | -                         |       | 0.4                     |       | SW                      |       | 0.8           |       | 0.5                  |       | 25.2                  |       |       |  |
| Total   | 760.5                | 803.0 | 893.5                | 995.5 | 820.0               | 862.0 | 773.5             | 799.0 | 2596.0                | 2468.0 | 56.0                      | 68.0  | 15.2                    | 58.3  |                         |       | 28.4          | 137.0 | 27.7                 | 35.7  | 789.6                 | 944.8 |       |  |
| Average | 25.4                 | 26.8  | 29.8                 | 33.2  | 27.3                | 28.7  | 25.8              | 26.6  | 86.5                  | 82.3   | 1.9                       | 2.3   | 0.5                     | 1.9   |                         |       |               |       |                      |       | 26.3                  | 31.5  |       |  |
|         | 26.1                 |       | 31.5                 |       | 28.0                |       | 26.2              |       | 84.4                  |        | 2.1                       |       | 1.2                     |       |                         |       | 165.4 *       |       | 63.4                 |       | 28.9                  |       |       |  |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 28.0  |                      | 33.0   |                     | 30.0  |                   | 26.0  |                       | 72.0   |                           | 4.0   |                         | 1.7   |                         | SE    |               | ..    |                      | 1.0   |                       | 33.0  |
| 1       | 25.5                 | 27.0  | 31.0                 | 34.0   | 26.0                | 29.0  | 24.5              | 26.5  | 84.0                  | 74.0   | -                         | -     | 0.8                     | 0.9   | SSW                     | SSE   | -             | -     | 1.0                  | 1.0   | 26.0                  | 32.0  |
| 2       | 26.0                 | 27.0  | 30.0                 | 34.0   | 25.0                | 30.5  | 24.0              | 27.0  | 92.0                  | 75.0   | -                         | -     | 0.6                     | 1.3   | SW                      | SW    | 18.4          | -     | 1.0                  | 1.0   | 25.0                  | 32.5  |
| 3       | 25.0                 | 26.0  | 32.0                 | 34.0   | 28.0                | 32.0  | 25.0              | 26.0  | 77.0                  | 61.0   | -                         | -     | 0.3                     | 1.4   | NE                      | SE    | -             | 3.0   | 1.0                  | 1.5   | 26.0                  | 34.0  |
| 4       | 25.5                 | 27.0  | 32.0                 | 33.0   | 28.0                | 29.0  | 25.0              | 26.0  | 77.0                  | 78.0   | 2.0                       | 2.0   | 0.3                     | 3.1   | NE                      | SW    | -             | 2.8   | 1.0                  | 1.0   | 26.5                  | 32.0  |
| 5       | 25.0                 | 28.5  | 28.0                 | 32.5   | 28.0                | 28.5  | 26.0              | 26.5  | 85.0                  | 81.0   | 2.0                       | -     | 0.1                     | 5.0   | SE                      | SW    | -             | 3.2   | 1.0                  | 0.8   | 26.0                  | 32.5  |
| 6       | 25.0                 | 26.0  | 29.0                 | 30.0   | 27.0                | 25.0  | 25.0              | 24.0  | 77.0                  | 92.0   | 2.0                       | 2.0   | 0.5                     | 2.7   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 26.8                  | 31.5  |
| 7       | 24.0                 | 25.0  | 29.0                 | 32.5   | 28.0                | 29.0  | 24.0              | 26.0  | 70.0                  | 78.0   | 2.0                       | 2.0   | 0.2                     | 5.0   | NE                      | SE    | 0.2           | 16.2  | 1.0                  | 1.0   | 25.5                  | 32.5  |
| 8       | 25.0                 | 25.0  | 30.0                 | 30.0   | 27.0                | 28.0  | 25.0              | 25.0  | 84.0                  | 77.0   | 4.0                       | 2.0   | 0.5                     | 2.0   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 26.0                  | 30.5  |
| 9       | 25.0                 | 27.0  | 29.0                 | 33.0   | 27.0                | 27.0  | 25.5              | 24.0  | 81.0                  | 77.0   | 2.0                       | -     | 0.1                     | 1.3   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 25.8                  | 32.0  |
| 10      | 24.0                 | 28.0  | 28.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | -                         | 2.0   | 0.3                     | 0.9   | NE                      | SE    | -             | -     | 1.0                  | 1.5   | 25.0                  | 33.0  |
| 11      | 25.0                 | 28.0  | 31.0                 | 34.5   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | -                         | 2.0   | 0.1                     | 1.6   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 25.5                  | 30.0  |
| 12      | 25.5                 | 29.0  | 31.0                 | 34.0   | 27.5                | 30.0  | 25.5              | 28.0  | 81.0                  | 85.0   | 2.0                       | -     | 0.1                     | 1.3   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 26.2                  | 30.0  |
| 13      | 25.0                 | 27.5  | 29.0                 | 34.0   | 27.0                | 32.0  | 25.0              | 27.0  | 84.0                  | 67.0   | -                         | -     | 0.1                     | 1.1   | SSW                     | SW    | -             | -     | 1.0                  | 1.5   | 26.5                  | 33.0  |
| 14      | 25.5                 | 30.0  | 31.0                 | 37.0   | 28.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 72.0   | -                         | -     | 0.1                     | 1.6   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 27.0                  | 34.0  |
| 15      | 26.0                 | 32.0  | 32.0                 | 36.0   | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | -                         | 2.0   | 0.1                     | 0.4   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 27.0                  | 33.0  |
| 16      | 25.0                 | 28.0  | 30.0                 | 36.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | -     | 0.5                     | 0.9   | NE                      | SSW   | -             | -     | 1.0                  | 1.5   | 24.5                  | 32.5  |
| 17      | 22.5                 | 26.0  | 32.0                 | 31.0   | 26.5                | 30.0  | 25.0              | 24.0  | 88.0                  | 61.0   | 2.0                       | -     | 0.2                     | 1.1   | NE                      | SSW   | -             | -     | 1.0                  | 1.5   | 23.5                  | 32.0  |
| 18      | 20.0                 | 24.5  | 29.0                 | 32.0   | 24.5                | 29.0  | 24.0              | 24.0  | 96.0                  | 64.0   | 2.0                       | -     | 0.1                     | 2.5   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 22.0                  | 30.0  |
| 19      | 24.0                 | 27.0  | 30.0                 | 32.0   | 27.0                | 29.0  | 24.0              | 25.0  | 77.0                  | 71.0   | 2.0                       | -     | 0.2                     | 2.8   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 25.0                  | 29.0  |
| 20      | 24.5                 | 27.5  | 30.0                 | 33.0   | 27.0                | 29.5  | 24.5              | 25.0  | 75.0                  | 68.0   | 2.0                       | -     | 0.1                     | 2.5   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 25.5                  | 31.5  |
| 21      | 24.0                 | 29.0  | 30.0                 | 34.0   | 28.0                | 30.0  | 23.5              | 25.0  | 60.0                  | 65.0   | 2.0                       | 2.0   | 0.1                     | 1.8   | SE                      | NE    | -             | 3.6   | 1.0                  | 1.0   | 25.5                  | 33.0  |
| 22      | 24.0                 | 26.0  | 31.0                 | 33.0   | 27.0                | 28.0  | 24.0              | 25.0  | 77.0                  | 77.0   | 4.0                       | 2.0   | 0.3                     | 2.5   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 25.5                  | 31.0  |
| 23      | 22.0                 | 24.0  | 26.5                 | 33.0   | 27.0                | 30.0  | 24.5              | 26.0  | 73.0                  | 72.0   | -                         | -     | 0.2                     | 1.6   | SW                      | SSW   | -             | -     | 1.0                  | 1.0   | 24.0                  | 30.5  |
| 24      | 23.5                 | 25.0  | 30.0                 | 35.0   | 24.0                | 29.0  | 23.0              | 24.0  | 92.0                  | 64.0   | 2.0                       | -     | 0.1                     | 1.5   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 24.5                  | 32.0  |
| 25      | 22.0                 | 25.0  | 30.0                 | 34.0   | 24.0                | 30.0  | 21.0              | 23.0  | 75.0                  | 53.0   | 2.0                       | -     | 0.2                     | 1.4   | SE                      | SSW   | -             | -     | 0.5                  | 1.0   | 22.0                  | 31.0  |
| 26      | 19.0                 | 24.0  | 29.0                 | 34.0   | 24.0                | 29.0  | 20.5              | 22.0  | 64.0                  | 53.0   | 2.0                       | -     | 0.3                     | 1.7   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 21.5                  | 30.0  |
| 27      | 20.0                 | 29.0  | 31.0                 | 35.0   | 24.0                | 28.0  | 21.0              | 23.0  | 75.0                  | 64.0   | 2.0                       | -     | 0.2                     | 1.5   | SW                      | SSW   | -             | -     | 1.5                  | 1.5   | 26.5                  | 29.5  |
| 28      | 22.0                 | 24.0  | 30.0                 | 32.0   | 24.0                | 28.0  | 22.0              | 23.0  | 83.0                  | 64.0   | 2.0                       | -     | 0.2                     | 1.2   | SE                      | NW    | -             | -     | 1.0                  | 1.5   | 23.5                  | 29.0  |
| 29      | 24.0                 | 26.0  | 29.0                 | 33.0   | 24.0                | 28.0  | 22.0              | 23.0  | 83.0                  | 64.0   | -                         | -     | 0.0                     | 1.2   | SW                      | SSW   | -             | -     | 1.0                  | 1.5   | 26.5                  | 29.0  |
| 30      | 19.0                 | 23.0  | 29.0                 | 33.0   | 27.0                | 28.0  | 21.5              | 23.0  | 58.0                  | 64.0   | -                         | -     | 0.1                     | 1.1   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 20.8                  | 28.0  |
| 31      | 18.0                 |       | 29.0                 |        | 23.5                |       | 20.5              |       | 71.0                  |        | -                         |       | 0.1                     |       | SW                      |       | -             |       | 1.0                  |       | 20.0                  |       |
| Total   | 730.5                | 829.0 | 927.5                | 1035.5 | 818.0               | 909.5 | 743.5             | 781.0 | 2461.0                | 2182.0 | 42.0                      | 22.0  | 7.0                     | 56.5  |                         |       | 18.6          | 28.8  | 30.5                 | 38.8  | 771.6                 | 973.5 |
| Average | 23.6                 | 26.7  | 29.9                 | 33.4   | 26.4                | 29.3  | 24.0              | 25.2  | 79.4                  | 70.4   | 1.4                       | 0.7   | 0.2                     | 1.8   |                         |       |               |       |                      |       | 24.9                  | 31.4  |
|         | 25.2                 |       | 31.7                 |        | 27.9                |       | 24.6              |       | 74.9                  |        | 1.0                       |       | 1.0                     |       |                         |       | 47.4 *        |       | 69.3                 |       | 28.1                  |       |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPM     |                      | 19.0  |                      | 32.0  |                     | 27.0  |                   | 21.5  |                       | 58.0   |                           | -     |                         | 2.2   |                         | SSW   |               | ..    |                      | 1.0   |                       | ..      |
| 1       | 17.0                 | 23.0  | 29.0                 | 32.0  | 23.0                | 27.0  | 20.0              | 21.0  | 75.0                  | 56.0   | 2.0                       | -     | 0.1                     | 1.6   | SW                      | SW    | -             | -     | 0.5                  | 1.0   | 21.0                  | 28.0    |
| 2       | 19.0                 | 23.5  | 28.5                 | 31.5  | 24.0                | 25.0  | 20.0              | 21.5  | 68.0                  | 64.0   | 4.0                       | -     | 0.1                     | 2.3   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 20.5                  | 28.0    |
| 3       | 17.0                 | 22.0  | 28.0                 | 31.0  | 23.0                | 25.0  | 19.0              | 21.0  | 70.0                  | 68.0   | 4.0                       | -     | 0.1                     | 0.8   | NE                      | SSW   | -             | -     | 0.5                  | 1.0   | 19.5                  | 28.0    |
| 4       | 18.0                 | 25.0  | 30.0                 | 31.0  | 24.0                | 26.0  | 20.0              | 21.0  | 68.0                  | 62.0   | 4.0                       | -     | 4.3                     | 4.4   | NE                      | NE    | -             | -     | 0.5                  | 1.0   | 20.5                  | 28.0    |
| 5       | 22.0                 | 23.5  | 27.5                 | 31.5  | 24.0                | 26.0  | 20.0              | 20.5  | 68.0                  | 52.0   | 2.0                       | -     | 0.0                     | 2.9   | SE                      | SE    | -             | -     | 0.5                  | 1.0   | 19.5                  | 28.5    |
| 6       | 21.0                 | 23.0  | 27.0                 | 31.0  | 24.0                | 26.0  | 20.0              | 21.0  | 68.0                  | 62.0   | 2.0                       | -     | 0.1                     | 2.3   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 20.0                  | 29.0    |
| 7       | 18.5                 | 24.0  | 30.0                 | 33.0  | 24.5                | 27.0  | 20.0              | 21.5  | 68.0                  | 58.0   | 2.0                       | -     | 0.1                     | 1.9   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 20.5                  | 28.0    |
| 8       | 17.0                 | 23.0  | 29.5                 | 32.0  | 24.0                | 27.0  | 20.5              | 21.0  | 64.0                  | 56.0   | 2.0                       | -     | 0.0                     | 1.3   | SW                      | SSW   | -             | -     | 0.5                  | 1.0   | 20.5                  | 28.0    |
| 9       | 16.5                 | 23.0  | 28.5                 | 32.0  | 22.0                | 26.0  | 19.5              | 20.0  | 70.0                  | 55.0   | -                         | -     | 0.1                     | 1.3   | SW                      | SSW   | -             | -     | 0.5                  | 1.0   | 19.5                  | 27.5    |
| 10      | 15.0                 | 22.0  | 28.0                 | 31.5  | 21.0                | 25.0  | 17.0              | 18.0  | 65.0                  | 47.0   | 2.0                       | -     | 0.1                     | 2.2   | SE                      | SSW   | -             | -     | 0.5                  | 1.0   | 18.0                  | 26.0    |
| 11      | 14.5                 | 20.0  | 30.0                 | 31.0  | 20.0                | 23.5  | 16.5              | 18.0  | 60.0                  | 55.0   | 2.0                       | -     | 0.2                     | 2.2   | SW                      | NW    | -             | -     | 0.5                  | 1.0   | 17.5                  | 25.0    |
| 12      | 15.5                 | 20.5  | 26.0                 | 31.0  | 20.0                | 25.0  | 16.0              | 19.0  | 64.0                  | 54.0   | 2.0                       | -     | 0.2                     | 1.7   | SSW                     | NE    | -             | -     | 0.5                  | 1.0   | 17.5                  | 26.0    |
| 13      | 16.0                 | 20.0  | 26.5                 | 33.0  | 20.0                | 26.0  | 18.0              | 19.0  | 81.0                  | 49.0   | 2.0                       | -     | 0.1                     | 1.9   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 18.0                  | 27.0    |
| 14      | 16.0                 | 20.0  | 27.5                 | 31.0  | 21.5                | 27.0  | 17.5              | 20.0  | 61.0                  | 50.0   | 2.0                       | -     | 0.1                     | 3.7   | NW                      | SE    | -             | 0.8   | 0.5                  | 1.0   | 18.5                  | 28.0    |
| 15      | 20.0                 | 21.5  | 30.0                 | 31.0  | 22.0                | 22.5  | 19.0              | 20.0  | 74.0                  | 78.0   | -                         | 4.0   | 0.3                     | 3.3   | SW                      | NE    | -             | -     | 0.5                  | -     | 21.0                  | 22.5    |
| 16      | 20.0                 | 22.0  | 22.0                 | 31.0  | 22.0                | 25.0  | 20.0              | 21.0  | 82.0                  | 68.0   | 2.0                       | 2.0   | 0.5                     | 4.0   | SE                      | SW    | 2.8           | -     | 0.8                  | 1.0   | 21.0                  | 27.0    |
| 17      | 22.0                 | 24.0  | 29.0                 | 31.0  | 22.5                | 26.0  | 21.0              | 22.0  | 87.0                  | 69.0   | 4.0                       | 2.0   | 1.2                     | 2.0   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 22.5                  | 27.0    |
| 18      | 21.0                 | 25.0  | 30.0                 | 32.0  | 22.5                | 27.0  | 21.5              | 22.0  | 87.0                  | 63.0   | 2.0                       | -     | 0.1                     | 2.2   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 22.5                  | 27.0    |
| 19      | 20.0                 | 26.0  | 30.0                 | 34.0  | 23.0                | 28.0  | 20.0              | 23.5  | 75.0                  | 60.0   | 2.0                       | -     | 0.1                     | 1.8   | NE                      | SSW   | -             | -     | 0.5                  | 1.0   | 23.0                  | 29.0    |
| 20      | 20.0                 | 25.0  | 30.0                 | 34.0  | 24.0                | 28.0  | 21.0              | 22.0  | 75.0                  | 57.0   | 2.0                       | -     | 0.1                     | 1.9   | SE                      | NW    | -             | -     | 0.5                  | 1.0   | 22.5                  | 29.5    |
| 21      | 17.0                 | 23.5  | 29.0                 | 33.0  | 23.0                | 27.5  | 17.0              | 19.5  | 52.0                  | 41.0   | 2.0                       | -     | 0.1                     | 1.5   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 20.5                  | 27.5    |
| 22      | 16.5                 | 21.0  | 28.0                 | 31.0  | 20.5                | 26.0  | 16.5              | 20.0  | 60.0                  | 55.0   | 2.0                       | -     | 0.1                     | 0.8   | SW                      | NW    | -             | -     | 0.5                  | 1.0   | 19.5                  | 25.0    |
| 23      | 15.5                 | 20.0  | 27.0                 | 32.0  | 20.0                | 20.5  | 16.5              | 19.0  | 60.0                  | 86.0   | -                         | -     | 0.1                     | 1.5   | NE                      | SSW   | -             | -     | 0.5                  | 1.0   | 18.5                  | 27.5    |
| 24      | 14.5                 | 19.0  | 27.0                 | 32.0  | 19.0                | 23.0  | 15.0              | 16.0  | 63.0                  | 45.0   | 2.0                       | -     | 0.0                     | 1.7   | NW                      | SW    | -             | -     | 1.0                  | 1.0   | 17.0                  | 25.0    |
| 25      | 14.0                 | 20.0  | 31.0                 | 32.0  | 19.5                | 24.5  | 15.0              | 17.5  | 59.0                  | 43.0   | 2.0                       | -     | 0.1                     | 1.8   | SW                      | SSW   | -             | -     | 1.0                  | 1.0   | 15.5                  | 24.0    |
| 26      | 15.0                 | 20.0  | 27.0                 | 33.0  | 20.0                | 25.0  | 15.0              | 18.0  | 56.0                  | 47.0   | 2.0                       | -     | 0.0                     | 1.1   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 16.0                  | 24.5    |
| 27      | 12.0                 | 19.0  | 28.0                 | 32.0  | 20.0                | 25.0  | 15.0              | 19.0  | 56.0                  | 54.0   | 2.0                       | -     | 0.1                     | 1.4   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 16.0                  | 25.0    |
| 28      | 12.0                 | 21.0  | 30.0                 | 33.0  | 20.0                | 25.5  | 15.0              | 17.5  | 56.0                  | 41.0   | 2.0                       | -     | 0.1                     | 1.1   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 16.0                  | 24.0    |
| 29      | 13.0                 | 19.0  | 27.0                 | 32.0  | 19.0                | 25.0  | 14.5              | 19.0  | 53.0                  | 54.0   | 2.0                       | -     | 0.1                     | 1.9   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 16.0                  | 24.5    |
| 30      | 13.5                 |       | 27.0                 |       | 18.0                |       | 15.0              |       | 71.0                  |        | 2.0                       |       | 0.1                     |       | SE                      |       | -             |       | 0.5                  |       | 16.5                  |         |
| Total   | 509.0                | 657.5 | 848.0                | 957.5 | 650.0               | 767.0 | 541.0             | 600.0 | 2016.0                | 1707.0 | 62.0                      | 8.0   | 8.6                     | 60.7  |                         |       | 2.8           | 0.8   | 18.3                 | 29.0  | 575.0                 | 774.0 * |
| Average | 17.0                 | 21.9  | 28.3                 | 31.9  | 21.7                | 25.6  | 18.0              | 20.0  | 67.2                  | 56.9   | 2.1                       | 0.3   | 0.3                     | 2.0   |                         |       |               |       |                      |       | 19.2                  | 26.7 *  |
|         | 19.4                 |       | 30.1                 |       | 23.6                |       | 19.0              |       | 62.1                  |        | 1.2                       |       | 1.2                     |       |                         |       | 3.6 *         |       | 47.3                 |       | 22.9 *                |         |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 18.0  |                      | 32.0  |                     | 24.5  |                   | 18.5  |                       | 49.0   |                           | -     |                         | 1.6   |                         | SSW   |               | ..    |                      | 1.0   |                       | 24.5  |
| 1       | 12.0                 | 18.5  | 27.0                 | 30.0  | 19.0                | 23.0  | 14.0              | 16.0  | 54.0                  | 45.0   | 2.0                       | -     | 0.2                     | 2.2   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 16.0                  | 23.5  |
| 2       | 11.5                 | 18.0  | 25.0                 | 29.0  | 19.0                | 23.5  | 14.0              | 16.5  | 54.0                  | 67.0   | 2.0                       | -     | 0.1                     | 2.2   | NW                      | SW    | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.5  |
| 3       | 11.0                 | 16.0  | 26.0                 | 31.0  | 21.0                | 22.5  | 16.0              | 17.0  | 57.0                  | 54.0   | -                         | -     | 0.1                     | 1.2   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 14.5                  | 23.0  |
| 4       | 11.0                 | 16.0  | 25.0                 | 30.0  | 16.5                | 23.0  | 14.5              | 17.5  | 74.0                  | 48.0   | -                         | -     | 0.1                     | 1.6   | SE                      | SSW   | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.5  |
| 5       | 12.0                 | 17.0  | 26.0                 | 30.0  | 17.0                | 22.5  | 14.0              | 17.0  | 70.0                  | 54.0   | 2.0                       | -     | 0.0                     | 2.4   | SW                      | SSW   | -             | -     | 0.5                  | 1.0   | 15.0                  | 23.0  |
| 6       | 13.0                 | 16.0  | 27.0                 | 31.0  | 18.0                | 25.0  | 15.0              | 19.0  | 71.0                  | 54.0   | -                         | -     | 0.1                     | 1.5   | SW                      | SE    | -             | -     | 0.5                  | 1.0   | 15.5                  | 24.0  |
| 7       | 13.5                 | 17.0  | 27.0                 | 30.0  | 19.0                | 25.0  | 14.0              | 18.0  | 54.0                  | 47.0   | -                         | -     | 0.1                     | 3.1   | SE                      | NW    | -             | -     | 0.5                  | 1.0   | 16.0                  | 24.0  |
| 8       | 12.0                 | 18.0  | 26.0                 | 31.0  | 18.0                | 26.0  | 15.0              | 20.0  | 71.0                  | 55.0   | 2.0                       | 2.0   | 0.6                     | 2.4   | NE                      | SE    | -             | -     | 0.5                  | 1.0   | 15.0                  | 24.0  |
| 9       | 16.0                 | 20.0  | 30.0                 | 31.5  | 21.0                | 24.0  | 16.0              | 17.0  | 57.0                  | 46.0   | 2.0                       | -     | 0.4                     | 1.8   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 16.0                  | 25.0  |
| 10      | 12.5                 | 17.5  | 26.0                 | 31.0  | 18.0                | 23.0  | 14.0              | 18.0  | 62.0                  | 59.0   | -                         | -     | 0.0                     | 1.3   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 15.5                  | 23.5  |
| 11      | 12.5                 | 17.0  | 26.5                 | 31.0  | 18.0                | 25.0  | 15.0              | 19.0  | 71.0                  | 54.0   | -                         | -     | 0.1                     | 1.3   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 16.0                  | 24.5  |
| 12      | 13.0                 | 17.0  | 27.0                 | 32.0  | 17.0                | 25.0  | 15.0              | 18.5  | 80.0                  | 51.0   | 2.0                       | -     | 0.0                     | 1.4   | SE                      | SSW   | -             | -     | 0.5                  | 1.0   | 16.0                  | 24.5  |
| 13      | 14.0                 | 18.0  | 27.0                 | 32.0  | 18.5                | 25.0  | 16.0              | 19.0  | 76.0                  | 54.0   | 2.0                       | -     | 0.0                     | 1.5   | SW                      | SSW   | -             | -     | 0.5                  | 1.0   | 16.5                  | 25.0  |
| 14      | 15.0                 | 19.0  | 30.0                 | 31.0  | 19.0                | 25.0  | 16.0              | 20.0  | 72.0                  | 61.0   | 2.0                       | -     | 0.1                     | 1.4   | SE                      | SSW   | -             | -     | 0.5                  | 1.0   | 17.5                  | 25.0  |
| 15      | 16.0                 | 20.0  | 28.0                 | 32.0  | 20.0                | 26.0  | 17.0              | 20.0  | 73.0                  | 55.0   | 2.0                       | -     | 0.1                     | 1.6   | SW                      | SSW   | -             | -     | 0.5                  | 1.0   | 18.0                  | 26.0  |
| 16      | 16.0                 | 23.0  | 28.5                 | 31.5  | 20.0                | 25.0  | 17.5              | 19.0  | 68.0                  | 54.0   | -                         | -     | 0.1                     | 1.4   | SW                      | SW    | -             | -     | 0.5                  | 1.0   | 17.5                  | 25.0  |
| 17      | 15.0                 | 19.0  | 27.0                 | 30.0  | 19.0                | 24.5  | 15.0              | 18.5  | 63.0                  | 49.0   | 2.0                       | -     | 0.1                     | 1.6   | NE                      | SSW   | -             | -     | 0.5                  | 1.0   | 17.5                  | 25.0  |
| 18      | 10.0                 | 16.0  | 26.0                 | 29.0  | 16.0                | 22.0  | 13.0              | 16.0  | 69.0                  | 50.0   | -                         | -     | 0.2                     | 1.7   | SE                      | SSW   | -             | -     | 0.5                  | 1.0   | 15.0                  | 24.0  |
| 19      | 10.0                 | 13.0  | 25.0                 | 31.0  | 14.0                | 23.5  | 12.0              | 16.5  | 78.0                  | 41.0   | -                         | -     | 0.5                     | 1.9   | SW                      | SW    | -             | -     | 0.5                  | 0.5   | 13.5                  | 23.0  |
| 20      | 11.0                 | 16.0  | 27.0                 | 30.0  | 16.0                | 23.0  | 13.0              | 17.0  | 69.0                  | 52.0   | 2.0                       | -     | 0.1                     | 1.7   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 14.5                  | 23.5  |
| 21      | 12.0                 | 15.5  | 25.0                 | 30.0  | 16.0                | 24.0  | 13.0              | 18.0  | 69.0                  | 53.0   | 2.0                       | -     | 0.1                     | 1.8   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 14.8                  | 23.5  |
| 22      | 12.0                 | 18.0  | 26.5                 | 30.0  | 19.0                | 22.0  | 15.0              | 17.0  | 63.0                  | 58.0   | 2.0                       | -     | 0.2                     | 1.7   | NE                      | SW    | -             | -     | 0.5                  | 1.0   | 15.5                  | 23.0  |
| 23      | 12.0                 | 20.0  | 24.0                 | 32.0  | 21.0                | 23.5  | 16.0              | 17.0  | 57.0                  | 48.0   | 2.0                       | -     | 0.1                     | 1.4   | SE                      | SW    | -             | -     | 0.5                  | 1.0   | 15.8                  | 23.5  |
| 24      | 11.0                 | 17.5  | 26.0                 | 31.0  | 17.0                | 24.0  | 14.0              | 17.5  | 70.0                  | 43.0   | 2.0                       | -     | 0.1                     | 2.0   | SE                      | SSW   | -             | -     | 0.5                  | 1.0   | 14.5                  | 24.0  |
| 25      | 11.0                 | 17.5  | 26.0                 | 32.0  | 16.5                | 23.5  | 13.5              | 17.0  | 64.0                  | 48.0   | 2.0                       | -     | 0.1                     | 1.4   | NE                      | NW    | -             | -     | 0.5                  | 1.0   | 14.5                  | 23.5  |
| 26      | 11.0                 | 17.0  | 26.0                 | 31.0  | 17.5                | 23.0  | 11.5              | 15.0  | 39.0                  | 42.0   | 2.0                       | -     | 0.2                     | 1.8   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 14.5                  | 24.0  |
| 27      | 10.0                 | 19.0  | 26.5                 | 32.0  | 17.0                | 23.5  | 13.0              | 16.5  | 65.0                  | 41.0   | 2.0                       | -     | 0.2                     | 0.5   | NE                      | SSW   | -             | -     | 1.0                  | 1.0   | 13.5                  | 23.5  |
| 28      | 9.0                  | 15.0  | 26.0                 | 30.0  | 16.0                | 23.0  | 12.0              | 15.0  | 59.0                  | 38.0   | -                         | -     | 0.8                     | 2.4   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 13.5                  | 23.5  |
| 29      | 10.0                 | 15.0  | 25.0                 | 29.0  | 15.0                | 23.5  | 12.0              | 16.5  | 68.0                  | 41.0   | 2.0                       | -     | 0.1                     | 1.7   | NW                      | SSW   | -             | -     | 1.0                  | 1.0   | 13.5                  | 24.0  |
| 30      | 11.0                 | 16.0  | 26.0                 | 30.0  | 17.0                | 23.0  | 13.5              | 16.0  | 56.0                  | 45.0   | 2.0                       | -     | 0.0                     | 2.1   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 14.5                  | 23.4  |
| 31      | 11.0                 |       | 25.0                 |       | 17.0                |       | 14.0              |       | 70.0                  |        | 2.0                       |       | 0.1                     |       | NE                      |       | -             |       | 1.0                  |       | 14.5                  |       |
| Total   | 377.0                | 540.5 | 819.0                | 953.0 | 553.0               | 739.0 | 443.5             | 543.5 | 2023.0                | 1556.0 | 42.0                      | 2.0   | 4.9                     | 53.5  |                         |       | -             | *     | 18.5                 | 30.5  | 474.6                 | 742.9 |
| Average | 12.2                 | 17.4  | 26.4                 | 30.7  | 17.8                | 23.8  | 14.3              | 17.5  | 65.3                  | 50.2   | 1.4                       | 0.1   | 0.2                     | 1.7   |                         |       |               |       |                      |       | 15.3                  | 24.0  |
|         | 14.8                 |       | 28.6                 |       | 20.8                |       | 15.9              |       | 57.7                  |        | 0.7                       |       | 0.9                     |       |                         |       | 0.0 *         |       | 49.0                 |       | 19.6                  |       |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPM     |                      | 16.0  |                      | 29.0  |                     | 24.0  |                   | 16.0  |                       | 39.0   |                           | 2.0   |                         | 2.1   |                         | NE    |               | ..    |                      | 1.0   |                       | ..      |
| 1       | 12.0                 | 17.0  | 26.0                 | 30.0  | 17.0                | 23.0  | 14.0              | 17.0  | 70.0                  | 52.0   | -                         | -     | 0.2                     | 1.8   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 14.5                  | 23.0    |
| 2       | 12.0                 | 16.0  | 26.0                 | 28.0  | 15.0                | 23.0  | 12.0              | 17.0  | 68.0                  | 52.0   | 2.0                       | -     | 0.1                     | 2.0   | NE                      | SW    | -             | -     | 0.5                  | 0.5   | 15.0                  | 22.5    |
| 3       | 11.0                 | 15.0  | 25.0                 | 30.0  | 16.0                | 23.0  | 12.0              | 15.0  | 59.0                  | 38.0   | 2.0                       | 2.0   | 0.2                     | 2.4   | SE                      | SSW   | -             | -     | 0.5                  | 0.5   | 14.5                  | 22.5    |
| 4       | 8.0                  | 14.0  | 25.0                 | 28.5  | 15.0                | 21.0  | 11.0              | 15.0  | 58.0                  | 49.0   | -                         | 2.0   | 0.2                     | 1.4   | NW                      | SW    | -             | -     | 0.5                  | 0.5   | 12.5                  | 22.4    |
| 5       | 7.5                  | 14.0  | 24.0                 | 30.0  | 14.0                | 23.0  | 11.0              | 14.0  | 67.0                  | 31.0   | 2.0                       | -     | 0.1                     | 1.6   | NW                      | SE    | -             | -     | 0.5                  | 1.0   | 12.0                  | 22.5    |
| 6       | 9.0                  | 14.5  | 26.0                 | 30.0  | 15.0                | 22.5  | 11.0              | 16.5  | 58.0                  | 47.0   | 2.0                       | -     | 0.2                     | 1.6   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 12.5                  | 22.0    |
| 7       | 10.0                 | 15.0  | 26.0                 | 29.0  | 15.0                | 22.5  | 11.0              | 15.0  | 40.0                  | 58.0   | 2.0                       | -     | 0.2                     | 2.0   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 13.0                  | 22.2    |
| 8       | 9.5                  | 14.5  | 26.0                 | 29.0  | 17.0                | 23.0  | 12.5              | 17.0  | 47.0                  | 52.0   | 2.0                       | -     | 0.2                     | 2.5   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 13.0                  | 33.5    |
| 9       | 9.0                  | 16.0  | 26.0                 | 30.0  | 16.0                | 22.5  | 11.0              | 15.0  | 50.0                  | 58.0   | -                         | -     | 0.1                     | 1.8   | SW                      | SE    | -             | -     | 1.0                  | 1.0   | 14.0                  | 22.5    |
| 10      | 8.0                  | 15.0  | 24.0                 | 29.0  | 17.0                | 23.0  | 13.0              | 17.0  | 65.0                  | 52.0   | -                         | -     | 0.2                     | 1.7   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 13.0                  | 23.0    |
| 11      | 9.0                  | 16.0  | 24.0                 | 30.0  | 16.0                | 24.0  | 11.0              | 16.0  | 50.0                  | 39.0   | -                         | -     | 0.2                     | 1.6   | SW                      | SSW   | -             | -     | 1.0                  | 1.0   | 13.0                  | 23.5    |
| 12      | 10.0                 | 17.0  | 26.0                 | 30.0  | 17.0                | 23.0  | 13.0              | 16.0  | 65.0                  | 45.0   | -                         | -     | 0.0                     | 1.7   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.5    |
| 13      | 11.0                 | 16.0  | 28.0                 | 32.0  | 16.5                | 25.5  | 12.0              | 17.0  | 55.0                  | 38.0   | 2.0                       | -     | 0.0                     | 1.8   | SE                      | NW    | -             | -     | 1.0                  | 1.5   | 15.0                  | 24.0    |
| 14      | 12.0                 | 17.0  | 28.0                 | 32.0  | 15.0                | 25.5  | 12.5              | 17.0  | 63.0                  | 38.0   | -                         | -     | 0.0                     | 1.2   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 15.5                  | 24.5    |
| 15      | 11.0                 | 17.0  | 28.0                 | 33.0  | 16.0                | 25.5  | 13.0              | 17.0  | 69.0                  | 38.0   | -                         | -     | 0.3                     | 1.8   | SW                      | SSW   | -             | -     | 1.0                  | 1.5   | 15.5                  | 25.0    |
| 16      | 9.0                  | 16.0  | 27.0                 | 32.0  | 16.0                | 23.0  | 12.0              | 16.0  | 59.0                  | 45.0   | -                         | -     | 0.1                     | 1.6   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 13.5                  | 24.5    |
| 17      | 9.0                  | 17.0  | 27.5                 | 33.0  | 17.5                | 24.0  | 12.5              | 17.0  | 60.0                  | 46.0   | -                         | -     | 0.2                     | 2.1   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 13.5                  | 24.5    |
| 18      | 10.0                 | 18.5  | 27.0                 | 32.5  | 19.0                | 24.5  | 14.0              | 18.0  | 54.0                  | 52.0   | -                         | -     | 0.1                     | 1.8   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 14.5                  | 25.0    |
| 19      | 9.0                  | 17.0  | 27.0                 | 32.0  | 18.0                | 25.5  | 14.0              | 17.0  | 62.0                  | 38.0   | 2.0                       | -     | 0.2                     | 1.9   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 14.0                  | 25.0    |
| 20      | 10.5                 | 17.5  | 28.0                 | 32.5  | 19.0                | 24.5  | 14.0              | 16.5  | 54.0                  | 36.0   | -                         | -     | 0.1                     | 1.9   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 14.5                  | 25.0    |
| 21      | 12.0                 | 17.0  | 27.0                 | 32.0  | 17.5                | 26.0  | 13.5              | 17.5  | 56.0                  | 33.0   | 2.0                       | -     | 0.2                     | 2.1   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 15.0                  | 25.5    |
| 22      | 11.0                 | 16.0  | 28.0                 | 32.0  | 16.0                | 25.5  | 13.0              | 17.0  | 69.0                  | 38.0   | -                         | 2.0   | 0.2                     | 2.2   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 15.0                  | 25.0    |
| 23      | 11.5                 | 16.0  | 27.5                 | 31.5  | 15.0                | 21.0  | 12.0              | 15.0  | 68.0                  | 49.0   | -                         | -     | 0.2                     | 2.4   | SW                      | NW    | -             | -     | 1.0                  | 1.5   | 15.0                  | 25.0    |
| 24      | 11.0                 | 14.0  | 28.0                 | 31.0  | 16.0                | 25.5  | 13.0              | 17.0  | 69.0                  | 38.0   | -                         | 4.0   | 0.1                     | 2.9   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 15.5                  | 25.5    |
| 25      | 10.0                 | 16.0  | 27.0                 | 31.0  | 17.0                | 24.0  | 13.0              | 15.0  | 65.0                  | 33.0   | -                         | 2.0   | 0.4                     | 2.7   | NW                      | SW    | -             | -     | 1.0                  | 1.0   | 14.5                  | 22.5    |
| 26      | 11.0                 | 16.0  | 26.0                 | 31.0  | 17.0                | 23.0  | 12.5              | 16.0  | 47.0                  | 45.0   | 4.0                       | -     | 0.1                     | 2.3   | SE                      | NW    | -             | -     | 1.0                  | 1.0   | 13.5                  | 22.0    |
| 27      | 9.0                  | 16.5  | 28.0                 | 31.0  | 17.0                | 24.0  | 12.0              | 15.0  | 52.0                  | 33.0   | -                         | -     | 0.3                     | 1.9   | SE                      | NW    | -             | -     | 1.0                  | 1.0   | 13.0                  | 22.7    |
| 28      | 8.5                  | 16.0  | 26.0                 | 31.5  | 16.5                | 24.5  | 11.0              | 16.5  | 43.0                  | 36.0   | 2.0                       | 2.0   | 0.2                     | 2.2   | SW                      | NE    | -             | -     | 1.0                  | 1.0   | 13.0                  | 23.0    |
| 29      | 10.0                 | 16.0  | 27.0                 | 32.0  | 17.0                | 25.0  | 12.0              | 15.0  | 52.0                  | 28.0   | 2.0                       | 2.0   | 0.2                     | 2.3   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 24.0    |
| 30      | 10.0                 | 16.0  | 27.0                 | 32.0  | 18.0                | 24.0  | 13.0              | 15.0  | 53.0                  | 33.0   | 2.0                       | 2.0   | 0.1                     | 2.3   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 14.2                  | 25.0    |
| 31      | 10.0                 |       | 29.0                 |       | 17.0                |       | 14.0              |       | 70.0                  |        | -                         |       | 0.3                     |       | SW                      |       | -             |       | 1.0                  |       | 14.5                  |         |
| Total   | 310.5                | 495.5 | 825.0                | 956.5 | 511.0               | 738.0 | 385.5             | 501.0 | 1817.0                | 1309.0 | 28.0                      | 20.0  | 5.0                     | 61.8  |                         |       | -             | *     | 29.0                 | 35.5  | 434.2                 | 720.8 * |
| Average | 10.0                 | 16.0  | 26.6                 | 30.9  | 16.5                | 23.8  | 12.4              | 16.2  | 58.6                  | 42.2   | 0.9                       | 0.6   | 0.2                     | 2.0   |                         |       |               |       |                      |       | 14.0                  | 24.0 *  |
|         | 13.0                 |       | 28.7                 |       | 20.1                |       | 14.3              |       | 50.4                  |        | 0.8                       |       | 1.1                     |       |                         |       | 0.0 *         |       | 64.5                 |       | 19.0 *                |         |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 17.0  |                      | 34.0  |                     | 26.0  |                   | 16.0  |                       | 36.0   |                           | 2.0   |                         | 2.9   |                         | NE    |               | -     |                      | 1.0   |                       | -     |
| 1       | 11.0                 | 17.5  | 29.0                 | 34.0  | 17.0                | 26.0  | 13.0              | 16.0  | 61.0                  | 30.0   | 2.0                       | -     | 0.3                     | 3.0   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 15.0                  | 25.2  |
| 2       | 10.0                 | 17.0  | 28.0                 | 34.0  | 17.5                | 26.0  | 12.5              | 18.0  | 47.0                  | 52.0   | 2.0                       | 2.0   | 0.3                     | 2.2   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 14.5                  | 26.0  |
| 3       | 12.0                 | 17.5  | 29.0                 | 34.0  | 19.5                | 26.5  | 13.5              | 18.5  | 42.0                  | 39.0   | 2.0                       | -     | 0.3                     | 2.4   | SE                      | NW    | -             | -     | 1.0                  | 1.5   | 16.0                  | 26.0  |
| 4       | 13.0                 | 20.0  | 30.0                 | 35.0  | 20.0                | 28.5  | 14.0              | 19.0  | 48.0                  | 36.0   | 2.0                       | -     | 0.4                     | 2.5   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 17.0                  | 26.3  |
| 5       | 14.0                 | 20.0  | 30.0                 | 34.5  | 20.0                | 28.5  | 16.0              | 21.0  | 64.0                  | 48.0   | -                         | -     | 0.1                     | 2.4   | SW                      | NW    | -             | -     | 1.0                  | 1.5   | 17.5                  | 27.0  |
| 6       | 17.0                 | 21.0  | 32.0                 | 35.0  | 20.0                | 28.0  | 16.5              | 21.0  | 60.0                  | 51.0   | -                         | 2.0   | 0.1                     | 1.6   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 18.5                  | 28.0  |
| 7       | 16.5                 | 19.0  | 31.0                 | 32.0  | 19.0                | 23.5  | 16.0              | 18.5  | 72.0                  | 55.0   | -                         | -     | 0.3                     | 0.6   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 19.0                  | 22.0  |
| 8       | 14.5                 | 20.0  | 24.5                 | 32.0  | 19.5                | 26.5  | 16.5              | 18.5  | 67.0                  | 39.0   | 2.0                       | 2.0   | 0.1                     | 3.1   | SSW                     | SW    | -             | -     | 1.0                  | 1.5   | 17.5                  | 27.0  |
| 9       | 14.0                 | 21.0  | 30.0                 | 33.0  | 20.0                | 28.0  | 16.0              | 21.0  | 64.0                  | 51.0   | 2.0                       | 4.0   | 0.5                     | 3.6   | NE                      | NW    | -             | -     | 1.0                  | 1.5   | 18.0                  | 28.0  |
| 10      | 17.5                 | 18.5  | 30.0                 | 31.0  | 21.0                | 25.5  | 15.0              | 15.5  | 49.0                  | 28.0   | 4.0                       | 2.0   | 1.1                     | 3.4   | NE                      | NE    | -             | 2.4   | 1.0                  | 1.0   | 18.5                  | 23.5  |
| 11      | 14.0                 | 17.5  | 27.0                 | 31.0  | 17.5                | 26.0  | 13.0              | 20.0  | 56.0                  | 55.0   | 4.0                       | -     | 0.4                     | 7.6   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 16.5                  | 25.0  |
| 12      | 16.0                 | 19.0  | 28.0                 | 31.0  | 19.0                | 26.5  | 17.0              | 18.5  | 81.0                  | 39.0   | 2.0                       | -     | 0.8                     | 4.4   | NE                      | SE    | 2.0           | 3.0   | 0.5                  | 1.0   | 17.5                  | 24.5  |
| 13      | 17.5                 | 18.0  | 24.0                 | 30.0  | 18.5                | 19.0  | 17.0              | 17.5  | 85.0                  | 76.0   | 2.0                       | 4.0   | 2.2                     | 3.7   | NW                      | NE    | 2.8           | -     | 0.8                  | 1.0   | 18.0                  | 23.5  |
| 14      | 15.0                 | 18.0  | 18.0                 | 29.0  | 17.5                | 25.0  | 16.5              | 20.0  | 85.0                  | 61.0   | 4.0                       | 2.0   | 2.4                     | 2.5   | SW                      | SW    | 9.8           | -     | 1.8                  | 1.0   | 16.5                  | 26.0  |
| 15      | 12.0                 | 18.0  | 27.0                 | 31.0  | 20.0                | 26.0  | 15.0              | 20.0  | 56.0                  | 55.0   | -                         | -     | 0.1                     | 2.3   | NW                      | SW    | -             | -     | 1.0                  | 1.0   | 16.5                  | 26.5  |
| 16      | 12.0                 | 19.0  | 28.0                 | 32.0  | 19.0                | 27.5  | 15.0              | 22.5  | 63.0                  | 59.0   | 2.0                       | 2.0   | 0.1                     | 2.2   | NW                      | SE    | -             | -     | 1.0                  | 1.5   | 16.0                  | 27.0  |
| 17      | 13.0                 | 20.0  | 29.0                 | 32.5  | 19.0                | 28.0  | 16.0              | 23.5  | 72.0                  | 60.0   | 2.0                       | 2.0   | 0.1                     | 2.3   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 17.0                  | 27.5  |
| 18      | 13.5                 | 20.0  | 29.5                 | 33.0  | 20.0                | 29.0  | 16.0              | 25.0  | 64.0                  | 71.0   | -                         | -     | 0.1                     | 2.6   | NE                      | SSW   | -             | -     | 1.0                  | 2.0   | 13.3                  | 27.5  |
| 19      | 15.0                 | 20.0  | 30.0                 | 33.0  | 20.0                | 29.0  | 16.0              | 24.0  | 64.0                  | 64.0   | 2.0                       | 2.0   | 0.1                     | 2.4   | NE                      | SW    | -             | -     | 1.5                  | 2.0   | 18.0                  | 28.0  |
| 20      | 16.0                 | 21.0  | 30.5                 | 34.0  | 21.0                | 30.0  | 17.0              | 25.0  | 65.0                  | 65.0   | 2.0                       | -     | 0.2                     | 2.6   | NE                      | SSW   | -             | -     | 1.5                  | 2.0   | 18.0                  | 28.5  |
| 21      | 16.0                 | 22.0  | 31.0                 | 35.0  | 21.0                | 30.0  | 17.0              | 24.0  | 65.0                  | 59.0   | -                         | -     | 0.2                     | 2.1   | NW                      | SW    | -             | -     | 1.5                  | 2.0   | 17.5                  | 29.0  |
| 22      | 15.0                 | 25.0  | 31.0                 | 36.0  | 20.0                | 30.0  | 16.0              | 28.0  | 64.0                  | 85.0   | 2.0                       | -     | 0.3                     | 2.4   | SSW                     | SE    | -             | -     | 1.5                  | 2.0   | 18.0                  | 29.0  |
| 23      | 16.0                 | 24.0  | 31.5                 | 36.0  | 22.0                | 31.0  | 18.5              | 25.0  | 62.0                  | 57.0   | 2.0                       | 2.0   | 0.2                     | 2.9   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 18.5                  | 29.5  |
| 24      | 17.0                 | 25.5  | 32.0                 | 36.5  | 24.0                | 32.0  | 19.0              | 29.0  | 60.0                  | 79.0   | -                         | 2.0   | 0.2                     | 3.0   | SW                      | SE    | -             | -     | 1.5                  | 2.0   | 20.5                  | 29.7  |
| 25      | 19.0                 | 23.5  | 33.0                 | 36.5  | 25.0                | 32.0  | 21.0              | 29.0  | 68.0                  | 79.0   | -                         | 2.0   | 0.3                     | 2.1   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 21.5                  | 30.0  |
| 26      | 19.0                 | 24.5  | 32.5                 | 36.0  | 25.0                | 32.0  | 21.0              | 29.0  | 68.0                  | 79.0   | 2.0                       | 4.0   | 1.1                     | 3.2   | NE                      | SW    | -             | -     | 1.5                  | 2.0   | 21.3                  | 20.0  |
| 27      | 15.5                 | 25.0  | 32.5                 | 36.0  | 24.5                | 30.0  | 19.5              | 29.0  | 57.0                  | 93.0   | 2.0                       | 2.0   | 0.5                     | 2.9   | NE                      | SW    | -             | -     | 1.5                  | 2.0   | 19.5                  | 30.0  |
| 28      | 15.0                 |       | 32.0                 |       | 22.0                |       | 18.0              |       | 66.0                  |        | 2.0                       |       | 0.3                     |       | SW                      |       | -             |       | 1.5                  |       | 19.5                  |       |
| Total   | 416.0                | 568.5 | 820.0                | 937.0 | 568.5               | 776.0 | 457.5             | 612.0 | 1775.0                | 1601.0 | 46.0                      | 38.0  | 12.7                    | 78.7  |                         |       | 14.6          | 5.4   | 33.1                 | 43.0  | 495.1                 | 720.2 |
| Average | 14.9                 | 20.3  | 29.3                 | 33.5  | 20.3                | 27.7  | 16.3              | 21.9  | 63.4                  | 57.2   | 1.6                       | 1.4   | 0.5                     | 2.8   |                         |       |               |       |                      |       | 17.7                  | 25.7  |
|         | 17.6                 |       | 31.4                 |       | 24.0                |       | 19.1              |       | 60.3                  |        | 1.5                       |       | 1.6                     |       |                         |       | 20.0          |       | 76.1                 |       | 21.7                  |       |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 24.0  |                      | 36.0   |                     | 30.0   |                   | 28.0  |                       | 85.0   |                           | -     |                         | 2.3   |                         | SW    |               | ..    |                      | 2.0   |                       | 31.0  |
| 1       | 17.0                 | 24.0  | 33.0                 | 37.0   | 24.0                | 34.0   | 20.0              | 32.0  | 68.0                  | 86.0   | 2.0                       | -     | 0.2                     | 2.6   | SE                      | SW    | -             | -     | 1.5                  | 2.5   | 20.0                  | 31.0  |
| 2       | 18.0                 | 26.0  | 34.0                 | 39.0   | 26.0                | 34.0   | 21.0              | 32.0  | 62.0                  | 86.0   | 2.0                       | -     | 0.1                     | 2.6   | SE                      | SSW   | -             | -     | 2.0                  | 2.5   | 22.0                  | 31.5  |
| 3       | 18.5                 | 24.5  | 35.0                 | 38.5   | 25.0                | 34.5   | 21.0              | 32.0  | 68.0                  | 83.0   | 2.0                       | 2.0   | 0.3                     | 4.0   | SW                      | NW    | -             | -     | 2.0                  | 2.5   | 21.5                  | 31.0  |
| 4       | 18.0                 | 24.5  | 36.0                 | 38.5   | 23.0                | 34.5   | 18.0              | 32.5  | 59.0                  | 83.0   | 2.0                       | 2.0   | 0.6                     | 2.7   | NW                      | SW    | -             | -     | 2.0                  | 2.5   | 21.0                  | 31.5  |
| 5       | 20.0                 | 24.0  | 36.0                 | 37.0   | 25.0                | 28.0   | 21.0              | 22.0  | 68.0                  | 57.0   | 2.0                       | 4.0   | 0.4                     | 5.5   | NW                      | NE    | -             | -     | 2.0                  | 2.5   | 22.0                  | 28.0  |
| 6       | 19.0                 | 24.0  | 30.0                 | 36.0   | 23.0                | 32.0   | 18.0              | 27.0  | 59.0                  | 67.0   | 2.0                       | -     | 0.7                     | 2.5   | NW                      | SW    | -             | -     | 2.0                  | 2.5   | 20.5                  | 31.0  |
| 7       | 17.5                 | 25.5  | 34.0                 | 36.0   | 24.0                | 32.0   | 18.0              | 19.0  | 53.0                  | 24.0   | 2.0                       | 2.0   | 0.6                     | 2.9   | NE                      | SE    | -             | -     | 1.5                  | 2.5   | 20.2                  | 30.5  |
| 8       | 18.5                 | 24.0  | 33.0                 | 36.0   | 24.0                | 30.0   | 15.0              | 17.5  | 33.0                  | 21.0   | 4.0                       | 4.0   | 0.3                     | 4.6   | NE                      | NW    | -             | -     | 1.5                  | 2.0   | 20.0                  | 29.0  |
| 9       | 20.5                 | 24.0  | 32.0                 | 34.0   | 21.0                | 30.0   | 16.5              | 21.0  | 53.0                  | 42.0   | 2.0                       | -     | 1.1                     | 2.1   | SSW                     | SE    | -             | -     | 1.5                  | 2.0   | 20.0                  | 31.0  |
| 10      | 17.0                 | 14.5  | 35.0                 | 37.5   | 24.0                | 34.0   | 16.0              | 21.0  | 39.0                  | 27.0   | 2.0                       | -     | 0.3                     | 2.4   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 20.4                  | 31.0  |
| 11      | 20.0                 | 25.5  | 36.0                 | 37.5   | 25.0                | 32.0   | 17.0              | 21.0  | 41.0                  | 34.0   | 2.0                       | -     | 0.4                     | 3.5   | NE                      | SW    | -             | -     | 1.5                  | 2.0   | 22.0                  | 30.5  |
| 12      | 18.0                 | 24.0  | 35.0                 | 38.0   | 24.0                | 34.0   | 18.0              | 20.0  | 53.0                  | 23.0   | -                         | 4.0   | 0.7                     | 4.2   | SW                      | SW    | -             | -     | 1.5                  | 2.5   | 21.5                  | 30.7  |
| 13      | 18.5                 | 26.0  | 35.5                 | 39.0   | 24.0                | 34.0   | 17.0              | 22.0  | 46.0                  | 32.0   | 2.0                       | 2.0   | 0.8                     | 3.5   | SW                      | SW    | -             | -     | 2.0                  | 2.5   | 21.5                  | 31.8  |
| 14      | 18.0                 | 28.0  | 36.0                 | 40.0   | 24.0                | 34.0   | 17.0              | 21.0  | 46.0                  | 27.0   | 2.0                       | -     | 0.6                     | 3.0   | SE                      | SW    | -             | -     | 2.0                  | 2.5   | 21.0                  | 32.0  |
| 15      | 19.0                 | 25.0  | 37.0                 | 38.0   | 25.5                | 32.0   | 17.5              | 20.0  | 38.0                  | 29.0   | 2.0                       | 4.0   | 0.3                     | 1.5   | SE                      | NW    | -             | -     | 2.0                  | 2.5   | 22.0                  | 28.5  |
| 16      | 20.0                 | 23.0  | 33.0                 | 34.0   | 23.0                | 24.0   | 16.0              | 19.0  | 45.0                  | 60.0   | 2.0                       | 2.0   | 1.4                     | 5.0   | SE                      | SW    | 0.6           | -     | 0.5                  | 1.5   | 20.0                  | 25.0  |
| 17      | 18.0                 | 22.0  | 24.0                 | 35.0   | 23.0                | 32.0   | 20.0              | 21.0  | 75.0                  | 34.0   | 2.0                       | 2.0   | 0.8                     | 4.5   | SSW                     | NW    | -             | -     | 1.0                  | 1.0   | 19.5                  | 30.0  |
| 18      | 19.5                 | 25.0  | 32.5                 | 37.0   | 25.0                | 34.0   | 19.0              | 19.5  | 54.0                  | 19.0   | 2.0                       | -     | 1.3                     | 3.2   | NE                      | SW    | 6.8           | -     | 0.8                  | 2.0   | 21.3                  | 31.3  |
| 19      | 19.0                 | 26.0  | 35.0                 | 37.0   | 26.0                | 34.0   | 17.0              | 20.0  | 36.0                  | 23.0   | 2.0                       | 2.0   | 0.5                     | 3.4   | NE                      | SW    | -             | -     | 2.0                  | 2.5   | 20.5                  | 31.2  |
| 20      | 18.0                 | 26.0  | 35.5                 | 37.0   | 26.0                | 34.0   | 17.0              | 20.0  | 36.0                  | 23.0   | 2.0                       | 2.0   | 0.2                     | 2.5   | SE                      | SSW   | -             | -     | 2.0                  | 3.0   | 21.0                  | 31.0  |
| 21      | 19.0                 | 25.0  | 36.0                 | 36.5   | 25.0                | 32.0   | 18.0              | 18.5  | 47.0                  | 20.0   | 2.0                       | 4.0   | 0.4                     | 2.3   | SW                      | NE    | -             | -     | 2.0                  | 2.3   | 22.0                  | 29.0  |
| 22      | 19.5                 | 26.0  | 34.5                 | 35.0   | 24.5                | 34.0   | 19.0              | 20.0  | 57.0                  | 23.0   | 2.0                       | 2.0   | 1.7                     | 3.0   | SE                      | SW    | 0.4           | -     | 1.0                  | 2.5   | 22.0                  | 32.0  |
| 23      | 18.0                 | 26.0  | 36.0                 | 38.0   | 24.0                | 34.0   | 18.0              | 19.5  | 23.0                  | 19.0   | 2.0                       | 2.0   | 0.6                     | 3.8   | SW                      | NW    | -             | -     | 1.0                  | 2.5   | 21.0                  | 31.0  |
| 24      | 20.0                 | 31.0  | 36.0                 | 39.5   | 30.0                | 36.0   | 18.0              | 21.0  | 26.0                  | 22.0   | 4.0                       | -     | 0.6                     | 4.3   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 21.5                  | 31.0  |
| 25      | 21.0                 | 29.0  | 38.0                 | 38.5   | 29.0                | 34.0   | 18.0              | 20.0  | 29.0                  | 23.0   | 2.0                       | -     | 0.6                     | 4.3   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.5                  | 31.5  |
| 26      | 19.0                 | 29.0  | 37.0                 | 39.0   | 28.0                | 34.0   | 17.0              | 19.0  | 28.0                  | 19.0   | 2.0                       | 2.0   | 0.5                     | 3.3   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 31.5  |
| 27      | 17.5                 | 28.0  | 37.0                 | 40.0   | 26.5                | 34.0   | 17.0              | 19.0  | 33.0                  | 19.0   | 2.0                       | 2.0   | 0.4                     | 2.6   | SSW                     | SW    | -             | -     | 2.0                  | 3.0   | 21.5                  | 32.0  |
| 28      | 18.5                 | 27.5  | 37.0                 | 40.0   | 28.0                | 36.0   | 19.0              | 20.0  | 39.0                  | 18.0   | -                         | -     | 0.5                     | 3.2   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 31.5  |
| 29      | 19.0                 | 28.0  | 38.0                 | 41.0   | 28.0                | 36.0   | 17.0              | 21.0  | 18.0                  | 22.0   | 2.0                       | -     | 0.3                     | 3.7   | NE                      | SSW   | -             | -     | 2.0                  | 3.0   | 22.5                  | 32.0  |
| 30      | 19.0                 | 27.5  | 38.0                 | 41.5   | 27.0                | 36.0   | 17.0              | 18.0  | 32.0                  | 10.0   | 2.0                       | 4.0   | 0.5                     | 4.5   | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 30.5  |
| 31      | 20.0                 |       | 38.0                 |        | 30.0                |        | 17.0              |       | 21.0                  |        | 4.0                       |       | 0.8                     |       | NW                      |       | -             |       | 2.0                  |       | 21.0                  |       |
| Total   | 582.5                | 786.5 | 1083.0               | 1167.0 | 784.5               | 1023.0 | 555.0             | 683.5 | 1385.0                | 1160.0 | 64.0                      | 48.0  | 18.5                    | 103.3 |                         |       | 7.8           | - *   | 52.8                 | 75.8  | 657.9                 | 950.5 |
| Average | 18.8                 | 25.4  | 34.9                 | 37.6   | 25.3                | 33.0   | 17.9              | 22.0  | 44.7                  | 37.4   | 2.1                       | 1.5   | 0.6                     | 3.3   |                         |       |               |       |                      |       | 21.2                  | 30.7  |
|         | 22.1                 |       | 36.3                 |        | 29.2                |        | 20.0              |       | 41.0                  |        | 1.8                       |       | 2.0                     |       |                         |       | 7.8 *         |       | 128.6                |       | 25.9                  |       |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPM     |                      | 27.5  |                      | 42.0   |                     | 36.0   |                   | 19.0  |                       | 14.0  |                           | 4.0   |                         | 3.2   |                         | SW    |               | ..    |                      | 3.0   |                       | ..      |
| 1       | 22.0                 | 26.0  | 39.0                 | 37.0   | 28.0                | 27.0   | 19.0              | 17.0  | 39.0                  | 32.0  | 6.0                       | 10.0  | 1.7                     | 5.0   | NE                      | NW    | -             | -     | 2.0                  | 2.5   | 23.5                  | 27.5    |
| 2       | 18.0                 | 27.0  | 26.0                 | 38.0   | 25.0                | 32.0   | 18.0              | 19.0  | 47.0                  | 24.0  | 2.0                       | -     | 2.9                     | 2.7   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 20.5                  | 31.0    |
| 3       | 22.0                 | 28.0  | 32.0                 | 40.0   | 27.0                | 36.0   | 17.0              | 21.0  | 32.0                  | 22.0  | 6.0                       | -     | 2.0                     | 3.5   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.5                  | 33.0    |
| 4       | 21.5                 | 29.0  | 36.5                 | 41.0   | 29.5                | 36.0   | 21.0              | 23.0  | 43.0                  | 30.0  | 4.0                       | -     | 0.8                     | 3.3   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 23.5                  | 34.0    |
| 5       | 24.0                 | 29.0  | 37.0                 | 40.0   | 28.0                | 29.0   | 21.0              | 21.5  | 51.0                  | 43.0  | 2.0                       | 4.0   | 2.5                     | 5.6   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 24.0                  | 31.5    |
| 6       | 24.5                 | 30.0  | 35.5                 | 41.0   | 30.0                | 31.0   | 22.0              | 23.0  | 47.0                  | 48.0  | 4.0                       | 6.0   | 1.6                     | 4.1   | SE                      | NW    | -             | -     | 2.5                  | 3.0   | 24.0                  | 32.0    |
| 7       | 25.0                 | 29.5  | 37.0                 | 39.0   | 28.0                | 34.0   | 20.0              | 22.0  | 45.0                  | 32.0  | 2.0                       | -     | 1.3                     | 3.4   | SW                      | SW    | -             | -     | 2.5                  | 3.0   | 25.0                  | 31.5    |
| 8       | 24.0                 | 28.5  | 36.0                 | 37.5   | 29.0                | 32.0   | 21.0              | 21.5  | 46.0                  | 34.0  | 4.0                       | 6.0   | 3.0                     | 4.5   | NE                      | SW    | -             | 0.4   | 2.0                  | 3.0   | 23.5                  | 31.5    |
| 9       | 22.5                 | 26.0  | 35.0                 | 37.0   | 28.5                | 30.0   | 20.5              | 21.0  | 42.0                  | 42.0  | -                         | 4.0   | 1.4                     | 5.2   | NE                      | SW    | -             | -     | 2.5                  | 2.5   | 24.0                  | 32.0    |
| 10      | 24.0                 | 29.0  | 33.0                 | 38.0   | 28.0                | 34.0   | 22.0              | 22.5  | 57.0                  | 32.0  | 4.0                       | 2.0   | 3.6                     | 3.5   | SE                      | SW    | 0.6           | -     | 2.0                  | 3.0   | 24.0                  | 32.5    |
| 11      | 24.0                 | 29.0  | 36.0                 | 40.0   | 28.5                | 34.0   | 20.5              | 22.0  | 42.0                  | 32.0  | 4.0                       | 2.0   | 0.7                     | 4.2   | SW                      | NW    | -             | 1.2   | 2.0                  | 3.0   | 24.0                  | 33.0    |
| 12      | 21.0                 | 21.5  | 37.0                 | 38.0   | 21.0                | 30.0   | 19.0              | 21.0  | 82.0                  | 42.0  | 4.0                       | 2.0   | 2.0                     | 4.1   | NW                      | SW    | 1.6           | -     | 1.5                  | 1.5   | 22.5                  | 30.5    |
| 13      | 22.0                 | 27.0  | 33.0                 | 37.0   | 27.0                | 32.0   | 21.0              | 21.5  | 56.0                  | 34.0  | 2.0                       | 2.0   | 2.1                     | 3.0   | SW                      | SW    | 0.6           | 1.4   | 1.0                  | 2.0   | 23.5                  | 32.0    |
| 14      | 23.0                 | 28.0  | 34.0                 | 37.0   | 28.0                | 28.5   | 21.0              | 21.5  | 51.0                  | 48.0  | 4.0                       | 4.0   | 1.4                     | 6.3   | W                       | NW    | -             | -     | 2.0                  | 1.5   | 24.0                  | 29.5    |
| 15      | 21.0                 | 27.0  | 29.0                 | 37.0   | 27.0                | 34.0   | 20.0              | 22.0  | 50.0                  | 32.0  | 2.0                       | 2.0   | 1.9                     | 4.7   | NW                      | SW    | 1.4           | -     | 0.5                  | 2.0   | 22.5                  | 32.5    |
| 16      | 21.0                 | 28.0  | 35.0                 | 40.0   | 28.0                | 35.0   | 21.0              | 23.0  | 51.0                  | 33.0  | 2.0                       | 2.0   | 2.0                     | 4.2   | NE                      | SW    | 1.2           | -     | 1.0                  | 3.0   | 23.5                  | 33.5    |
| 17      | 25.0                 | 32.0  | 37.0                 | 42.0   | 32.0                | 36.0   | 24.0              | 25.0  | 49.0                  | 38.0  | 2.0                       | 4.0   | 0.2                     | 6.9   | SW                      | SE    | -             | -     | 2.5                  | 3.5   | 26.5                  | 34.0    |
| 18      | 25.0                 | 30.0  | 36.0                 | 43.0   | 30.5                | 38.0   | 22.5              | 23.0  | 44.0                  | 24.0  | 2.0                       | -     | 2.4                     | 3.7   | SW                      | SW    | -             | -     | 2.5                  | 3.5   | 24.5                  | 34.5    |
| 19      | 24.0                 | 30.0  | 40.0                 | 44.0   | 32.0                | 36.0   | 21.0              | 24.0  | 34.0                  | 34.0  | 2.0                       | 2.0   | 0.3                     | 2.6   | SE                      | SW    | -             | -     | 2.5                  | 3.5   | 24.5                  | 34.5    |
| 20      | 25.0                 | 31.0  | 38.0                 | 44.0   | 31.0                | 38.0   | 22.0              | 23.0  | 40.0                  | 24.0  | 2.0                       | -     | 0.6                     | 4.3   | SW                      | SW    | -             | -     | 2.5                  | 3.5   | 25.0                  | 35.0    |
| 21      | 25.0                 | 32.0  | 39.0                 | 44.0   | 32.0                | 38.0   | 21.0              | 22.0  | 34.0                  | 20.0  | 2.0                       | 4.0   | 0.4                     | 4.3   | NW                      | SW    | -             | -     | 2.5                  | 4.0   | 25.0                  | 34.0    |
| 22      | 25.0                 | 34.0  | 40.0                 | 43.0   | 34.0                | 38.0   | 20.0              | 21.0  | 23.0                  | 17.0  | 4.0                       | 4.0   | 1.2                     | 4.6   | NE                      | SW    | -             | -     | 3.0                  | 4.0   | 25.0                  | 34.0    |
| 23      | 27.0                 | 33.0  | 39.5                 | 42.0   | 32.0                | 36.0   | 18.0              | 20.0  | 20.0                  | 18.0  | 4.0                       | 2.0   | 1.6                     | 4.6   | NE                      | NW    | -             | -     | 3.0                  | 4.0   | 24.5                  | 34.0    |
| 24      | 25.0                 | 33.0  | 39.0                 | 42.0   | 32.0                | 38.0   | 20.0              | 21.0  | 29.0                  | 17.0  | 4.0                       | -     | 1.4                     | 3.5   | NE                      | NE    | -             | -     | 3.0                  | 4.0   | 24.5                  | 35.0    |
| 25      | 26.0                 | 32.0  | 39.0                 | 43.0   | 32.0                | 38.0   | 21.0              | 22.0  | 34.0                  | 20.0  | 2.0                       | 2.0   | 0.6                     | 3.9   | NE                      | SW    | -             | -     | 3.0                  | 4.0   | 24.0                  | 34.0    |
| 26      | 21.0                 | 31.0  | 39.0                 | 43.0   | 30.0                | 36.0   | 19.0              | 20.0  | 31.0                  | 18.0  | 2.0                       | 4.0   | 0.6                     | 4.3   | SW                      | NW    | -             | -     | 3.0                  | 4.0   | 23.5                  | 32.0    |
| 27      | 23.0                 | 32.0  | 37.0                 | 42.0   | 32.0                | 38.0   | 20.0              | 21.0  | 29.0                  | 17.0  | 4.0                       | 4.0   | 1.4                     | 5.8   | SE                      | SW    | -             | -     | 3.0                  | 4.0   | 23.5                  | 33.0    |
| 28      | 26.0                 | 33.0  | 40.0                 | 42.0   | 32.0                | 38.0   | 21.0              | 23.0  | 34.0                  | 24.0  | 4.0                       | 2.0   | 2.1                     | 5.8   | SE                      | SW    | -             | 1.0   | 3.0                  | 4.0   | 25.0                  | 34.5    |
| 29      | 26.5                 | 33.0  | 40.0                 | 43.0   | 32.0                | 36.0   | 20.0              | 24.0  | 29.0                  | 34.0  | -                         | -     | 2.9                     | 5.3   | SE                      | SW    | -             | -     | 3.0                  | 4.0   | 25.5                  | 34.5    |
| 30      | 27.0                 |       | 37.0                 |        | 32.0                |        | 21.0              |       | 34.0                  |       | 2.0                       |       | 3.1                     |       | SW                      |       | -             |       | 3.0                  |       | 26.0                  |         |
| Total   | 710.0                | 886.0 | 1091.5               | 1216.5 | 886.0               | 1034.5 | 614.5             | 650.5 | 1245.0                | 879.0 | 88.0                      | 78.0  | 49.8                    | 129.7 |                         |       | 5.4           | 4.0   | 69.0                 | 95.0  | 721.5                 | 950.5 * |
| Average | 23.7                 | 29.5  | 36.4                 | 40.6   | 29.5                | 34.5   | 20.5              | 21.7  | 41.5                  | 29.3  | 2.9                       | 2.6   | 1.7                     | 4.3   |                         |       |               |       |                      |       | 24.1                  | 32.8 *  |
|         | 26.6                 |       | 38.5                 |        | 32.0                |        | 21.1              |       | 35.4                  |       | 2.8                       |       | 3.0                     |       |                         |       | 9.4 *         |       | 164.0                |       | 28.4 *                |         |

## Twice Daily Climatic Data

Station Code : EMP40F2

Local River/Basin : Arpa

Station Name : Ghatora

Sub-Division : MMSD I,CWC,Raipur

- 0.0 N.A.

| May-18  |                      |        |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 33.0   |                      | 44.0   |                     | 38.0   |                   | 22.0  |                       | 20.0  |                           | 4.0   |                         | 4.6   |                         | SE    |               | ..    |                      | 4.0   |                       | 34.5   |
| 1       | 26.0                 | 28.0   | 36.0                 | 41.0   | 32.0                | 34.0   | 20.0              | 21.0  | 29.0                  | 27.0  | 2.0                       | 2.0   | 3.5                     | 4.9   | SE                      | SW    | -             | 5.2   | 3.0                  | 2.8   | 25.5                  | 30.0   |
| 2       | 24.0                 | 30.0   | 34.0                 | 40.0   | 32.0                | 34.0   | 21.0              | 20.0  | 34.0                  | 23.0  | 2.0                       | 6.0   | 0.9                     | 5.9   | SW                      | SE    | -             | -     | 2.0                  | 3.0   | 24.0                  | 31.0   |
| 3       | 23.0                 | 27.0   | 29.0                 | 37.0   | 26.0                | 34.0   | 19.0              | 23.0  | 49.0                  | 36.0  | 6.0                       | 2.0   | 4.0                     | 3.7   | NE                      | SW    | 4.4           | -     | 2.0                  | 3.0   | 23.0                  | 33.0   |
| 4       | 25.0                 | 29.0   | 35.0                 | 39.0   | 29.0                | 36.0   | 22.0              | 24.0  | 52.0                  | 34.0  | 4.0                       | 2.0   | 0.8                     | 7.0   | SW                      | SE    | -             | -     | 2.0                  | 3.0   | 25.3                  | 34.0   |
| 5       | 27.5                 | 34.5   | 37.0                 | 43.5   | 30.0                | 38.0   | 21.0              | 22.0  | 42.0                  | 20.0  | 4.0                       | 4.0   | 2.9                     | 7.5   | NW                      | SW    | -             | -     | 2.5                  | 4.0   | 25.5                  | 34.5   |
| 6       | 28.0                 | 35.0   | 41.0                 | 44.0   | 32.0                | 40.0   | 22.0              | 23.0  | 39.0                  | 20.0  | 4.0                       | 4.0   | 0.8                     | 6.8   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 28.0                  | 35.5   |
| 7       | 28.5                 | 35.0   | 41.5                 | 45.0   | 34.0                | 40.0   | 23.0              | 24.0  | 36.0                  | 23.0  | 6.0                       | 4.0   | 2.0                     | 5.2   | SSW                     | SW    | -             | -     | 3.0                  | 4.0   | 28.0                  | 37.0   |
| 8       | 26.0                 | 35.0   | 42.0                 | 44.5   | 34.0                | 40.0   | 22.0              | 23.0  | 32.0                  | 20.0  | 2.0                       | 2.0   | 0.7                     | 4.0   | NW                      | SW    | -             | -     | 3.0                  | 4.0   | 27.5                  | 35.5   |
| 9       | 27.0                 | 34.0   | 42.0                 | 44.5   | 34.0                | 40.0   | 22.0              | 23.0  | 32.0                  | 20.0  | 2.0                       | 2.0   | 0.6                     | 3.2   | SW                      | NW    | -             | -     | 3.0                  | 4.0   | 27.0                  | 35.5   |
| 10      | 28.0                 | 34.0   | 42.0                 | 44.0   | 34.0                | 38.0   | 21.0              | 23.0  | 27.0                  | 24.0  | 2.0                       | -     | 1.8                     | 3.8   | NW                      | SW    | -             | -     | 3.5                  | 4.5   | 27.5                  | 35.0   |
| 11      | 28.0                 | 36.0   | 41.0                 | 44.0   | 36.0                | 38.0   | 22.0              | 23.0  | 26.0                  | 24.0  | 2.0                       | 4.0   | 1.2                     | 2.6   | NE                      | SW    | -             | -     | 3.0                  | 4.5   | 27.5                  | 36.0   |
| 12      | 26.0                 | 33.0   | 41.0                 | 43.0   | 32.0                | 34.0   | 22.0              | 22.0  | 39.0                  | 32.0  | 2.0                       | 4.0   | 1.3                     | 6.0   | NW                      | SW    | -             | -     | 3.0                  | 4.0   | 27.0                  | 34.5   |
| 13      | 26.0                 | 31.0   | 37.0                 | 41.0   | 30.0                | 36.0   | 21.0              | 23.0  | 42.0                  | 30.0  | 2.0                       | 4.0   | 3.5                     | 6.4   | SSW                     | NW    | -             | -     | 3.0                  | 4.0   | 26.5                  | 32.5   |
| 14      | 25.0                 | 28.0   | 39.0                 | 40.0   | 27.0                | 36.0   | 21.0              | 22.5  | 56.0                  | 26.0  | 6.0                       | 4.0   | 3.4                     | 5.8   | NE                      | SE    | 1.2           | -     | 2.0                  | 4.0   | 25.0                  | 33.5   |
| 15      | 23.0                 | 27.0   | 37.5                 | 40.0   | 28.0                | 36.0   | 22.5              | 24.0  | 54.0                  | 34.0  | 2.0                       | -     | 3.3                     | 4.8   | NW                      | SW    | 7.2           | -     | 3.0                  | 4.0   | 24.5                  | 33.0   |
| 16      | 27.0                 | 34.0   | 38.0                 | 42.0   | 32.0                | 34.0   | 22.0              | 23.0  | 39.0                  | 36.0  | 2.0                       | 4.0   | 0.9                     | 5.6   | SE                      | SW    | 0.2           | -     | 2.5                  | 4.0   | 27.5                  | 34.0   |
| 17      | 25.5                 | 33.0   | 34.5                 | 43.0   | 32.0                | 38.0   | 22.0              | 23.0  | 39.0                  | 24.0  | 2.0                       | 2.0   | 0.9                     | 2.9   | SSW                     | NE    | -             | -     | 2.5                  | 3.5   | 27.5                  | 34.5   |
| 18      | 27.0                 | 34.0   | 40.0                 | 42.0   | 32.0                | 38.0   | 21.0              | 22.0  | 34.0                  | 20.0  | 4.0                       | 2.0   | 1.7                     | 8.3   | SE                      | SW    | -             | -     | 2.5                  | 4.0   | 27.0                  | 34.0   |
| 19      | 26.5                 | 33.5   | 41.0                 | 44.0   | 32.0                | 38.0   | 23.0              | 23.0  | 44.0                  | 24.0  | 2.0                       | 2.0   | 2.7                     | 6.1   | SE                      | NW    | -             | -     | 3.0                  | 4.0   | 26.5                  | 37.0   |
| 20      | 27.0                 | 34.0   | 41.0                 | 44.0   | 34.0                | 38.0   | 22.0              | 23.0  | 32.0                  | 24.0  | 2.0                       | -     | 3.7                     | 5.4   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 27.0                  | 36.0   |
| 21      | 27.0                 | 32.0   | 40.0                 | 42.0   | 32.0                | 38.0   | 22.0              | 26.0  | 39.0                  | 36.0  | 2.0                       | 2.0   | 4.1                     | 4.0   | SE                      | SE    | -             | -     | 2.0                  | 3.0   | 27.2                  | 35.5   |
| 22      | 29.5                 | 34.0   | 40.5                 | 44.0   | 34.0                | 38.0   | 24.0              | 25.0  | 41.0                  | 32.0  | 4.0                       | 4.0   | 1.0                     | 4.2   | SW                      | NW    | -             | -     | 2.5                  | 3.5   | 29.5                  | 36.5   |
| 23      | 27.5                 | 32.5   | 40.5                 | 44.5   | 32.0                | 40.0   | 23.0              | 24.0  | 44.0                  | 23.0  | 4.0                       | -     | 2.2                     | 4.6   | SW                      | SSW   | -             | -     | 3.0                  | 4.0   | 28.0                  | 36.5   |
| 24      | 30.0                 | 35.0   | 42.0                 | 43.0   | 34.0                | 40.0   | 24.0              | 25.0  | 41.0                  | 27.0  | 4.0                       | 2.0   | 0.9                     | 5.7   | SW                      | SE    | -             | -     | 3.0                  | 4.0   | 29.2                  | 35.5   |
| 25      | 27.5                 | 33.0   | 41.0                 | 44.0   | 34.0                | 40.0   | 23.0              | 26.0  | 36.0                  | 30.0  | 2.0                       | 2.0   | 2.4                     | 4.2   | SE                      | NE    | 0.4           | -     | 2.5                  | 4.0   | 27.5                  | 37.0   |
| 26      | 28.0                 | 33.5   | 42.0                 | 43.0   | 34.0                | 38.0   | 24.0              | 26.0  | 41.0                  | 36.0  | 2.0                       | 2.0   | 2.4                     | 3.1   | SE                      | NW    | -             | -     | 3.0                  | 4.0   | 27.8                  | 36.5   |
| 27      | 29.0                 | 34.0   | 40.0                 | 42.0   | 34.0                | 38.0   | 23.0              | 24.0  | 36.0                  | 28.0  | 4.0                       | 4.0   | 1.9                     | 5.4   | SE                      | SW    | -             | -     | 3.0                  | 4.0   | 28.0                  | 35.0   |
| 28      | 30.0                 | 35.0   | 40.0                 | 43.0   | 34.0                | 40.0   | 24.0              | 25.0  | 41.0                  | 27.0  | 4.0                       | 4.0   | 1.0                     | 8.3   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 29.0                  | 35.5   |
| 29      | 30.0                 | 36.0   | 42.0                 | 45.0   | 36.0                | 38.0   | 24.0              | 26.0  | 34.0                  | 36.0  | 4.0                       | 6.0   | 2.5                     | 5.2   | SW                      | NE    | -             | -     | 3.0                  | 4.0   | 29.4                  | 36.0   |
| 30      | 29.0                 | 35.0   | 40.0                 | 44.0   | 34.0                | 40.0   | 25.0              | 26.0  | 46.0                  | 30.0  | 4.0                       | 2.0   | 3.8                     | 3.6   | NE                      | SE    | -             | -     | 3.0                  | 4.0   | 28.0                  | 36.0   |
| 31      | 28.0                 |        | 42.0                 |        | 32.0                |        | 23.0              |       | 44.0                  |       | 4.0                       |       | 5.7                     |       | SW                      |       | -             |       | 3.0                  |       | 27.0                  |        |
| Total   | 839.5                | 1018.0 | 1219.5               | 1324.0 | 1002.0              | 1168.0 | 690.5             | 729.5 | 1220.0                | 846.0 | 98.0                      | 86.0  | 68.6                    | 158.7 |                         |       | 13.4          | 5.2   | 85.5                 | 118.8 | 837.9                 | 1080.5 |
| Average | 27.1                 | 32.8   | 39.3                 | 42.7   | 32.3                | 37.7   | 22.3              | 23.5  | 39.4                  | 27.3  | 3.2                       | 2.8   | 2.2                     | 5.1   |                         |       |               |       |                      |       | 27.0                  | 34.9   |
|         | 30.0                 |        | 41.0                 |        | 35.0                |        | 22.9              |       | 33.3                  |       | 3.0                       |       | 3.7                     |       |                         |       | 18.6 *        |       | 204.3                |       | 30.9                  |        |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Jun-17  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPOPM   |                      | 32.0  |                      | 42.0   |                     | 39.0   |                   | 35.0  |                       | 75.5   |                           | 2.0   |                         | 5.1   |                         | NE    |               | -     |                      | 4.0   |                       | ..      |
| 1       | 30.0                 | 34.0  | 40.0                 | 43.0   | 36.0                | 32.0   | 34.0              | 30.0  | 87.0                  | 86.0   | 4.0                       | 6.0   | 2.6                     | 6.2   | SE                      | SE    | -             | -     | 3.0                  | 3.8   | 27.0                  | 29.0    |
| 2       | 29.0                 | 34.0  | 34.0                 | 43.0   | 34.0                | 32.0   | 31.0              | 30.0  | 80.0                  | 86.0   | 4.0                       | 6.0   | 2.3                     | 6.3   | NE                      | SE    | -             | -     | 3.0                  | 4.8   | 26.0                  | 29.0    |
| 3       | 30.0                 | 34.0  | 34.0                 | 43.0   | 36.0                | 40.0   | 33.0              | 37.0  | 81.0                  | 82.0   | 6.0                       | 6.0   | 4.3                     | 6.2   | NE                      | NE    | -             | -     | 3.2                  | 4.2   | 27.0                  | 30.0    |
| 4       | 31.0                 | 35.0  | 41.0                 | 44.0   | 38.0                | 36.0   | 34.0              | 33.0  | 75.0                  | 81.0   | 4.0                       | 4.0   | 6.4                     | 6.7   | NE                      | NW    | -             | -     | 3.4                  | 4.4   | 27.0                  | 31.0    |
| 5       | 32.0                 | 34.0  | 37.0                 | 44.0   | 36.0                | 40.0   | 34.0              | 37.0  | 87.0                  | 82.0   | 4.0                       | 4.0   | 5.6                     | 2.6   | NE                      | NE    | -             | -     | 3.6                  | 4.2   | 26.0                  | 30.0    |
| 6       | 30.0                 | 34.0  | 46.0                 | 40.0   | 34.0                | 37.0   | 32.0              | 33.0  | 86.0                  | 75.0   | 2.0                       | 2.0   | 5.1                     | 4.2   | NE                      | SE    | -             | -     | 4.0                  | 2.0   | 27.0                  | 30.0    |
| 7       | 28.0                 | 35.0  | 37.0                 | 42.0   | 33.0                | 40.0   | 31.0              | 37.0  | 86.0                  | 82.0   | 2.0                       | 2.0   | 2.2                     | 6.4   | SE                      | SE    | -             | 5.4   | 3.0                  | 3.4   | 26.0                  | 31.0    |
| 8       | 27.0                 | 32.0  | 42.0                 | 38.0   | 33.0                | 32.0   | 31.0              | 29.0  | 86.0                  | 79.0   | 2.0                       | 4.0   | 3.6                     | 3.3   | NW                      | SE    | -             | -     | 3.0                  | 3.2   | 27.0                  | 30.0    |
| 9       | 27.0                 | 33.0  | 43.0                 | 41.0   | 33.0                | 38.0   | 31.0              | 34.0  | 86.0                  | 75.0   | 2.0                       | 2.0   | 0.6                     | 0.3   | SW                      | SE    | -             | -     | 4.0                  | 3.0   | 27.0                  | 31.0    |
| 10      | 27.0                 | 32.0  | 41.0                 | 41.0   | 32.0                | 36.0   | 30.0              | 33.0  | 86.0                  | 87.0   | 4.0                       | -     | 0.1                     | 1.2   | NE                      | SE    | -             | 9.8   | 3.6                  | 3.8   | 26.0                  | 30.0    |
| 11      | 27.0                 | 25.0  | 37.0                 | 38.0   | 30.0                | 26.0   | 28.0              | 25.0  | 85.0                  | 92.0   | -                         | -     | 0.8                     | 2.2   | NE                      | NW    | -             | -     | 3.0                  | 3.8   | 25.0                  | 24.0    |
| 12      | 26.0                 | 28.0  | 29.0                 | 37.0   | 29.0                | 30.0   | 28.0              | 28.0  | 92.0                  | 85.0   | -                         | 8.0   | 2.8                     | 7.8   | NW                      | NE    | -             | -     | 1.4                  | 3.0   | 24.0                  | 23.0    |
| 13      | 23.0                 | 28.0  | 32.0                 | 35.0   | 29.0                | 34.0   | 28.0              | 31.0  | 92.0                  | 80.0   | 2.0                       | 2.0   | 2.2                     | 7.3   | SE                      | NE    | 41.6          | -     | 2.0                  | 4.0   | 22.0                  | 24.0    |
| 14      | 27.0                 | 31.0  | 34.0                 | 40.0   | 31.0                | 37.0   | 29.0              | 33.0  | 86.0                  | 75.0   | 4.0                       | 2.0   | 4.8                     | 12.6  | NE                      | NE    | -             | 7.6   | 3.0                  | 3.8   | 23.0                  | 26.0    |
| 15      | 30.0                 | 26.0  | 38.0                 | 42.0   | 34.0                | 28.0   | 31.0              | 27.0  | 80.0                  | 92.0   | 6.0                       | 2.0   | 2.2                     | 4.2   | NE                      | SW    | -             | -     | 2.8                  | 1.4   | 24.0                  | 26.0    |
| 16      | 25.0                 | 28.0  | 42.0                 | 36.0   | 30.0                | 34.0   | 28.0              | 31.0  | 93.0                  | 80.0   | 4.0                       | 4.0   | 5.1                     | 6.5   | NE                      | NE    | -             | -     | 2.4                  | 3.0   | 25.0                  | 26.0    |
| 17      | 27.0                 | 30.0  | 34.0                 | 40.0   | 31.0                | 38.0   | 29.0              | 33.0  | 85.0                  | 70.0   | 4.0                       | -     | 3.3                     | 4.5   | NE                      | NE    | -             | -     | 2.6                  | 3.4   | 24.0                  | 27.0    |
| 18      | 28.0                 | 31.0  | 38.0                 | 42.0   | 32.0                | 38.0   | 30.0              | 33.0  | 86.0                  | 70.0   | 6.0                       | 2.0   | 2.7                     | 5.2   | NE                      | SE    | -             | -     | 3.0                  | 3.6   | 25.0                  | 28.0    |
| 19      | 26.0                 | 31.0  | 39.0                 | 41.0   | 32.0                | 36.0   | 30.0              | 31.0  | 86.0                  | 69.0   | -                         | 2.0   | 3.5                     | 2.5   | NE                      | NE    | -             | -     | 3.4                  | 3.8   | 26.0                  | 28.0    |
| 20      | 27.0                 | 32.0  | 32.0                 | 42.0   | 34.0                | 38.0   | 31.0              | 33.0  | 80.0                  | 70.0   | 2.0                       | 4.0   | 3.4                     | 3.9   | NW                      | NE    | -             | -     | 3.2                  | 4.0   | 26.0                  | 29.0    |
| 21      | 25.0                 | 30.0  | 42.0                 | 38.0   | 30.0                | 32.0   | 28.0              | 29.0  | 85.0                  | 79.0   | 4.0                       | 4.0   | 3.3                     | 4.0   | NE                      | NE    | 5.4           | -     | 2.6                  | 3.0   | 27.0                  | 29.5    |
| 22      | 25.0                 | 27.0  | 33.0                 | 37.0   | 28.0                | 32.0   | 27.0              | 29.0  | 92.0                  | 79.0   | 4.0                       | 2.0   | 2.6                     | 6.4   | NE                      | SE    | 0.4           | -     | 2.8                  | 3.0   | 25.0                  | 28.0    |
| 23      | 25.0                 | 28.0  | 37.0                 | 38.0   | 29.0                | 32.0   | 27.0              | 29.0  | 85.0                  | 79.0   | 2.0                       | 4.0   | 3.1                     | 4.6   | NE                      | NE    | -             | 3.0   | 3.0                  | 3.2   | 25.0                  | 28.5    |
| 24      | 23.0                 | 25.0  | 37.0                 | 38.0   | 30.0                | 27.0   | 28.0              | 25.0  | 85.0                  | 85.0   | 4.0                       | 4.0   | 1.4                     | 4.4   | NE                      | NW    | 29.6          | -     | 2.6                  | 3.0   | 25.0                  | 27.0    |
| 25      | 24.0                 | 25.0  | 38.0                 | 32.0   | 28.0                | 30.0   | 26.0              | 29.0  | 85.0                  | 93.0   | 2.0                       | 4.0   | 2.8                     | 2.4   | NE                      | NW    | 20.0          | 3.4   | 2.0                  | 2.0   | 25.0                  | 26.0    |
| 26      | 24.0                 | 26.0  | 30.0                 | 39.0   | 26.0                | 28.0   | 25.0              | 27.0  | 92.0                  | 92.0   | -                         | 2.0   | 1.4                     | 2.7   | SE                      | SE    | 15.6          | -     | 1.6                  | 2.4   | 24.0                  | 26.0    |
| 27      | 25.0                 | 27.0  | 28.0                 | 27.0   | 25.0                | 27.0   | 25.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 3.1                     | 2.5   | SE                      | NE    | -             | -     | 2.0                  | -     | 24.5                  | 25.5    |
| 28      | 25.0                 | 27.0  | 30.0                 | 27.0   | 26.0                | 30.0   | 26.0              | 28.0  | 92.0                  | 85.0   | 6.0                       | 4.0   | 3.6                     | 4.3   | NW                      | NE    | 3.2           | -     | 1.2                  | 2.4   | 25.0                  | 27.0    |
| 29      | 25.0                 | 26.0  | 30.0                 | 26.0   | 26.0                | 30.0   | 26.0              | 28.0  | 82.0                  | 85.0   | 4.0                       | 4.0   | 4.7                     | 0.3   | NE                      | NE    | 1.6           | -     | 2.0                  | 2.0   | 26.0                  | 28.0    |
| 30      | 24.0                 |       | 30.0                 |        | 28.0                |        | 27.0              |       | 92.0                  |        | 2.0                       |       | 3.9                     |       | NW                      |       | 3.6           |       | 1.6                  |       | 25.0                  |         |
| Total   | 802.0                | 900.0 | 1085.0               | 1156.0 | 933.0               | 1009.0 | 878.0             | 924.0 | 2587.0                | 2442.5 | 92.0                      | 94.0  | 93.6                    | 137.0 |                         |       | 121.0         | 29.2  | 82.0                 | 95.6  | 761.5                 | 807.5 * |
| Average | 26.7                 | 30.0  | 36.2                 | 38.5   | 31.1                | 33.6   | 29.3              | 30.8  | 86.2                  | 81.4   | 3.1                       | 3.1   | 3.1                     | 4.6   |                         |       |               |       |                      |       | 25.4                  | 27.8 *  |
|         | 28.4                 |       | 37.4                 |        | 32.4                |        | 30.0              |       | 83.8                  |        | 3.1                       |       | 3.8                     |       |                         |       | 150.2         |       | 177.6                |       | 26.6 *                |         |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       | -0.0                  | N.A.  |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 27.0  |                      | 33.0  |                     | 28.0  |                   | 27.0  |                       | 92.0   |                           | -     |                         | 4.7   |                         | NW    |               | -     |                      | 1.0   |                       | 26.0  |
| 1       | 24.0                 | 27.0  | 29.0                 | 30.0  | 29.0                | 26.0  | 27.0              | 25.0  | 85.0                  | 92.0   | 2.0                       | 2.0   | 4.6                     | 3.7   | SE                      | SE    | -             | 9.2   | 2.0                  | 0.8   | 25.0                  | 26.0  |
| 2       | 24.0                 | 25.0  | 27.0                 | 30.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | 6.0                       | 4.0   | 4.5                     | 8.4   | NE                      | NE    | -             | -     | 1.6                  | 1.8   | 24.0                  | 26.5  |
| 3       | 26.0                 | 26.0  | 30.0                 | 28.0  | 25.0                | 28.0  | 24.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 4.0   | 5.3                     | 4.4   | NE                      | NE    | 10.4          | 6.6   | 1.4                  | 0.6   | 23.0                  | 26.0  |
| 4       | 25.0                 | 24.0  | 28.0                 | 30.0  | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 72.0   | 4.0                       | 4.0   | 4.3                     | 7.2   | NE                      | NE    | 0.6           | -     | 1.2                  | 1.4   | 23.0                  | 26.0  |
| 5       | 24.0                 | 26.0  | 30.0                 | 32.0  | 26.0                | 32.0  | 24.0              | 27.0  | 84.0                  | 53.0   | 2.0                       | 4.0   | 4.9                     | 6.5   | NE                      | NE    | -             | -     | 0.8                  | 2.0   | 24.0                  | 27.0  |
| 6       | 24.0                 | 27.0  | 32.0                 | 34.0  | 27.0                | 34.0  | 26.0              | 28.0  | 92.0                  | 62.0   | 2.0                       | 2.0   | 3.0                     | 4.0   | NE                      | SE    | 37.0          | -     | 0.6                  | 2.2   | 24.0                  | 27.0  |
| 7       | 26.0                 | 30.0  | 34.0                 | 37.0  | 30.0                | 34.0  | 27.0              | 28.0  | 78.0                  | 62.0   | 4.0                       | 2.0   | 2.5                     | 3.2   | NE                      | SE    | -             | -     | 1.8                  | 2.4   | 25.0                  | 28.0  |
| 8       | 27.0                 | 30.0  | 35.0                 | 39.0  | 31.0                | 30.0  | 28.0              | 27.0  | 78.5                  | 78.0   | 2.0                       | 2.0   | 1.5                     | 0.4   | NE                      | SW    | -             | -     | 2.0                  | 2.6   | 26.0                  | 28.0  |
| 9       | 27.0                 | 28.0  | 38.0                 | 38.0  | 31.0                | 30.0  | 28.0              | 27.0  | 78.5                  | 78.0   | -                         | -     | 4.6                     | 4.6   | NE                      | SW    | -             | -     | 2.2                  | 2.4   | 27.0                  | 28.0  |
| 10      | 24.0                 | 25.0  | 36.0                 | 28.0  | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | -     | 2.7                     | 4.9   | NW                      | SW    | 19.4          | 2.2   | 1.4                  | 1.4   | 24.0                  | 27.0  |
| 11      | 24.0                 | 24.0  | 28.0                 | 29.0  | 24.0                | 26.0  | 23.0              | 25.0  | 91.0                  | 92.0   | 2.0                       | 4.0   | 3.2                     | 5.4   | NE                      | NE    | 0.8           | 1.6   | 1.0                  | 0.6   | 23.0                  | 26.0  |
| 12      | 24.0                 | 26.0  | 27.0                 | 31.0  | 26.0                | 29.0  | 26.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 2.6                     | 5.2   | NE                      | NE    | -             | 3.4   | 1.0                  | 1.4   | 26.0                  | 28.0  |
| 13      | 25.0                 | 24.0  | 30.0                 | 31.0  | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 4.0                       | -     | 4.0                     | 5.4   | NW                      | NW    | -             | -     | 1.6                  | 0.6   | 26.0                  | 29.0  |
| 14      | 25.0                 | 26.0  | 30.0                 | 30.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | 6.0   | 3.6                     | 3.2   | NE                      | SE    | -             | 4.0   | 2.0                  | 2.4   | 25.0                  | 27.0  |
| 15      | 26.0                 | 26.0  | 30.0                 | 33.0  | 26.0                | 27.0  | 21.0              | 26.0  | 62.0                  | 92.0   | 4.0                       | 2.0   | 2.4                     | 3.1   | NE                      | NE    | -             | -     | 0.8                  | 1.2   | 25.0                  | 28.0  |
| 16      | 25.0                 | 26.0  | 28.0                 | 28.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | -                         | 2.0   | 1.2                     | 2.9   | NE                      | SW    | 4.4           | 19.4  | 1.8                  | 1.4   | 24.0                  | 28.0  |
| 17      | 24.0                 | 26.0  | 28.0                 | 33.0  | 26.0                | 31.0  | 24.0              | 27.0  | 84.0                  | 73.5   | 2.0                       | 4.0   | 1.7                     | 5.1   | NE                      | SE    | 24.8          | -     | 1.4                  | 1.8   | 23.0                  | 30.0  |
| 18      | 25.0                 | 28.0  | 28.0                 | 33.0  | 26.0                | 32.0  | 25.0              | 28.0  | 92.0                  | 73.0   | 2.0                       | 4.0   | 0.6                     | 2.9   | NE                      | NE    | 17.4          | -     | 1.0                  | 1.4   | 25.0                  | 30.0  |
| 19      | 26.0                 | 28.0  | 30.0                 | 33.0  | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 4.9                     | 8.4   | SW                      | NW    | 1.8           | -     | 1.4                  | 1.8   | 27.0                  | 31.0  |
| 20      | 25.0                 | 26.0  | 29.0                 | 28.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 4.0   | 4.2                     | 6.9   | NE                      | NE    | 5.0           | -     | 1.0                  | 1.4   | 25.0                  | 30.0  |
| 21      | 25.0                 | 25.0  | 29.0                 | 33.0  | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 1.7                     | 6.7   | NE                      | NE    | 5.8           | -     | 1.2                  | 2.0   | 25.0                  | 31.0  |
| 22      | 25.0                 | 28.0  | 31.0                 | 30.0  | 28.0                | 29.0  | 27.0              | 26.0  | 92.0                  | 78.0   | 4.0                       | 2.0   | 3.2                     | 5.4   | NW                      | SW    | 1.8           | -     | 1.8                  | 2.0   | 25.0                  | 31.0  |
| 23      | 25.0                 | 25.0  | 30.0                 | 29.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 5.4                     | 5.1   | SW                      | NE    | 1.0           | -     | 1.4                  | 1.0   | 24.0                  | 30.0  |
| 24      | 24.0                 | 24.0  | 27.0                 | 29.0  | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 79.0   | 2.0                       | -     | 4.6                     | 5.2   | SW                      | NE    | 14.2          | -     | 2.0                  | 0.4   | 24.0                  | 29.0  |
| 25      | 25.0                 | 25.0  | 27.0                 | 30.0  | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | 6.0                       | 4.0   | 4.6                     | 9.1   | NE                      | NE    | -             | -     | 2.2                  | 1.4   | 24.0                  | 31.0  |
| 26      | 24.0                 | 25.0  | 29.0                 | 27.0  | 25.0                | 26.0  | 24.0              | 24.0  | 92.0                  | 84.0   | 4.0                       | 2.0   | 7.9                     | 8.4   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 23.0                  | 26.0  |
| 27      | 25.0                 | 25.0  | 26.0                 | 28.0  | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 4.0                       | 2.0   | 3.8                     | 7.1   | SW                      | NW    | 7.2           | 1.0   | 1.4                  | 1.8   | 24.0                  | 27.0  |
| 28      | 25.0                 | 27.0  | 28.0                 | 29.0  | 27.0                | 30.0  | 25.0              | 26.0  | 92.0                  | 72.0   | 4.0                       | 2.0   | 1.7                     | 6.1   | NE                      | NW    | -             | -     | 1.2                  | 1.8   | 25.0                  | 28.0  |
| 29      | 25.0                 | 25.0  | 30.0                 | 32.0  | 29.0                | 30.0  | 27.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | -     | 1.3                     | 1.6   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 31.0  |
| 30      | 25.0                 | 28.0  | 30.0                 | 34.0  | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.5   | 2.0                       | -     | 1.3                     | 1.6   | SW                      | NE    | -             | -     | 1.2                  | 2.0   | 26.0                  | 30.0  |
| 31      | 25.0                 |       | 32.0                 |       | 29.0                |       | 27.0              |       | 85.0                  |        | 2.0                       |       | 0.7                     |       | SE                      |       | 0.8           |       | 0.8                  |       | 27.0                  |       |
| Total   | 773.0                | 812.0 | 926.0                | 969.0 | 833.0               | 898.0 | 785.0             | 813.0 | 2728.0                | 2472.0 | 78.0                      | 68.0  | 102.6                   | 156.5 |                         |       | 152.4         | 47.4  | 43.2                 | 49.0  | 768.0                 | 876.5 |
| Average | 24.9                 | 26.2  | 29.9                 | 31.3  | 26.9                | 29.0  | 25.3              | 26.2  | 88.0                  | 79.7   | 2.5                       | 2.2   | 3.3                     | 5.0   |                         |       |               |       |                      |       | 24.8                  | 28.3  |
|         | 25.6                 |       | 30.6                 |       | 27.9                |       | 25.8              |       | 83.9                  |        | 2.4                       |       | 4.2                     |       |                         |       | 199.8         |       | 92.2                 |       | 26.5                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Aug-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 30.0  |                     | 28.0  |                   | 27.0  |                       | 92.0   |                           | -     |                         | 2.7   |                         | SE    |               | 4.0   |                      | 2.0   |                       | 31.0  |
| 1       | 26.0                 | 27.0  | 29.0                 | 29.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 1.3                     | 3.9   | SE                      | NE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 31.0  |
| 2       | 25.0                 | 27.0  | 31.0                 | 34.0  | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | 2.0   | 4.4                     | 3.0   | NE                      | NE    | 22.0          | -     | 1.0                  | 2.0   | 23.0                  | 30.0  |
| 3       | 26.0                 | 27.0  | 32.0                 | 34.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | -     | 2.1                     | 3.9   | SE                      | NE    | 2.8           | -     | 1.2                  | 2.0   | 25.0                  | 29.0  |
| 4       | 25.0                 | 27.0  | 30.0                 | 33.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 2.1                     | 4.6   | NE                      | SE    | 1.4           | 0.6   | 1.0                  | 2.0   | 28.0                  | 23.0  |
| 5       | 25.0                 | 26.0  | 31.0                 | 32.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 1.3                     | 7.7   | SE                      | SE    | 5.4           | -     | 1.4                  | 1.6   | 27.0                  | 30.0  |
| 6       | 25.0                 | 26.0  | 30.0                 | 32.0  | 27.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | -                         | 2.0   | 0.6                     | 2.5   | SE                      | SE    | -             | 6.4   | 1.0                  | 2.0   | 25.0                  | 32.0  |
| 7       | 25.0                 | 26.0  | 29.0                 | 32.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 2.4                     | 3.8   | NE                      | NE    | 3.8           | 1.4   | 1.2                  | 1.0   | 26.0                  | 29.5  |
| 8       | 25.0                 | 26.0  | 28.0                 | 30.0  | 27.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | -                         | 2.0   | 1.3                     | 4.9   | SW                      | SW    | -             | 1.0   | 1.0                  | 1.0   | 27.0                  | 30.0  |
| 9       | 25.0                 | 25.0  | 29.0                 | 30.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 3.8                     | 6.1   | NE                      | NE    | 1.2           | -     | 1.2                  | 2.0   | 26.0                  | 31.0  |
| 10      | 25.0                 | 25.0  | 29.0                 | 29.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 4.0                       | 2.0   | 4.7                     | 5.4   | NE                      | NW    | -             | -     | 1.0                  | 1.6   | 25.0                  | 29.0  |
| 11      | 24.0                 | 26.0  | 29.0                 | 32.0  | 27.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 4.0                       | 2.0   | 2.2                     | 7.1   | NE                      | NE    | 3.8           | 10.8  | 1.8                  | 2.0   | 26.0                  | 33.0  |
| 12      | 26.0                 | 27.0  | 31.0                 | 32.0  | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 3.5                     | 5.1   | NE                      | NE    | -             | 0.4   | 2.0                  | 0.8   | 26.5                  | 30.0  |
| 13      | 25.0                 | 27.0  | 32.0                 | 33.0  | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 4.0                       | -     | 2.8                     | 2.9   | NW                      | SE    | -             | -     | 1.6                  | 1.4   | 27.0                  | 33.0  |
| 14      | 25.0                 | 28.0  | 30.0                 | 34.0  | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0   | 4.0                       | 2.0   | 3.8                     | 4.4   | NE                      | SW    | -             | -     | 1.8                  | 2.2   | 27.0                  | 33.0  |
| 15      | 26.0                 | 28.0  | 28.0                 | 34.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 3.3                     | 2.7   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 35.0  |
| 16      | 26.0                 | 27.0  | 32.0                 | 35.0  | 28.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | -     | 3.2                     | 2.1   | NE                      | NE    | -             | 6.2   | 2.0                  | 2.0   | 27.0                  | 35.0  |
| 17      | 25.0                 | 24.0  | 33.0                 | 31.0  | 27.0                | 25.0  | 26.0              | 24.0  | 92.0                  | 92.0   | 2.0                       | -     | 2.0                     | 2.5   | NE                      | SW    | 2.8           | -     | 0.8                  | 1.8   | 26.0                  | 28.0  |
| 18      | 25.0                 | 25.0  | 27.0                 | 30.0  | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 1.3                     | 1.7   | SW                      | SW    | -             | 3.2   | 0.6                  | 1.6   | 26.0                  | 30.5  |
| 19      | 25.0                 | 25.0  | 30.0                 | 31.0  | 27.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 92.0   | 2.0                       | -     | 1.9                     | 4.2   | SE                      | NW    | 6.2           | 2.0   | 0.8                  | 2.0   | 27.0                  | 31.0  |
| 20      | 25.0                 | 25.0  | 28.0                 | 32.0  | 27.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 92.0   | 2.0                       | -     | 2.8                     | 3.8   | SW                      | SW    | -             | 3.2   | 1.0                  | 2.0   | 26.0                  | 32.0  |
| 21      | 24.0                 | 27.0  | 27.0                 | 31.0  | 27.0                | 26.0  | 26.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | -     | 1.0                     | 1.4   | NW                      | NE    | 9.0           | -     | 1.6                  | 1.2   | 26.0                  | 31.0  |
| 22      | 25.0                 | 26.0  | 27.0                 | 32.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | -     | 0.3                     | 1.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 33.0  |
| 23      | 25.0                 | 28.0  | 28.0                 | 31.0  | 28.0                | 32.0  | 26.0              | 29.0  | 85.0                  | 79.0   | 2.0                       | -     | 0.2                     | 1.5   | NE                      | NE    | -             | 30.8  | 1.0                  | 2.0   | 26.0                  | 35.0  |
| 24      | 24.0                 | 27.0  | 33.0                 | 30.0  | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 1.1                     | 2.2   | SW                      | SW    | 8.2           | 1.4   | 1.2                  | 1.6   | 27.0                  | 30.0  |
| 25      | 24.0                 | 27.0  | 32.0                 | 33.0  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 1.7                     | 2.0   | NE                      | NE    | 11.0          | -     | 1.0                  | 1.8   | 27.0                  | 33.0  |
| 26      | 25.0                 | 28.0  | 30.0                 | 33.0  | 29.0                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.4                     | 1.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.5                  | 33.0  |
| 27      | 26.0                 | 29.0  | 30.0                 | 32.0  | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | -     | 0.1                     | 1.1   | NE                      | SW    | -             | 17.0  | 1.6                  | 1.4   | 28.0                  | 32.0  |
| 28      | 25.0                 | 25.0  | 32.0                 | 31.0  | 27.0                | 26.0  | 26.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 0.5                     | 0.3   | SW                      | SW    | 0.8           | -     | 1.4                  | 1.6   | 27.0                  | 30.0  |
| 29      | 24.0                 | 25.0  | 26.0                 | 31.0  | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | -     | 2.2                     | 3.4   | SW                      | SW    | 6.4           | -     | 1.4                  | 2.0   | 25.0                  | 33.0  |
| 30      | 25.0                 | 26.0  | 30.0                 | 33.0  | 29.0                | 30.0  | 29.0              | 30.0  | 92.0                  | 79.0   | -                         | 2.0   | 1.0                     | 3.6   | NW                      | NW    | 10.8          | -     | 1.8                  | 2.0   | 26.5                  | 34.0  |
| 31      | 26.0                 |       | 31.0                 |       | 29.0                |       | 27.0              |       | 85.0                  |        | 2.0                       |       | 0.4                     |       | SW                      |       | -             |       | 2.0                  |       | 26.5                  |       |
| Total   | 777.0                | 819.0 | 924.0                | 986.0 | 849.0               | 893.0 | 805.0             | 829.0 | 2744.0                | 2604.0 | 52.0                      | 28.0  | 59.5                    | 102.4 |                         |       | 95.6          | 88.4  | 40.4                 | 54.6  | 819.0                 | 970.0 |
| Average | 25.1                 | 26.4  | 29.8                 | 31.8  | 27.4                | 28.8  | 26.0              | 26.7  | 88.5                  | 84.0   | 1.7                       | 0.9   | 1.9                     | 3.3   |                         |       |               |       |                      |       | 26.4                  | 31.3  |
|         | 25.7                 |       | 30.8                 |       | 28.1                |       | 26.4              |       | 86.3                  |        | 1.3                       |       | 2.6                     |       |                         |       | 184.0         |       | 95.0                 |       | 28.9                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 26.0  |                      | 32.0  |                     | 28.0  |                   | 26.0  |                       | 85.0   |                           | 2.0   |                         | 1.9   |                         | NW    |               | ..    |                      | 1.8   |                       | 32.0  |
| 1       | 25.0                 | 27.0  | 30.0                 | 34.0  | 28.0                | 31.0  | 27.0              | 27.0  | 92.0                  | 72.5   | -                         | 2.0   | 1.7                     | 1.7   | NE                      | SE    | -             | -     | 1.6                  | 1.8   | 27.0                  | 35.0  |
| 2       | 27.0                 | 26.0  | 33.0                 | 30.0  | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.7                     | 1.3   | SE                      | SE    | -             | -     | 1.0                  | 1.2   | 28.0                  | 30.0  |
| 3       | 25.0                 | 26.0  | 29.0                 | 29.0  | 28.0                | 31.0  | 27.0              | 27.0  | 92.0                  | 72.5   | 2.0                       | -     | 0.8                     | 2.5   | NW                      | NE    | -             | -     | 1.2                  | 2.0   | 25.0                  | 36.0  |
| 4       | 25.0                 | 28.0  | 32.0                 | 34.0  | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | -     | 1.6                     | 2.3   | NW                      | SE    | -             | -     | 1.8                  | 52.0  | 27.0                  | 35.0  |
| 5       | 27.0                 | 28.0  | 33.0                 | 31.0  | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | -     | 0.6                     | 1.4   | SE                      | SE    | -             | -     | 1.0                  | 2.0   | 28.0                  | 37.0  |
| 6       | 26.0                 | 29.0  | 34.0                 | 36.0  | 30.0                | 28.0  | 27.0              | 27.0  | 78.0                  | 92.0   | 2.0                       | 2.0   | 0.2                     | 1.7   | SE                      | SE    | -             | -     | 2.0                  | 2.4   | 28.0                  | 35.0  |
| 7       | 25.0                 | 29.0  | 29.0                 | 36.0  | 29.0                | 32.0  | 26.0              | 29.0  | 78.0                  | 73.0   | -                         | -     | 0.2                     | 1.3   | SE                      | SE    | -             | -     | 1.8                  | 2.0   | 27.0                  | 35.0  |
| 8       | 25.0                 | 30.0  | 33.0                 | 35.0  | 30.0                | 30.0  | 27.0              | 27.0  | 78.0                  | 78.0   | -                         | 2.0   | 0.2                     | 2.0   | SE                      | NE    | -             | -     | 1.4                  | 2.0   | 28.5                  | 35.0  |
| 9       | 25.0                 | 28.0  | 31.0                 | 35.0  | 28.0                | 28.0  | 27.0              | 26.0  | 92.0                  | 85.0   | -                         | 2.0   | 0.5                     | 1.9   | SW                      | SW    | -             | 36.8  | 1.4                  | 2.0   | 27.5                  | 34.0  |
| 10      | 25.0                 | 27.0  | 31.0                 | 34.0  | 27.0                | 32.0  | 26.0              | 29.0  | 92.0                  | 78.0   | -                         | -     | 1.2                     | 1.1   | NW                      | NW    | 1.0           | -     | 1.6                  | 2.0   | 27.0                  | 35.0  |
| 11      | 27.0                 | 24.0  | 32.0                 | 26.0  | 30.0                | 28.0  | 28.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 1.3   | SW                      | NW    | -             | -     | 1.8                  | 1.8   | 29.0                  | 34.0  |
| 12      | 25.0                 | 26.0  | 26.0                 | 34.0  | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.5   | -                         | 4.0   | 0.2                     | 1.9   | NW                      | NE    | -             | -     | 1.4                  | 1.8   | 27.0                  | 35.0  |
| 13      | 24.0                 | 27.0  | 34.0                 | 34.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 2.8                     | 2.8   | NE                      | NE    | -             | -     | 1.8                  | 1.6   | 27.0                  | 34.0  |
| 14      | 24.0                 | 24.0  | 34.0                 | 32.0  | 27.0                | 29.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | -     | 1.9                     | 4.0   | NE                      | NE    | -             | -     | 1.6                  | 1.8   | 27.0                  | 31.0  |
| 15      | 24.0                 | 27.0  | 30.0                 | 33.0  | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 2.0                     | 2.5   | NE                      | NE    | -             | -     | 1.6                  | 1.8   | 27.0                  | 33.0  |
| 16      | 26.0                 | 28.0  | 30.0                 | 33.0  | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.6                     | 1.1   | NE                      | NE    | -             | 4.6   | 1.2                  | 1.8   | 27.0                  | 32.0  |
| 17      | 26.0                 | 25.0  | 31.0                 | 29.0  | 29.0                | 26.0  | 27.0              | 25.0  | 85.0                  | 92.0   | 2.0                       | -     | 0.1                     | 2.2   | NE                      | NE    | -             | 19.6  | 1.6                  | 1.6   | 28.0                  | 31.0  |
| 18      | 22.0                 | 24.0  | 27.0                 | 28.0  | 27.0                | 25.0  | 26.0              | 24.0  | 92.0                  | 92.0   | 2.0                       | -     | 0.6                     | 2.5   | NE                      | SE    | -             | 0.6   | 1.6                  | 1.6   | 26.5                  | 28.0  |
| 19      | 24.0                 | 25.0  | 25.0                 | 29.0  | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | 2.0                       | 2.0   | 0.9                     | 1.0   | SE                      | SW    | 3.6           | 17.2  | 0.6                  | 1.2   | 26.0                  | 28.0  |
| 20      | 24.0                 | 25.0  | 25.0                 | 26.0  | 24.0                | 24.0  | 23.5              | 23.0  | 96.0                  | 82.0   | 2.0                       | 2.0   | 1.2                     | 3.1   | SW                      | SW    | 40.0          | 19.0  | 1.0                  | 1.2   | 24.5                  | 26.0  |
| 21      | 24.0                 | 25.0  | 26.0                 | 29.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 6.0                     | 2.4   | NE                      | NW    | 1.4           | -     | 1.0                  | 0.6   | 24.0                  | 29.0  |
| 22      | 24.0                 | 24.0  | 26.0                 | 31.0  | 27.0                | 27.0  | 26.0              | 25.0  | 92.0                  | 84.0   | -                         | -     | 0.6                     | 4.5   | NW                      | NE    | -             | -     | 1.0                  | 1.6   | 26.0                  | 30.0  |
| 23      | 25.0                 | 26.0  | 30.0                 | 33.0  | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -                         | -     | 0.4                     | 0.8   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 33.0  |
| 24      | 25.0                 | 28.0  | 31.0                 | 30.0  | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 1.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 35.0  |
| 25      | 24.0                 | 28.0  | 32.0                 | 30.0  | 28.0                | 32.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 35.0  |
| 26      | 25.0                 | 28.0  | 28.0                 | 35.0  | 28.0                | 32.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.6   | NW                      | NW    | -             | 1.8   | 2.0                  | -     | 28.0                  | 35.0  |
| 27      | 25.0                 | 27.0  | 35.0                 | 33.0  | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.0                     | 1.0   | NW                      | NW    | -             | 36.0  | 2.0                  | -     | 27.0                  | 33.0  |
| 28      | 25.0                 | 24.0  | 31.0                 | 33.0  | 28.0                | 28.0  | 26.0              | 24.0  | 92.0                  | 91.0   | -                         | 4.0   | 0.2                     | 0.2   | SW                      | SW    | -             | -     | 1.0                  | -     | 28.0                  | 30.0  |
| 29      | 24.0                 | 25.0  | 28.0                 | 34.0  | 26.0                | 26.0  | 25.0              | 25.0  | 91.0                  | 92.0   | -                         | -     | 0.2                     | 0.5   | SW                      | SW    | 2.0           | -     | 2.0                  | -     | 26.0                  | 31.0  |
| 30      | 23.0                 |       | 32.0                 |       | 27.0                |       | 26.0              |       | 92.0                  |        | 2.0                       |       | 0.9                     |       | SE                      |       | 1.0           |       | 1.0                  |       | 26.0                  |       |
| Total   | 745.0                | 794.0 | 908.0                | 958.0 | 831.0               | 872.0 | 787.5             | 797.0 | 2685.0                | 2504.5 | 22.0                      | 24.0  | 26.7                    | 53.9  |                         |       | 49.0          | 135.6 | 44.0                 | 95.6  | 808.0                 | 982.0 |
| Average | 24.8                 | 26.5  | 30.3                 | 31.9  | 27.7                | 29.1  | 26.3              | 26.6  | 89.5                  | 83.5   | 0.7                       | 0.8   | 0.9                     | 1.8   |                         |       |               |       |                      |       | 26.9                  | 32.7  |
|         | 25.7                 |       | 31.1                 |       | 28.4                |       | 26.4              |       | 86.5                  |        | 0.8                       |       | 1.3                     |       |                         |       | 184.6 *       |       | 139.6                |       | 29.8                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 28.0  |                      | 33.0   |                     | 30.0  |                   | 27.0  |                       | 78.0   |                           | -     |                         | 1.0   |                         | SE    |               | -     |                      | 2.0   |                       | 35.0  |
| 1       | 25.0                 | 26.0  | 32.0                 | 31.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.2                     | 0.4   | SW                      | SW    | 3.8           | -     | 1.0                  | 2.0   | 26.0                  | 33.0  |
| 2       | 23.0                 | 24.0  | 30.0                 | 30.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.4                     | 1.1   | SW                      | NE    | 42.0          | -     | 1.0                  | 2.0   | 25.0                  | 33.0  |
| 3       | 25.0                 | 26.0  | 31.0                 | 32.0   | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.1                     | 1.1   | SW                      | NW    | -             | -     | 1.0                  | 1.6   | 26.0                  | 32.0  |
| 4       | 25.0                 | 27.0  | 31.0                 | 33.0   | 28.0                | 28.0  | 27.0              | 26.0  | 92.0                  | 85.0   | -                         | 2.0   | 0.1                     | 1.7   | NW                      | SE    | -             | -     | 1.4                  | 1.6   | 27.0                  | 33.0  |
| 5       | 25.0                 | 27.0  | 29.0                 | 33.0   | 27.0                | 29.0  | 26.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | -     | 0.2                     | 1.9   | SW                      | NW    | -             | -     | 1.4                  | 1.6   | 27.0                  | 32.0  |
| 6       | 25.0                 | 27.0  | 30.0                 | 34.0   | 27.0                | 27.0  | 26.0              | 24.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 0.2                     | 2.0   | SW                      | SW    | -             | -     | 1.4                  | 1.8   | 28.0                  | 33.0  |
| 7       | 24.0                 | 27.0  | 28.0                 | 32.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.3                     | 2.4   | SW                      | NW    | -             | 3.2   | 1.0                  | 2.0   | 26.0                  | 32.0  |
| 8       | 25.0                 | 26.0  | 29.0                 | 30.0   | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | -     | 0.1                     | 0.8   | NW                      | SW    | -             | -     | 1.6                  | 0.2   | 26.0                  | 29.0  |
| 9       | 24.0                 | 25.0  | 28.0                 | 33.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.1                     | 1.3   | SW                      | SW    | -             | -     | 1.0                  | 1.6   | 26.0                  | 33.0  |
| 10      | 24.0                 | 26.0  | 30.0                 | 33.0   | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.4                     | 0.6   | NW                      | NW    | -             | -     | 1.4                  | 1.8   | 27.0                  | 33.0  |
| 11      | 24.0                 | 27.0  | 32.0                 | 33.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.8                     | 1.3   | NW                      | NW    | -             | -     | 1.4                  | 1.8   | 26.0                  | 33.0  |
| 12      | 25.0                 | 28.0  | 33.0                 | 34.0   | 28.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 1.4   | NW                      | NW    | -             | -     | 1.4                  | 2.0   | 27.0                  | 33.0  |
| 13      | 25.0                 | 29.0  | 32.0                 | 30.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NE    | -             | -     | 2.0                  | 2.0   | 27.5                  | 34.0  |
| 14      | 26.0                 | 28.0  | 32.0                 | 35.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.3                     | 1.1   | NE                      | NE    | -             | -     | 1.4                  | 1.8   | 28.0                  | 34.0  |
| 15      | 25.0                 | 28.0  | 32.0                 | 36.0   | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.5   | NE                      | NE    | -             | -     | 1.6                  | 2.0   | 27.0                  | 34.0  |
| 16      | 23.0                 | 25.0  | 32.0                 | 36.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | -     | 0.1                     | 1.0   | NE                      | NE    | -             | -     | 1.4                  | 1.8   | 26.0                  | 33.0  |
| 17      | 22.0                 | 26.0  | 32.0                 | 35.0   | 26.0                | 30.0  | 23.0              | 26.0  | 76.0                  | 72.0   | -                         | -     | 0.1                     | 1.4   | NE                      | NE    | -             | -     | 1.2                  | 1.6   | 24.0                  | 32.0  |
| 18      | 21.0                 | 28.0  | 29.0                 | 35.0   | 24.0                | 30.0  | 21.0              | 26.0  | 75.0                  | 72.0   | -                         | -     | 0.1                     | 1.1   | NE                      | NE    | -             | -     | 1.4                  | 2.0   | 23.0                  | 33.0  |
| 19      | 24.0                 | 26.0  | 33.0                 | 35.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | -     | 1.3                     | 0.8   | NE                      | NE    | -             | -     | 1.4                  | 1.6   | 25.0                  | 33.0  |
| 20      | 24.0                 | 28.0  | 32.0                 | 33.0   | 29.0                | 30.0  | 26.0              | 26.0  | 92.0                  | 72.0   | 2.0                       | -     | 1.1                     | 1.9   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 27.0                  | 32.0  |
| 21      | 26.0                 | 26.0  | 31.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | 2.0                       | -     | 0.1                     | 2.0   | NE                      | NE    | -             | -     | 1.4                  | 1.4   | 25.0                  | 33.0  |
| 22      | 24.0                 | 25.0  | 32.0                 | 33.0   | 25.0                | 29.0  | 24.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | -     | 0.3                     | 0.2   | NE                      | NE    | -             | -     | 1.4                  | 1.4   | 24.0                  | 31.0  |
| 23      | 22.0                 | 26.0  | 30.0                 | 34.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.1                     | 1.4   | NE                      | NE    | -             | -     | 1.4                  | 1.4   | 25.0                  | 33.0  |
| 24      | 24.0                 | 25.0  | 30.0                 | 35.0   | 26.0                | 30.0  | 25.0              | 26.0  | 92.0                  | 72.0   | 4.0                       | -     | 0.3                     | 1.2   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 26.0                  | 32.0  |
| 25      | 20.0                 | 25.0  | 31.0                 | 35.0   | 25.0                | 28.0  | 22.0              | 25.0  | 76.0                  | 77.0   | -                         | -     | 0.2                     | 1.0   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 23.0                  | 32.0  |
| 26      | 20.0                 | 25.0  | 30.0                 | 34.0   | 25.0                | 30.0  | 22.0              | 24.0  | 76.0                  | 78.0   | -                         | -     | 0.1                     | 1.1   | NE                      | NE    | -             | -     | 1.8                  | 1.8   | 23.0                  | 30.0  |
| 27      | 20.0                 | 25.0  | 31.0                 | 34.0   | 25.0                | 28.0  | 23.0              | 25.0  | 84.0                  | 76.0   | 2.0                       | -     | 0.1                     | 1.0   | NE                      | NE    | -             | -     | 1.8                  | 1.8   | 23.0                  | 30.0  |
| 28      | 21.0                 | 25.0  | 29.0                 | 33.0   | 24.0                | 27.0  | 23.0              | 25.0  | 91.0                  | 84.0   | -                         | -     | 0.0                     | 0.6   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 23.0                  | 29.0  |
| 29      | 19.0                 | 23.0  | 28.0                 | 33.0   | 23.0                | 27.0  | 22.0              | 23.0  | 91.0                  | 84.0   | -                         | -     | 0.0                     | 1.0   | NE                      | NE    | -             | -     | 1.4                  | 1.8   | 22.0                  | 30.0  |
| 30      | 22.0                 | 23.0  | 29.0                 | 32.0   | 23.0                | 27.0  | 21.0              | 25.0  | 83.0                  | 84.0   | -                         | -     | 0.0                     | 1.0   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 21.0                  | 29.0  |
| 31      | 22.0                 |       | 29.0                 |        | 22.0                |       | 21.0              |       | 92.0                  |        | 2.0                       |       | 0.1                     |       | NE                      |       | -             |       | 1.4                  |       | 22.0                  |       |
| Total   | 724.0                | 810.0 | 947.0                | 1033.0 | 811.0               | 901.0 | 764.0             | 815.0 | 2746.0                | 2500.0 | 32.0                      | 6.0   | 7.3                     | 36.1  |                         |       | 45.8          | 3.2   | 44.0                 | 52.4  | 781.5                 | 998.0 |
| Average | 23.4                 | 26.1  | 30.5                 | 33.3   | 26.2                | 29.1  | 24.6              | 26.3  | 88.6                  | 80.6   | 1.0                       | 0.2   | 0.2                     | 1.2   |                         |       |               |       |                      |       | 25.2                  | 32.2  |
|         | 24.7                 |       | 31.9                 |        | 27.6                |       | 25.5              |       | 84.6                  |        | 0.6                       |       | 0.7                     |       |                         |       | 49.0          |       | 96.4                 |       | 28.7                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPM     |                      | 23.0  |                      | 32.0  |                     | 26.0  |                   | 24.0  |                       | 84.0   |                           | -     |                         | 1.0   |                         | NE    |               | -     |                      | 1.2   |                       | ..      |
| 1       | 18.0                 | 21.0  | 32.0                 | 30.0  | 22.0                | 27.0  | 20.0              | 23.0  | 82.0                  | 70.0   | 2.0                       | -     | 0.2                     | 1.3   | NE                      | NE    | -             | -     | 1.6                  | 1.8   | 21.0                  | 27.0    |
| 2       | 18.0                 | 22.0  | 29.0                 | 31.0  | 22.0                | 26.0  | 21.0              | 22.0  | 91.0                  | 69.0   | -                         | -     | 0.1                     | 1.7   | NE                      | NE    | -             | -     | 1.2                  | 1.4   | 21.0                  | 27.5    |
| 3       | 16.0                 | 21.0  | 17.0                 | 30.0  | 21.0                | 26.0  | 19.0              | 22.0  | 82.0                  | 69.0   | 2.0                       | -     | 0.0                     | 2.1   | NE                      | SW    | -             | -     | 1.2                  | 1.4   | 19.0                  | 27.0    |
| 4       | 17.0                 | 22.0  | 30.0                 | 31.0  | 22.0                | 25.0  | 20.0              | 21.0  | 82.0                  | 68.0   | -                         | -     | 0.1                     | 2.2   | SW                      | SW    | -             | -     | 1.0                  | 1.2   | 20.0                  | 27.0    |
| 5       | 16.0                 | 21.0  | 27.0                 | 32.0  | 22.0                | 25.0  | 20.0              | 21.0  | 82.0                  | 68.0   | -                         | -     | 0.1                     | 2.0   | SW                      | SW    | -             | -     | 0.8                  | 1.0   | 19.0                  | 27.0    |
| 6       | 17.0                 | 23.0  | 27.0                 | 32.0  | 22.0                | 28.0  | 21.0              | 23.0  | 91.0                  | 65.0   | 2.0                       | -     | 0.1                     | 1.0   | SW                      | SW    | -             | -     | 1.0                  | 1.2   | 21.0                  | 28.0    |
| 7       | 20.0                 | 21.0  | 29.0                 | 31.0  | 24.0                | 26.0  | 21.0              | 22.0  | 75.0                  | 85.0   | -                         | -     | 0.1                     | 1.4   | NE                      | NE    | -             | -     | 0.8                  | 1.4   | 20.0                  | 27.0    |
| 8       | 17.0                 | 21.0  | 30.0                 | 31.0  | 23.0                | 26.0  | 20.0              | 21.0  | 75.0                  | 62.0   | -                         | -     | 0.1                     | 1.0   | NE                      | SW    | -             | -     | 1.0                  | 1.2   | 20.0                  | 27.0    |
| 9       | 16.0                 | 21.0  | 30.0                 | 31.0  | 21.0                | 28.0  | 19.0              | 21.0  | 82.0                  | 51.0   | 2.0                       | 2.0   | 0.1                     | 1.1   | SW                      | SW    | -             | -     | 0.8                  | 1.2   | 20.5                  | 27.0    |
| 10      | 17.0                 | 22.0  | 29.0                 | 32.0  | 24.0                | 26.0  | 21.0              | 22.0  | 75.0                  | 82.0   | -                         | -     | 0.3                     | 1.0   | SW                      | SW    | -             | -     | 0.8                  | 1.2   | 21.0                  | 28.0    |
| 11      | 14.0                 | 20.0  | 30.0                 | 30.0  | 21.0                | 28.0  | 18.0              | 20.0  | 73.0                  | 77.0   | 2.0                       | 2.0   | 0.1                     | 1.5   | SE                      | SW    | -             | -     | 0.6                  | 1.0   | 17.5                  | 27.0    |
| 12      | 13.0                 | 21.0  | 30.0                 | 30.0  | 21.0                | 24.0  | 18.0              | 20.0  | 73.0                  | 64.0   | 2.0                       | -     | 0.2                     | 0.9   | SW                      | SW    | -             | -     | 0.8                  | 1.0   | 17.0                  | 25.0    |
| 13      | 14.0                 | 20.0  | 29.0                 | 31.0  | 20.0                | 26.0  | 18.0              | 22.0  | 81.0                  | 73.0   | 2.0                       | -     | 0.1                     | 0.5   | SW                      | SW    | -             | -     | 0.6                  | 1.0   | 18.0                  | 26.0    |
| 14      | 15.0                 | 22.0  | 30.0                 | 32.0  | 20.0                | 28.0  | 18.0              | 22.0  | 81.0                  | 57.0   | -                         | 2.0   | 0.1                     | 1.9   | SW                      | SE    | -             | -     | 0.8                  | 1.2   | 18.0                  | 26.5    |
| 15      | 20.0                 | 21.0  | 29.0                 | 28.0  | 22.0                | 22.0  | 20.0              | 21.0  | 82.0                  | 91.0   | 2.0                       | 4.0   | 0.1                     | 1.8   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 21.0                  | 23.0    |
| 16      | 17.0                 | 21.0  | 33.0                 | 29.0  | 23.0                | 25.0  | 21.0              | 22.0  | 83.0                  | 76.0   | -                         | 2.0   | 0.8                     | 2.3   | SW                      | SW    | -             | -     | 1.0                  | 1.2   | 21.0                  | 26.0    |
| 17      | 21.0                 | 23.0  | 27.0                 | 29.0  | 24.0                | 26.0  | 22.0              | 23.0  | 83.0                  | 76.0   | 2.0                       | -     | 0.9                     | 1.3   | SW                      | SW    | -             | -     | 1.2                  | 1.4   | 22.0                  | 26.0    |
| 18      | 19.0                 | 22.0  | 27.0                 | 30.0  | 22.0                | 27.0  | 21.0              | 24.0  | 91.0                  | 77.0   | -                         | -     | 0.0                     | 1.2   | SW                      | SW    | -             | -     | 1.0                  | 1.6   | 23.0                  | 27.0    |
| 19      | 19.0                 | 21.0  | 30.0                 | 32.0  | 22.0                | 29.0  | 21.0              | 24.0  | 91.0                  | 64.0   | -                         | -     | 0.1                     | 1.4   | SW                      | NW    | -             | -     | 0.6                  | 1.0   | 21.0                  | 29.0    |
| 20      | 20.0                 | 23.0  | 31.0                 | 33.0  | 23.0                | 28.0  | 21.0              | 22.0  | 83.0                  | 57.0   | 2.0                       | -     | 0.0                     | 1.4   | NW                      | SE    | -             | -     | 0.8                  | 1.0   | 22.0                  | 28.0    |
| 21      | 17.0                 | 21.0  | 29.0                 | 32.0  | 21.0                | 26.0  | 18.0              | 21.0  | 73.0                  | 62.0   | -                         | -     | 0.2                     | 1.1   | SE                      | SW    | -             | -     | 1.0                  | 1.2   | 20.0                  | 26.0    |
| 22      | 16.0                 | 18.0  | 28.0                 | 31.0  | 18.0                | 26.0  | 15.0              | 20.0  | 71.0                  | 55.0   | -                         | -     | 0.0                     | 1.0   | SW                      | SE    | -             | -     | 0.8                  | 1.0   | 18.5                  | 25.0    |
| 23      | 15.0                 | 20.0  | 27.0                 | 30.0  | 17.0                | 26.0  | 14.0              | 20.0  | 70.0                  | 55.0   | -                         | -     | 0.1                     | 1.6   | SE                      | SE    | -             | -     | 0.6                  | 1.0   | 18.0                  | 24.5    |
| 24      | 13.0                 | 18.0  | 27.0                 | 30.0  | 18.0                | 21.0  | 15.0              | 17.0  | 71.0                  | 65.0   | -                         | -     | 0.0                     | 1.2   | SE                      | SE    | -             | -     | 1.0                  | 1.2   | 17.0                  | 23.0    |
| 25      | 10.0                 | 17.0  | 23.0                 | 30.0  | 17.0                | 27.0  | 14.0              | 18.0  | 70.0                  | 38.0   | -                         | -     | 0.0                     | 1.1   | SE                      | SE    | -             | -     | 1.0                  | 1.2   | 14.5                  | 24.0    |
| 26      | 11.0                 | 17.0  | 28.0                 | 29.0  | 18.0                | 26.0  | 15.0              | 19.0  | 71.0                  | 49.0   | -                         | -     | 0.1                     | 0.6   | SE                      | SW    | -             | -     | 1.2                  | 1.4   | 14.0                  | 24.0    |
| 27      | 11.0                 | 15.0  | 28.0                 | 31.0  | 15.0                | 25.0  | 14.5              | 18.0  | 94.0                  | 47.0   | -                         | -     | 0.0                     | 1.0   | SW                      | SW    | -             | -     | 1.0                  | 1.6   | 14.0                  | 23.0    |
| 28      | 10.5                 | 17.0  | 27.0                 | 30.0  | 18.0                | 26.0  | 16.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | 0.0                     | 1.4   | SW                      | SE    | -             | -     | 1.0                  | 1.2   | 14.5                  | 23.0    |
| 29      | 11.0                 | 16.0  | 28.0                 | 30.0  | 17.0                | 26.0  | 15.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | 0.2                     | 1.0   | SE                      | SE    | -             | -     | 0.8                  | 1.4   | 14.0                  | 24.0    |
| 30      | 17.0                 |       | 27.0                 |       | 17.0                |       | 15.0              |       | 80.0                  |        | -                         |       | 0.6                     |       | NW                      |       | -             |       | 1.0                  |       | 15.0                  |         |
| Total   | 475.5                | 611.0 | 848.0                | 920.0 | 617.0               | 781.0 | 551.5             | 633.0 | 2398.0                | 1954.0 | 20.0                      | 12.0  | 4.7                     | 40.0  |                         |       | -             | -     | 28.2                 | 37.4  | 562.5                 | 752.5 * |
| Average | 15.9                 | 20.4  | 28.3                 | 30.7  | 20.6                | 26.0  | 18.4              | 21.1  | 79.9                  | 65.1   | 0.7                       | 0.4   | 0.2                     | 1.3   |                         |       |               |       |                      |       | 18.8                  | 25.9 *  |
|         | 18.1                 |       | 29.5                 |       | 23.3                |       | 19.7              |       | 72.5                  |        | 0.5                       |       | 0.7                     |       |                         |       | 0.0           |       | 65.6                 |       | 22.3 *                |         |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 11.0  |                      | 29.0  |                     | 25.0  |                   | 18.0  |                       | 47.0   |                           | -     |                         | 1.4   |                         | SE    |               | -     |                      | 1.4   |                       | 23.0  |
| 1       | 12.0                 | 16.0  | 30.0                 | 28.0  | 17.0                | 25.0  | 14.0              | 16.0  | 70.0                  | 35.0   | -                         | -     | 0.2                     | 1.7   | SE                      | SE    | -             | -     | 1.0                  | 1.6   | 16.0                  | 23.0  |
| 2       | 10.0                 | 16.0  | 27.0                 | 28.0  | 16.0                | 25.0  | 14.0              | 16.0  | 79.0                  | 35.0   | -                         | -     | 0.1                     | 1.5   | SE                      | SW    | -             | -     | 0.6                  | 1.0   | 14.0                  | 22.0  |
| 3       | 10.0                 | 16.0  | 27.0                 | 28.0  | 16.0                | 23.0  | 14.0              | 18.0  | 79.0                  | 59.0   | -                         | -     | 0.1                     | 0.9   | SW                      | SW    | -             | -     | 0.8                  | 1.4   | 14.0                  | 22.0  |
| 4       | 10.0                 | 17.0  | 25.0                 | 29.0  | 18.0                | 22.0  | 15.0              | 18.0  | 71.0                  | 66.0   | -                         | -     | 0.1                     | 1.0   | SW                      | NW    | -             | -     | 1.0                  | 1.2   | 15.0                  | 21.5  |
| 5       | 10.0                 | 15.0  | 24.0                 | 28.0  | 16.0                | 25.0  | 14.0              | 19.0  | 79.0                  | 54.0   | -                         | -     | 0.0                     | 1.3   | NW                      | SW    | -             | -     | 0.8                  | 1.0   | 14.5                  | 22.0  |
| 6       | 11.0                 | 16.0  | 26.0                 | 29.0  | 16.0                | 23.0  | 15.0              | 19.0  | 89.0                  | 67.0   | -                         | -     | 0.0                     | 0.7   | SW                      | SW    | -             | -     | 0.4                  | 0.6   | 15.5                  | 22.5  |
| 7       | 12.0                 | 17.0  | 26.0                 | 28.0  | 17.0                | 26.0  | 15.0              | 20.0  | 80.0                  | 55.0   | -                         | -     | 0.0                     | 1.5   | SW                      | SW    | -             | -     | 0.6                  | 0.8   | 16.0                  | 23.0  |
| 8       | 13.0                 | 18.0  | 28.0                 | 30.0  | 19.0                | 28.0  | 17.0              | 20.0  | 81.0                  | 43.0   | -                         | -     | 0.0                     | 2.0   | SW                      | SW    | -             | -     | 0.4                  | 0.8   | 17.0                  | 24.0  |
| 9       | 14.0                 | 18.0  | 28.0                 | 30.0  | 19.0                | 23.0  | 16.0              | 18.0  | 72.0                  | 59.0   | -                         | -     | 0.4                     | 2.4   | SW                      | SE    | -             | -     | 1.0                  | 1.2   | 17.0                  | 23.0  |
| 10      | 12.0                 | 14.0  | 25.0                 | 29.0  | 15.0                | 25.0  | 13.0              | 19.0  | 78.0                  | 59.0   | -                         | -     | 0.1                     | 1.4   | SE                      | NE    | -             | -     | 1.0                  | 1.4   | 15.5                  | 23.0  |
| 11      | 11.0                 | 17.0  | 27.0                 | 29.0  | 18.0                | 26.0  | 16.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | 0.0                     | 1.1   | NE                      | NE    | -             | -     | 0.8                  | 1.0   | 16.0                  | 23.0  |
| 12      | 10.0                 | 16.0  | 27.0                 | 30.0  | 17.0                | 27.0  | 15.0              | 20.0  | 80.0                  | 50.0   | -                         | -     | 0.1                     | 0.7   | SW                      | SW    | -             | -     | 0.8                  | 1.2   | 15.0                  | 22.0  |
| 13      | 12.0                 | 14.0  | 28.0                 | 29.0  | 16.0                | 27.0  | 15.0              | 20.0  | 89.0                  | 50.0   | -                         | -     | 0.1                     | 0.1   | NE                      | NE    | -             | -     | 1.0                  | 1.2   | 16.0                  | 24.0  |
| 14      | 13.0                 | 15.0  | 29.0                 | 30.0  | 18.0                | 27.0  | 17.0              | 20.0  | 90.0                  | 50.0   | -                         | -     | 0.0                     | 0.8   | NE                      | NE    | -             | -     | 0.8                  | 1.0   | 17.0                  | 23.0  |
| 15      | 13.0                 | 16.0  | 29.0                 | 30.0  | 18.0                | 26.0  | 17.0              | 19.0  | 90.0                  | 49.0   | -                         | -     | 0.1                     | 0.3   | NE                      | NE    | -             | -     | 0.8                  | 1.2   | 16.0                  | 24.0  |
| 16      | 13.0                 | 17.0  | 29.0                 | 30.0  | 18.0                | 26.0  | 17.0              | 19.0  | 90.0                  | 49.0   | -                         | -     | 0.0                     | 0.8   | NE                      | NE    | -             | -     | 1.0                  | 1.2   | 17.0                  | 23.0  |
| 17      | 13.0                 | 17.0  | 29.0                 | 30.0  | 18.0                | 26.0  | 16.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | 0.1                     | 1.8   | NE                      | NE    | -             | -     | 1.0                  | 1.4   | 17.0                  | 23.5  |
| 18      | 10.0                 | 14.0  | 28.0                 | 27.0  | 15.0                | 23.0  | 13.0              | 16.0  | 78.0                  | 45.0   | -                         | -     | 0.0                     | 2.8   | NE                      | SE    | -             | -     | 0.6                  | 1.0   | 14.0                  | 21.5  |
| 19      | 9.0                  | 14.0  | 25.0                 | 28.0  | 15.0                | 24.0  | 12.0              | 16.0  | 68.0                  | 60.0   | -                         | -     | 0.0                     | 0.9   | SE                      | SW    | -             | -     | 1.0                  | 1.0   | 12.0                  | 20.0  |
| 20      | 10.0                 | 13.0  | 27.0                 | 27.0  | 15.0                | 25.0  | 13.0              | 18.0  | 78.0                  | 47.0   | -                         | -     | 0.1                     | 0.9   | SE                      | NE    | -             | -     | 0.8                  | 1.2   | 13.0                  | 20.5  |
| 21      | 9.0                  | 13.0  | 26.0                 | 28.0  | 14.0                | 26.0  | 13.0              | 18.0  | 89.0                  | 42.0   | -                         | -     | 0.1                     | 1.0   | SW                      | SW    | -             | -     | 0.8                  | 1.4   | 13.0                  | 20.0  |
| 22      | 8.0                  | 13.0  | 24.0                 | 28.0  | 15.0                | 20.0  | 14.0              | 18.0  | 89.0                  | 81.0   | -                         | -     | 0.9                     | 1.2   | SW                      | SE    | -             | -     | 1.0                  | 1.0   | 13.5                  | 20.0  |
| 23      | 10.0                 | 13.0  | 22.0                 | 29.0  | 15.0                | 22.0  | 14.0              | 17.0  | 89.0                  | 58.0   | -                         | -     | 0.0                     | 1.1   | SE                      | SW    | -             | -     | 0.8                  | 1.0   | 13.5                  | 20.5  |
| 24      | 9.0                  | 14.0  | 24.0                 | 28.0  | 15.0                | 24.0  | 13.0              | 18.0  | 78.0                  | 53.0   | -                         | -     | 0.0                     | 1.2   | SW                      | SW    | -             | -     | 0.6                  | 1.2   | 12.5                  | 21.0  |
| 25      | 10.0                 | 12.0  | 26.0                 | 29.0  | 13.0                | 25.0  | 12.0              | 18.0  | 88.0                  | 47.0   | -                         | -     | -                       | 0.9   | SW                      | SW    | -             | -     | 0.4                  | 0.8   | 12.5                  | 22.0  |
| 26      | 9.0                  | 11.0  | 27.0                 | 28.0  | 10.0                | 23.0  | 9.0               | 17.0  | 87.0                  | 52.0   | -                         | -     | 0.0                     | 1.7   | SW                      | SE    | -             | -     | 0.8                  | 1.0   | 12.5                  | 21.0  |
| 27      | 7.0                  | 13.0  | 25.0                 | 27.0  | 15.0                | 24.0  | 13.0              | 16.0  | 78.0                  | 39.0   | -                         | -     | 0.1                     | 1.1   | SE                      | SE    | -             | -     | 0.8                  | 1.0   | 11.5                  | 21.0  |
| 28      | 7.0                  | 14.0  | 24.0                 | 28.0  | 15.0                | 25.0  | 12.0              | 17.0  | 68.0                  | 41.0   | -                         | -     | 0.0                     | 1.1   | SE                      | SW    | -             | -     | 0.6                  | 1.0   | 12.0                  | 20.0  |
| 29      | 8.0                  | 15.0  | 25.0                 | 28.0  | 16.0                | 25.0  | 13.0              | 17.0  | 69.0                  | 41.0   | -                         | -     | 0.0                     | 1.2   | SW                      | SW    | -             | -     | 0.6                  | 1.2   | 13.0                  | 21.0  |
| 30      | 8.0                  | 14.0  | 27.0                 | 29.0  | 15.0                | 25.0  | 13.0              | 18.0  | 78.0                  | 47.0   | -                         | -     | 0.0                     | 1.2   | SW                      | SE    | -             | -     | 0.8                  | 1.0   | 14.0                  | 21.5  |
| 31      | 9.0                  |       | 27.0                 |       | 16.0                |       | 14.0              |       | 75.0                  |        | -                         |       | 0.0                     |       | NW                      |       | -             |       | 0.6                  |       | 14.5                  |       |
| Total   | 322.0                | 459.0 | 821.0                | 888.0 | 496.0               | 766.0 | 438.0             | 561.0 | 2489.0                | 1578.0 | -                         | -     | 2.6                     | 37.8  |                         |       | -             | -     | 24.0                 | 34.4  | 450.0                 | 681.5 |
| Average | 10.4                 | 14.8  | 26.5                 | 28.6  | 16.0                | 24.7  | 14.1              | 18.1  | 80.3                  | 50.9   | -                         | -     | 0.1                     | 1.2   |                         |       |               |       |                      |       | 14.5                  | 22.0  |
|         | 12.6                 |       | 27.6                 |       | 20.4                |       | 16.1              |       | 65.6                  |        | 0.0                       |       | 0.7                     |       |                         |       | 0.0           |       | 58.4                 |       | 18.3                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 15.0  |                      | 28.0  |                     | 26.0  |                   | 18.0  |                       | 42.0   |                           | -     |                         | 0.4   |                         | SE    |               | -     |                      | 1.2   |                       | 21.0  |
| 1       | 10.0                 | 15.0  | 28.0                 | 29.0  | 16.0                | 24.0  | 14.0              | 18.0  | 79.0                  | 53.0   | -                         | -     | 0.6                     | 1.4   | SW                      | SW    | -             | -     | 0.4                  | 0.8   | 14.5                  | 22.0  |
| 2       | 11.0                 | 14.0  | 26.0                 | 28.0  | 15.0                | 23.0  | 13.0              | 17.0  | 78.0                  | 52.0   | -                         | -     | 0.0                     | 1.3   | SW                      | NW    | -             | -     | 0.8                  | 1.2   | 15.0                  | 22.0  |
| 3       | 10.0                 | 14.0  | 25.0                 | 27.0  | 14.0                | 21.0  | 13.0              | 16.0  | 89.0                  | 52.0   | -                         | -     | 0.1                     | 1.3   | NW                      | SE    | -             | -     | 1.0                  | 1.2   | 15.0                  | 22.0  |
| 4       | 8.0                  | 13.0  | 24.0                 | 27.0  | 10.0                | 24.0  | 8.0               | 15.0  | 89.0                  | 33.0   | -                         | -     | 0.1                     | 1.2   | SE                      | SE    | -             | -     | 1.0                  | 1.4   | 13.0                  | 21.0  |
| 5       | 7.0                  | 14.0  | 25.0                 | 27.0  | 14.0                | 23.0  | 12.0              | 16.0  | 78.0                  | 45.0   | -                         | -     | 0.1                     | 1.0   | SE                      | SE    | -             | -     | 0.8                  | 1.4   | 12.0                  | 20.0  |
| 6       | 6.0                  | 18.0  | 26.0                 | 27.0  | 17.0                | 24.0  | 13.0              | 17.0  | 61.0                  | 46.0   | -                         | -     | 0.1                     | 1.1   | SE                      | SE    | -             | -     | 0.6                  | 1.0   | 13.0                  | 21.0  |
| 7       | 8.0                  | 15.0  | 25.0                 | 27.0  | 15.0                | 24.0  | 12.0              | 17.0  | 68.0                  | 46.0   | -                         | -     | 0.0                     | 1.4   | SE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 20.0  |
| 8       | 8.0                  | 16.0  | 25.0                 | 26.0  | 16.0                | 24.0  | 12.0              | 17.0  | 59.0                  | 46.0   | -                         | -     | 0.1                     | 1.4   | NW                      | SW    | -             | -     | 0.8                  | 1.2   | 12.0                  | 20.0  |
| 9       | 7.0                  | 13.0  | 25.0                 | 28.0  | 13.0                | 24.0  | 11.0              | 15.0  | 77.0                  | 33.0   | -                         | -     | 0.0                     | 1.5   | SW                      | SE    | -             | -     | 0.8                  | 1.2   | 11.0                  | 20.0  |
| 10      | 7.0                  | 12.0  | 25.0                 | 28.0  | 13.0                | 23.0  | 11.0              | 16.0  | 77.0                  | 45.0   | -                         | -     | 0.0                     | 1.3   | SW                      | SE    | -             | -     | 1.0                  | 1.4   | 11.0                  | 20.0  |
| 11      | 8.0                  | 11.0  | 23.0                 | 29.0  | 13.0                | 26.0  | 11.0              | 17.0  | 77.0                  | 36.0   | -                         | -     | 0.0                     | 1.4   | NE                      | SE    | -             | -     | 0.8                  | 1.2   | 11.0                  | 20.0  |
| 12      | 8.0                  | 10.0  | 27.0                 | 30.0  | 10.0                | 24.0  | 9.0               | 17.0  | 87.0                  | 46.0   | -                         | -     | 0.0                     | 1.1   | SE                      | SE    | -             | -     | 0.8                  | 1.2   | 12.0                  | 21.0  |
| 13      | 10.0                 | 11.0  | 25.0                 | 29.0  | 13.0                | 26.0  | 11.0              | 17.0  | 77.0                  | 36.0   | -                         | -     | 0.0                     | 1.7   | SE                      | SW    | -             | -     | 1.0                  | 1.4   | 13.0                  | 21.0  |
| 14      | 11.0                 | 13.0  | 28.0                 | 30.0  | 14.0                | 27.0  | 13.0              | 19.0  | 89.0                  | 44.0   | -                         | -     | 0.0                     | 1.2   | SW                      | SE    | -             | -     | 1.0                  | 1.4   | 14.0                  | 22.0  |
| 15      | 9.0                  | 18.0  | 28.0                 | 30.0  | 19.0                | 25.0  | 14.0              | 17.0  | 63.0                  | 41.0   | -                         | -     | 0.0                     | 1.9   | SE                      | SE    | -             | -     | 0.8                  | 1.0   | 14.0                  | 23.5  |
| 16      | 8.0                  | 14.0  | 27.0                 | 29.0  | 14.0                | 24.0  | 12.0              | 17.0  | 78.0                  | 46.0   | -                         | -     | 0.0                     | 1.3   | SE                      | SE    | -             | -     | 0.8                  | 1.4   | 14.5                  | 21.0  |
| 17      | 8.0                  | 12.0  | 25.0                 | 30.0  | 13.0                | 24.0  | 11.0              | 17.0  | 77.0                  | 44.0   | -                         | -     | 0.1                     | 0.5   | SE                      | SE    | -             | -     | 0.8                  | 1.4   | 12.0                  | 21.0  |
| 18      | 9.0                  | 17.0  | 26.0                 | 29.0  | 16.0                | 25.0  | 12.0              | 17.0  | 59.0                  | 41.0   | -                         | -     | 0.5                     | 0.2   | SW                      | SE    | -             | -     | 0.8                  | 1.4   | 13.0                  | 21.0  |
| 19      | 8.0                  | 12.0  | 26.0                 | 29.0  | 13.0                | 24.0  | 11.0              | 17.0  | 77.0                  | 46.0   | -                         | -     | 0.3                     | 1.4   | SW                      | SW    | -             | -     | 0.8                  | 1.4   | 12.0                  | 21.0  |
| 20      | 9.0                  | 11.0  | 25.0                 | 30.0  | 13.0                | 25.0  | 11.0              | 17.0  | 77.0                  | 63.0   | -                         | -     | 0.0                     | 1.4   | SE                      | SE    | -             | -     | 0.8                  | 1.4   | 12.0                  | 22.0  |
| 21      | 10.0                 | 14.0  | 26.0                 | 30.0  | 15.0                | 26.0  | 13.0              | 19.0  | 78.0                  | 49.0   | -                         | -     | 0.0                     | 1.3   | SE                      | SW    | -             | -     | 1.0                  | 1.2   | 13.0                  | 23.5  |
| 22      | 11.0                 | 14.0  | 27.0                 | 30.0  | 15.0                | 25.0  | 13.0              | 19.0  | 78.0                  | 54.0   | -                         | -     | 0.0                     | 1.3   | SW                      | NE    | -             | -     | 1.0                  | 1.2   | 15.5                  | 24.0  |
| 23      | 11.0                 | 14.0  | 26.0                 | 29.0  | 14.0                | 25.0  | 13.0              | 18.0  | 89.0                  | 47.0   | -                         | -     | 0.0                     | 1.2   | NE                      | NE    | -             | -     | 1.0                  | 1.2   | 14.0                  | 23.5  |
| 24      | 13.0                 | 17.0  | 27.0                 | 30.0  | 17.0                | 26.0  | 15.0              | 19.0  | 80.0                  | 49.0   | -                         | -     | 0.0                     | 1.5   | NE                      | SE    | -             | -     | 0.8                  | 1.2   | 17.0                  | 23.0  |
| 25      | 10.0                 | 16.0  | 26.0                 | 29.0  | 14.0                | 26.0  | 13.0              | 17.0  | 89.0                  | 36.0   | -                         | -     | 0.0                     | 1.8   | SE                      | SW    | -             | -     | 1.0                  | 1.2   | 14.0                  | 24.0  |
| 26      | 9.0                  | 17.0  | 27.0                 | 29.0  | 13.0                | 25.0  | 12.0              | 17.0  | 88.0                  | 63.0   | -                         | -     | 0.1                     | 2.0   | NW                      | SW    | -             | -     | 0.8                  | 1.2   | 12.5                  | 23.0  |
| 27      | 9.0                  | 12.0  | 26.0                 | 29.0  | 13.0                | 25.0  | 11.0              | 17.0  | 77.0                  | 63.0   | -                         | -     | 0.1                     | 1.2   | SE                      | NE    | -             | -     | 0.8                  | 1.2   | 12.0                  | 21.0  |
| 28      | 8.0                  | 12.0  | 27.0                 | 30.0  | 13.0                | 26.0  | 11.0              | 17.0  | 77.0                  | 36.0   | -                         | -     | 0.0                     | 1.9   | NE                      | SE    | -             | -     | 0.8                  | 1.4   | 12.0                  | 22.0  |
| 29      | 9.0                  | 11.0  | 26.0                 | 30.0  | 13.0                | 24.0  | 11.0              | 17.0  | 77.0                  | 46.0   | -                         | -     | 0.0                     | 2.6   | SE                      | SE    | -             | -     | 1.0                  | 1.4   | 12.0                  | 21.0  |
| 30      | 9.0                  | 12.0  | 26.0                 | 31.0  | 13.0                | 27.0  | 11.0              | 17.0  | 77.0                  | 32.0   | -                         | -     | 0.4                     | 0.3   | SE                      | SE    | -             | -     | 1.0                  | 1.4   | 12.0                  | 23.0  |
| 31      | 10.0                 |       | 29.0                 |       | 13.0                |       | 11.0              |       | 77.0                  |        | -                         |       | 0.1                     |       | SE                      |       | -             |       | 1.0                  |       | 13.0                  |       |
| Total   | 279.0                | 427.0 | 807.0                | 894.0 | 434.0               | 765.0 | 368.0             | 531.0 | 2403.0                | 1411.0 | -                         | -     | 3.0                     | 40.7  |                         |       | -             | -     | 26.8                 | 38.8  | 405.0                 | 670.5 |
| Average | 9.0                  | 13.8  | 26.0                 | 28.8  | 14.0                | 24.7  | 11.9              | 17.1  | 77.5                  | 45.5   | -                         | -     | 0.1                     | 1.3   |                         |       |               |       |                      |       | 13.1                  | 21.6  |
|         | 11.4                 |       | 27.4                 |       | 19.3                |       | 14.5              |       | 61.5                  |        | 0.0                       |       | 0.7                     |       |                         |       | 0.0           |       | 65.6                 |       | 17.3                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 12.0  |                      | 31.0  |                     | 26.0  |                   | 18.0  |                       | 42.0   |                           | -     |                         | 2.6   |                         | SE    |               | -     |                      | 1.4   |                       | 23.5  |
| 1       | 11.0                 | 13.0  | 30.0                 | 32.0  | 14.0                | 27.0  | 12.0              | 17.0  | 78.0                  | 32.0   | -                         | -     | 0.3                     | 3.0   | SE                      | SE    | -             | -     | 1.0                  | 1.6   | 14.0                  | 24.0  |
| 2       | 10.0                 | 16.0  | 29.0                 | 33.0  | 17.0                | 28.0  | 15.0              | 18.0  | 80.0                  | 33.0   | -                         | -     | 0.0                     | 1.8   | SE                      | SE    | -             | -     | 1.2                  | 1.8   | 14.0                  | 24.0  |
| 3       | 12.0                 | 17.0  | 28.0                 | 34.0  | 17.0                | 28.0  | 15.0              | 20.0  | 80.0                  | 45.0   | -                         | -     | 0.0                     | 1.8   | SE                      | NE    | -             | -     | 1.4                  | 1.8   | 15.0                  | 25.0  |
| 4       | 13.0                 | 17.0  | 30.0                 | 34.0  | 18.0                | 27.0  | 15.0              | 20.0  | 71.0                  | 50.0   | -                         | -     | 0.0                     | 2.3   | NE                      | NE    | -             | -     | 1.4                  | 1.6   | 16.5                  | 25.0  |
| 5       | 14.0                 | 17.0  | 30.0                 | 34.0  | 20.0                | 28.0  | 16.0              | 21.0  | 64.0                  | 51.0   | -                         | -     | 0.0                     | 1.0   | NE                      | SW    | -             | -     | 1.2                  | 1.4   | 17.0                  | 26.0  |
| 6       | 15.0                 | 19.0  | 32.0                 | 34.0  | 20.0                | 30.0  | 17.0              | 22.0  | 73.0                  | 47.0   | -                         | -     | 0.0                     | 1.4   | NE                      | NE    | -             | -     | 1.0                  | 1.4   | 17.0                  | 27.0  |
| 7       | 17.0                 | 18.0  | 38.0                 | 27.0  | 19.0                | 24.0  | 17.0              | 20.0  | 81.0                  | 68.0   | -                         | -     | 0.1                     | 0.2   | NE                      | NE    | -             | -     | 1.0                  | 1.2   | 19.0                  | 22.0  |
| 8       | 16.0                 | 18.0  | 27.0                 | 33.0  | 18.0                | 30.0  | 16.0              | 22.0  | 80.0                  | 47.0   | -                         | -     | 0.3                     | 2.1   | NE                      | NE    | -             | -     | 0.8                  | 1.4   | 19.5                  | 25.0  |
| 9       | 15.0                 | 15.0  | 30.0                 | 33.0  | 20.0                | 30.0  | 17.0              | 22.0  | 73.0                  | 47.0   | -                         | -     | 0.3                     | 1.2   | NE                      | NE    | -             | -     | 1.0                  | 1.4   | 14.0                  | 26.0  |
| 10      | 17.0                 | 19.0  | 32.0                 | 30.0  | 19.0                | 26.0  | 15.0              | 16.0  | 63.0                  | 30.0   | -                         | -     | 0.8                     | 2.1   | NE                      | SE    | -             | -     | 1.0                  | 1.6   | 18.0                  | 24.0  |
| 11      | 15.0                 | 19.0  | 27.0                 | 32.0  | 19.0                | 28.0  | 14.0              | 22.0  | 54.0                  | 57.0   | -                         | -     | 0.4                     | 3.4   | SE                      | SW    | -             | -     | 1.2                  | 1.4   | 17.0                  | 24.0  |
| 12      | 16.0                 | 17.0  | 29.0                 | 27.0  | 18.0                | 23.0  | 17.0              | 18.0  | 90.0                  | 59.0   | -                         | -     | 1.7                     | 3.9   | SW                      | SW    | 7.8           | -     | 0.8                  | 1.2   | 17.0                  | 23.5  |
| 13      | 17.0                 | 18.0  | 24.0                 | 28.0  | 19.0                | 21.0  | 18.0              | 18.0  | 90.0                  | 73.0   | -                         | 6.0   | 0.7                     | 2.5   | SW                      | SE    | 1.2           | -     | 1.2                  | 0.8   | 18.0                  | 23.0  |
| 14      | 15.0                 | 17.0  | 22.0                 | 27.0  | 18.0                | 25.0  | 17.0              | 20.0  | 90.0                  | 61.0   | -                         | 4.0   | 2.4                     | 2.3   | SW                      | SW    | 12.8          | -     | 1.0                  | 0.6   | 16.5                  | 26.0  |
| 15      | 13.0                 | 14.0  | 26.0                 | 28.0  | 14.0                | 26.0  | 13.0              | 18.0  | 89.0                  | 42.0   | -                         | -     | 0.0                     | 2.0   | SE                      | SE    | -             | -     | 0.8                  | 1.2   | 17.0                  | 26.0  |
| 16      | 12.0                 | 19.0  | 28.0                 | 31.0  | 14.0                | 28.0  | 13.0              | 19.0  | 89.0                  | 39.0   | -                         | -     | 0.1                     | 2.1   | SE                      | SE    | -             | -     | 1.0                  | 1.4   | 15.0                  | 27.0  |
| 17      | 14.0                 | 18.0  | 29.0                 | 32.0  | 18.0                | 28.0  | 16.0              | 19.0  | 80.0                  | 39.0   | -                         | -     | 0.1                     | 2.3   | SE                      | NE    | -             | -     | 1.0                  | 1.4   | 17.0                  | 27.0  |
| 18      | 14.0                 | 18.0  | 29.0                 | 31.0  | 18.0                | 28.0  | 17.0              | 19.0  | 90.0                  | 39.0   | -                         | -     | 0.1                     | 0.6   | NE                      | SE    | -             | -     | 1.0                  | 1.4   | 17.0                  | 27.0  |
| 19      | 14.0                 | 19.0  | 30.0                 | 34.0  | 19.0                | 28.0  | 18.0              | 21.0  | 90.0                  | 51.0   | -                         | -     | 0.0                     | 1.7   | SE                      | SW    | -             | -     | 1.2                  | 1.8   | 17.0                  | 27.0  |
| 20      | 17.0                 | 20.0  | 30.0                 | 33.0  | 21.0                | 30.0  | 17.0              | 21.0  | 65.0                  | 42.0   | 2.0                       | -     | 0.7                     | 2.3   | SE                      | SE    | -             | -     | 1.8                  | 1.0   | 19.0                  | 27.5  |
| 21      | 15.0                 | 21.0  | 31.0                 | 34.0  | 20.0                | 30.0  | 16.0              | 20.0  | 64.0                  | 35.0   | -                         | -     | 0.1                     | 2.3   | SE                      | SE    | -             | -     | 1.4                  | 2.0   | 19.0                  | 28.0  |
| 22      | 15.0                 | 22.0  | 32.0                 | 34.0  | 22.0                | 28.0  | 17.0              | 21.0  | 59.0                  | 51.0   | -                         | -     | 0.0                     | 1.6   | SE                      | SW    | -             | -     | 1.2                  | 1.8   | 18.0                  | 28.5  |
| 23      | 15.0                 | 22.0  | 34.0                 | 36.0  | 24.0                | 31.0  | 18.0              | 21.0  | 53.0                  | 37.5   | -                         | -     | 0.4                     | 1.9   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 20.0                  | 28.5  |
| 24      | 17.0                 | 27.0  | 33.0                 | 37.0  | 22.0                | 33.0  | 18.0              | 23.0  | 66.0                  | 40.0   | -                         | -     | 0.2                     | 1.7   | SW                      | NE    | -             | -     | 1.6                  | 1.0   | 19.5                  | 29.5  |
| 25      | 18.0                 | 22.0  | 34.0                 | 36.0  | 23.0                | 32.0  | 19.0              | 23.0  | 67.0                  | 44.0   | -                         | -     | 0.1                     | 2.4   | NE                      | NE    | -             | -     | 1.6                  | 2.0   | 20.0                  | 29.5  |
| 26      | 19.0                 | 22.0  | 33.0                 | 35.0  | 23.0                | 32.0  | 19.0              | 23.0  | 67.0                  | 44.0   | -                         | -     | 0.2                     | 2.5   | SW                      | NE    | -             | -     | 1.8                  | 2.0   | 20.5                  | 29.0  |
| 27      | 20.0                 | 22.0  | 33.0                 | 35.0  | 23.0                | 32.0  | 19.0              | 20.0  | 67.0                  | 32.0   | -                         | -     | 0.2                     | 3.0   | NE                      | NE    | -             | -     | 1.8                  | 2.2   | 19.5                  | 28.5  |
| 28      | 15.0                 |       | 33.0                 |       | 21.0                |       | 17.0              |       | 65.0                  |        | -                         |       | 0.0                     |       | SE                      |       | -             |       | 1.8                  |       | 19.0                  |       |
| Total   | 421.0                | 518.0 | 843.0                | 905.0 | 538.0               | 787.0 | 458.0             | 562.0 | 2078.0                | 1277.5 | 2.0                       | 10.0  | 9.3                     | 57.9  |                         |       | 21.8          | -     | 34.2                 | 41.8  | 490.0                 | 731.0 |
| Average | 15.0                 | 18.5  | 30.1                 | 32.3  | 19.2                | 28.1  | 16.4              | 20.1  | 74.2                  | 45.6   | 0.1                       | 0.4   | 0.3                     | 2.1   |                         |       |               |       |                      |       | 17.5                  | 26.1  |
|         | 16.8                 |       | 31.2                 |       | 23.7                |       | 18.2              |       | 59.9                  |        | 0.2                       |       | 1.2                     |       |                         |       | 21.8          |       | 76.0                 |       | 21.8                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 23.0  |                      | 35.0   |                     | 32.0   |                   | 23.0  |                       | 44.0   |                           | -     |                         | 1.1   |                         | SE    |               | -     |                      | 2.4   |                       | 29.0  |
| 1       | 17.0                 | 24.0  | 37.0                 | 37.0   | 23.0                | 36.0   | 19.0              | 23.0  | 67.0                  | 30.0   | -                         | -     | 0.7                     | 2.5   | SE                      | SE    | -             | -     | 2.0                  | 2.4   | 19.5                  | 30.0  |
| 2       | 18.0                 | 25.0  | 37.0                 | 37.0   | 25.0                | 36.0   | 20.0              | 23.0  | 61.0                  | 30.0   | -                         | -     | 0.1                     | 2.0   | SE                      | SE    | -             | -     | 2.0                  | 2.4   | 20.0                  | 30.0  |
| 3       | 19.0                 | 25.0  | 33.0                 | 37.0   | 25.0                | 35.0   | 20.0              | 22.0  | 61.0                  | 28.5   | -                         | -     | 0.1                     | 2.4   | SE                      | NE    | -             | -     | 2.0                  | 2.6   | 21.0                  | 30.0  |
| 4       | 18.0                 | 24.0  | 36.0                 | 39.0   | 25.0                | 34.0   | 19.0              | 24.0  | 54.0                  | 41.0   | 2.0                       | -     | 0.3                     | 1.8   | SE                      | NE    | -             | -     | 2.0                  | 2.8   | 21.0                  | 31.0  |
| 5       | 20.0                 | 24.0  | 36.0                 | 34.0   | 24.0                | 30.0   | 19.0              | 20.0  | 60.0                  | 36.0   | -                         | -     | 0.2                     | 5.2   | NE                      | NE    | -             | -     | 2.2                  | 2.6   | 21.5                  | 27.0  |
| 6       | 18.0                 | 26.0  | 30.0                 | 36.0   | 23.0                | 32.0   | 18.0              | 22.0  | 55.0                  | 39.0   | -                         | -     | 0.6                     | 2.1   | SW                      | NE    | -             | -     | 2.0                  | 2.4   | 19.5                  | 29.5  |
| 7       | 17.0                 | 23.0  | 34.0                 | 36.0   | 23.0                | 32.0   | 18.0              | 22.0  | 55.0                  | 39.0   | -                         | -     | 0.1                     | 2.1   | NE                      | SW    | -             | -     | 1.8                  | 2.4   | 20.0                  | 30.0  |
| 8       | 18.0                 | 23.0  | 33.0                 | 36.0   | 24.0                | 30.0   | 17.0              | 20.0  | 46.0                  | 36.0   | 2.0                       | -     | 0.1                     | 4.3   | SW                      | SW    | -             | -     | 3.0                  | 2.6   | 20.0                  | 28.0  |
| 9       | 20.0                 | 21.0  | 32.0                 | 36.0   | 23.0                | 30.0   | 18.0              | 23.0  | 55.0                  | 53.0   | -                         | -     | 1.5                     | 1.4   | SE                      | SE    | -             | -     | 2.8                  | 3.0   | 20.0                  | 28.0  |
| 10      | 17.0                 | 22.0  | 32.0                 | 38.0   | 23.0                | 34.0   | 18.0              | 22.0  | 55.0                  | 32.0   | -                         | -     | 0.0                     | 2.1   | NE                      | SE    | -             | -     | 2.0                  | 2.8   | 19.5                  | 30.5  |
| 11      | 20.0                 | 23.0  | 35.0                 | 38.0   | 24.0                | 34.0   | 17.0              | 23.0  | 46.0                  | 36.0   | -                         | -     | 0.1                     | 2.0   | SE                      | SE    | -             | -     | 2.0                  | 2.6   | 21.0                  | 30.5  |
| 12      | 22.0                 | 25.0  | 35.0                 | 37.0   | 25.0                | 34.0   | 19.0              | 22.0  | 54.0                  | 32.0   | 2.0                       | 2.0   | 1.1                     | 3.3   | SE                      | NE    | -             | -     | 2.4                  | 3.0   | 22.0                  | 30.0  |
| 13      | 19.0                 | 24.0  | 34.0                 | 38.0   | 24.0                | 34.0   | 19.0              | 22.0  | 60.0                  | 32.0   | 2.0                       | 2.0   | 1.1                     | 4.9   | NE                      | NE    | -             | -     | 2.2                  | 3.2   | 20.5                  | 30.5  |
| 14      | 18.0                 | 25.0  | 36.0                 | 40.0   | 24.0                | 36.0   | 17.0              | 23.0  | 46.0                  | 36.0   | -                         | -     | 0.2                     | 2.6   | NE                      | NE    | -             | -     | 2.2                  | 3.6   | 20.0                  | 31.0  |
| 15      | 21.0                 | 25.0  | 38.0                 | 35.0   | 25.0                | 34.0   | 19.0              | 23.0  | 54.0                  | 36.0   | 2.0                       | -     | 0.4                     | 3.4   | SE                      | SE    | -             | -     | 2.6                  | 3.4   | 21.0                  | 29.0  |
| 16      | 20.0                 | 21.0  | 35.0                 | 36.0   | 22.0                | 22.0   | 20.0              | 20.0  | 82.0                  | 82.0   | -                         | 2.0   | 1.6                     | 4.4   | NE                      | NE    | 3.2           | -     | 2.0                  | 0.6   | 20.0                  | 22.0  |
| 17      | 18.0                 | 23.0  | 33.0                 | 33.0   | 24.0                | 30.0   | 21.0              | 23.0  | 75.0                  | 53.0   | -                         | -     | 0.9                     | 3.3   | NE                      | NE    | -             | -     | 1.0                  | 1.4   | 20.0                  | 28.0  |
| 18      | 19.0                 | 24.0  | 32.0                 | 36.0   | 25.0                | 32.0   | 20.0              | 22.0  | 56.0                  | 39.0   | -                         | -     | 0.3                     | 2.8   | NE                      | SE    | -             | -     | 2.6                  | 3.0   | 21.5                  | 30.0  |
| 19      | 18.0                 | 25.0  | 34.0                 | 38.0   | 26.0                | 34.0   | 18.0              | 23.0  | 42.0                  | 36.0   | 2.0                       | -     | 0.2                     | 3.0   | NW                      | SE    | -             | -     | 3.4                  | 3.8   | 20.0                  | 30.0  |
| 20      | 18.0                 | 22.0  | 34.0                 | 37.0   | 23.0                | 34.0   | 18.0              | 22.0  | 55.0                  | 32.0   | -                         | -     | 0.3                     | 1.6   | SW                      | NE    | -             | -     | 2.8                  | 3.0   | 20.0                  | 30.0  |
| 21      | 19.0                 | 23.0  | 35.0                 | 37.0   | 24.0                | 34.0   | 17.0              | 23.0  | 46.0                  | 36.0   | -                         | -     | 0.2                     | 0.7   | SE                      | NE    | -             | -     | 2.6                  | 3.0   | 21.0                  | 30.0  |
| 22      | 20.0                 | 23.0  | 34.0                 | 38.0   | 24.0                | 34.0   | 19.0              | 23.0  | 60.0                  | 36.0   | -                         | -     | 1.5                     | 2.0   | SE                      | SW    | -             | -     | 2.4                  | 3.0   | 21.0                  | 31.0  |
| 23      | 19.0                 | 25.0  | 35.0                 | 39.0   | 25.0                | 34.0   | 19.0              | 22.0  | 54.0                  | 32.0   | -                         | -     | 0.6                     | 3.2   | SE                      | NE    | -             | -     | 2.6                  | 3.2   | 21.0                  | 31.0  |
| 24      | 19.0                 | 25.0  | 36.0                 | 39.0   | 25.0                | 36.0   | 19.0              | 23.0  | 54.0                  | 30.0   | -                         | -     | 0.2                     | 3.3   | NE                      | NE    | -             | -     | 2.6                  | 3.2   | 20.0                  | 30.0  |
| 25      | 20.0                 | 26.0  | 36.0                 | 38.0   | 26.0                | 36.0   | 18.0              | 23.0  | 42.0                  | 30.0   | -                         | -     | 0.3                     | 1.2   | SW                      | SW    | -             | -     | 2.6                  | 3.2   | 21.0                  | 31.0  |
| 26      | 18.0                 | 25.0  | 37.0                 | 37.0   | 24.0                | 34.0   | 17.0              | 22.0  | 46.0                  | 32.0   | -                         | -     | 1.1                     | 3.5   | SE                      | SE    | -             | -     | 2.4                  | 3.0   | 21.0                  | 30.0  |
| 27      | 18.0                 | 25.0  | 36.0                 | 39.0   | 26.0                | 34.0   | 18.0              | 22.0  | 42.0                  | 32.0   | -                         | -     | 0.2                     | 2.6   | NE                      | SE    | -             | -     | 2.4                  | 3.2   | 20.0                  | 31.0  |
| 28      | 18.0                 | 25.0  | 36.0                 | 41.0   | 25.0                | 34.0   | 19.0              | 23.0  | 54.0                  | 36.0   | -                         | -     | 0.1                     | 1.5   | SE                      | SE    | -             | -     | 2.4                  | 3.4   | 20.0                  | 30.0  |
| 29      | 20.0                 | 26.0  | 36.0                 | 40.0   | 26.0                | 34.0   | 18.0              | 23.0  | 42.0                  | 36.0   | -                         | -     | 0.1                     | 1.3   | SW                      | SW    | -             | -     | 2.6                  | 3.4   | 20.0                  | 30.0  |
| 30      | 20.0                 | 27.0  | 36.0                 | 42.0   | 28.0                | 36.0   | 19.0              | 24.0  | 39.0                  | 26.0   | -                         | -     | 0.4                     | 2.2   | SW                      | NE    | -             | -     | 2.6                  | 3.4   | 21.0                  | 31.0  |
| 31      | 20.0                 |       | 38.0                 |        | 30.0                |        | 22.0              |       | 47.0                  |        | -                         |       | 1.8                     |       | SW                      |       | -             |       | 2.6                  |       | 21.0                  |       |
| Total   | 586.0                | 747.0 | 1081.0               | 1159.0 | 763.0               | 1031.0 | 579.0             | 695.0 | 1665.0                | 1148.5 | 12.0                      | 6.0   | 16.5                    | 80.0  |                         |       | 3.2           | -     | 72.8                 | 88.0  | 635.0                 | 919.0 |
| Average | 18.9                 | 24.1  | 34.9                 | 37.4   | 24.6                | 33.3   | 18.7              | 22.4  | 53.7                  | 37.0   | 0.4                       | 0.2   | 0.5                     | 2.6   |                         |       |               |       |                      |       | 20.5                  | 29.6  |
|         | 21.5                 |       | 36.1                 |        | 28.9                |        | 20.5              |       | 45.4                  |        | 0.3                       |       | 1.6                     |       |                         |       | 3.2           |       | 160.8                |       | 25.1                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
- 0.0 N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 28.0  |                      | 42.0   |                     | 36.0   |                   | 24.0  |                       | 34.0   |                           | -     |                         | 2.6   |                         | NE    |               | -     |                      | 3.4   |                       | 31.0  |
| 1       | 22.0                 | 26.0  | 37.0                 | 42.0   | 28.0                | 31.0   | 21.0              | 21.0  | 51.0                  | 37.5   | 2.0                       | 6.0   | 1.1                     | 2.7   | SW                      | SW    | -             | -     | 2.2                  | 2.6   | 22.0                  | 29.0  |
| 2       | 18.0                 | 23.0  | 33.0                 | 37.0   | 24.0                | 34.0   | 20.0              | 24.0  | 68.0                  | 41.0   | -                         | -     | 2.9                     | 2.3   | NW                      | SE    | 3.6           | -     | 2.0                  | 2.2   | 19.0                  | 31.0  |
| 3       | 21.0                 | 25.0  | 33.0                 | 39.0   | 26.0                | 36.0   | 22.0              | 24.0  | 69.0                  | 34.0   | 2.0                       | 2.0   | 0.5                     | 2.8   | SW                      | SE    | -             | -     | 2.2                  | 3.2   | 22.0                  | 33.0  |
| 4       | 19.0                 | 24.0  | 37.0                 | 39.0   | 25.0                | 30.0   | 21.0              | 24.0  | 65.0                  | 34.0   | 2.0                       | -     | 0.3                     | 2.9   | NE                      | SE    | -             | -     | 2.2                  | 3.2   | 21.0                  | 32.0  |
| 5       | 22.0                 | 25.0  | 36.0                 | 38.0   | 28.0                | 34.0   | 23.0              | 24.0  | 64.0                  | 41.0   | 2.0                       | 2.0   | 0.7                     | 3.5   | SW                      | SE    | -             | 11.8  | 2.2                  | 3.4   | 23.0                  | 33.0  |
| 6       | 21.0                 | 22.0  | 34.0                 | 41.0   | 28.0                | 23.0   | 22.0              | 21.0  | 57.0                  | 83.0   | 2.0                       | -     | 2.8                     | 5.0   | SW                      | SW    | -             | -     | 2.6                  | 3.8   | 24.0                  | 30.0  |
| 7       | 22.0                 | 29.0  | 31.0                 | 38.0   | 29.0                | 34.0   | 23.0              | 24.0  | 58.0                  | 41.0   | 2.0                       | -     | 2.0                     | 2.7   | NE                      | SE    | -             | -     | 3.0                  | 3.2   | 24.0                  | 32.0  |
| 8       | 24.0                 | 27.0  | 36.0                 | 38.0   | 27.0                | 34.0   | 22.0              | 24.0  | 63.0                  | 41.0   | -                         | 2.0   | 2.0                     | 3.4   | SW                      | NE    | -             | -     | 3.0                  | 3.2   | 23.5                  | 31.5  |
| 9       | 24.0                 | 29.0  | 35.0                 | 38.0   | 29.0                | 36.0   | 22.0              | 25.0  | 52.0                  | 38.0   | 2.0                       | 2.0   | 1.0                     | 4.9   | SE                      | NE    | -             | -     | 2.6                  | 3.2   | 24.0                  | 32.0  |
| 10      | 22.0                 | 26.0  | 37.0                 | 37.0   | 26.0                | 35.0   | 23.0              | 25.0  | 76.0                  | 42.0   | -                         | -     | 1.9                     | 2.7   | SE                      | SE    | 5.6           | -     | 2.0                  | 2.4   | 23.0                  | 33.0  |
| 11      | 24.0                 | 28.0  | 36.0                 | 38.0   | 29.0                | 34.0   | 23.0              | 24.0  | 58.0                  | 41.0   | 4.0                       | 2.0   | 1.9                     | 3.8   | NW                      | NE    | -             | -     | 2.2                  | 2.8   | 23.5                  | 32.0  |
| 12      | 23.0                 | 24.0  | 37.0                 | 36.0   | 26.0                | 35.0   | 22.0              | 25.0  | 69.0                  | 42.0   | 4.0                       | -     | 0.7                     | 4.9   | NW                      | NW    | -             | -     | 2.0                  | 2.6   | 24.0                  | 32.5  |
| 13      | 22.0                 | 26.0  | 35.0                 | 38.0   | 27.0                | 36.0   | 23.0              | 27.0  | 70.0                  | 48.0   | -                         | 4.0   | 1.5                     | 2.9   | NE                      | SE    | -             | -     | 2.2                  | 3.0   | 24.0                  | 33.0  |
| 14      | 24.0                 | 27.0  | 37.0                 | 39.0   | 29.0                | 36.0   | 23.0              | 26.0  | 58.0                  | 43.0   | -                         | 2.0   | 1.4                     | 4.5   | SW                      | SW    | -             | -     | 2.4                  | 2.8   | 24.5                  | 33.5  |
| 15      | 21.0                 | 27.0  | 37.0                 | 39.0   | 28.0                | 36.0   | 23.0              | 26.0  | 64.0                  | 43.0   | -                         | -     | 2.7                     | 4.7   | NE                      | NE    | -             | -     | 4.0                  | 4.2   | 22.5                  | 34.0  |
| 16      | 23.0                 | 27.0  | 37.0                 | 39.0   | 29.0                | 37.0   | 24.0              | 27.0  | 64.0                  | 44.0   | -                         | -     | 2.7                     | 3.3   | NW                      | NE    | -             | -     | 3.2                  | 4.0   | 23.0                  | 34.0  |
| 17      | 27.0                 | 28.0  | 38.0                 | 42.0   | 34.0                | 38.0   | 26.0              | 27.0  | 51.0                  | 40.0   | 4.0                       | 2.0   | 0.3                     | 5.9   | NE                      | SW    | -             | -     | 2.0                  | 4.2   | 26.5                  | 35.0  |
| 18      | 24.0                 | 29.0  | 40.0                 | 42.0   | 30.0                | 38.0   | 24.0              | 26.0  | 59.0                  | 36.0   | 2.0                       | -     | 2.2                     | 4.9   | SW                      | SE    | -             | -     | 2.2                  | 3.6   | 27.0                  | 33.5  |
| 19      | 24.0                 | 30.0  | 39.0                 | 42.0   | 31.0                | 40.0   | 22.0              | 26.0  | 43.0                  | 30.0   | -                         | -     | 0.2                     | 2.4   | SE                      | NE    | -             | -     | 2.8                  | 4.0   | 25.0                  | 35.0  |
| 20      | 24.0                 | 31.0  | 31.0                 | 43.0   | 32.0                | 42.0   | 24.0              | 28.0  | 49.0                  | 32.0   | -                         | 2.0   | 0.3                     | 4.2   | NW                      | SW    | -             | -     | 2.6                  | 4.0   | 25.0                  | 34.5  |
| 21      | 26.0                 | 32.0  | 42.0                 | 43.0   | 33.0                | 39.0   | 25.0              | 25.0  | 46.0                  | 29.0   | 2.0                       | 2.0   | 3.1                     | 4.7   | SW                      | SE    | -             | -     | 2.8                  | 4.0   | 26.0                  | 34.0  |
| 22      | 25.0                 | 34.0  | 41.0                 | 43.0   | 34.0                | 39.0   | 24.0              | 26.0  | 41.0                  | 33.0   | -                         | -     | 0.7                     | 3.4   | SE                      | SE    | -             | -     | 4.0                  | 4.2   | 25.0                  | 34.0  |
| 23      | 26.0                 | 34.0  | 39.0                 | 42.0   | 34.0                | 39.0   | 23.0              | 24.0  | 36.0                  | 25.5   | 2.0                       | -     | 0.7                     | 3.7   | SE                      | SE    | -             | -     | 3.2                  | 3.6   | 26.0                  | 33.0  |
| 24      | 25.0                 | 32.0  | 39.0                 | 42.0   | 32.0                | 38.0   | 25.0              | 25.0  | 55.0                  | 32.0   | 2.0                       | -     | 0.7                     | 3.3   | NE                      | SE    | -             | -     | 3.4                  | 3.6   | 25.0                  | 34.0  |
| 25      | 22.0                 | 30.0  | 39.0                 | 42.0   | 30.0                | 38.0   | 23.0              | 25.0  | 53.0                  | 32.0   | 4.0                       | 2.0   | 0.9                     | 4.2   | NE                      | SE    | -             | -     | 3.4                  | 3.6   | 24.0                  | 34.0  |
| 26      | 22.0                 | 31.0  | 40.0                 | 42.0   | 33.0                | 38.0   | 23.0              | 24.0  | 40.0                  | 28.0   | -                         | 4.0   | 0.6                     | 6.6   | SE                      | SW    | -             | -     | 3.6                  | 4.0   | 23.5                  | 33.0  |
| 27      | 24.0                 | 31.0  | 37.0                 | 41.0   | 31.0                | 39.0   | 23.0              | 27.0  | 44.0                  | 37.0   | -                         | 4.0   | 2.9                     | 5.8   | SW                      | NE    | -             | -     | 3.2                  | 3.6   | 23.0                  | 33.0  |
| 28      | 28.0                 | 34.0  | 40.0                 | 42.0   | 35.0                | 39.0   | 26.0              | 28.0  | 47.0                  | 41.0   | -                         | 2.0   | 2.6                     | 7.2   | SW                      | NE    | -             | -     | 3.2                  | 4.6   | 26.0                  | 34.0  |
| 29      | 27.0                 | 30.0  | 39.0                 | 42.0   | 30.0                | 40.0   | 25.0              | 28.0  | 65.0                  | 38.0   | 2.0                       | 2.0   | 2.3                     | 5.0   | SE                      | NE    | -             | -     | 3.0                  | 4.0   | 25.0                  | 35.0  |
| 30      | 27.0                 |       | 42.0                 |        | 34.0                |        | 26.0              |       | 51.0                  |        | 2.0                       |       | 2.0                     |       | NE                      |       | 0.8           |       | 3.6                  |       | 27.0                  |       |
| Total   | 703.0                | 849.0 | 1114.0               | 1206.0 | 891.0               | 1084.0 | 696.0             | 754.0 | 1686.0                | 1161.0 | 42.0                      | 42.0  | 45.6                    | 120.9 |                         |       | 10.0          | 11.8  | 83.0                 | 104.2 | 721.0                 | 988.5 |
| Average | 23.4                 | 28.3  | 37.1                 | 40.2   | 29.7                | 36.1   | 23.2              | 25.1  | 56.2                  | 38.7   | 1.4                       | 1.4   | 1.5                     | 4.0   |                         |       |               |       |                      |       | 24.0                  | 33.0  |
|         | 25.9                 |       | 38.7                 |        | 32.9                |        | 24.2              |       | 47.5                  |        | 1.4                       |       | 2.8                     |       |                         |       | 21.8          |       | 187.2                |       | 28.5                  |       |

## Twice Daily Climatic Data

Station Code : EMP00A4  
Local River/Basin : Seonath

Station Name : Jondhra  
Sub-Division : MMSD-I,CWC,Raipur  
-0.0 N.A.

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 32.0  |                      | 43.0   |                     | 36.0   |                   | 27.0  |                       | 48.0   |                           | 4.0   |                         | 5.7   |                         | SW    |               | -     |                      | 4.2   |                       | 34.0   |
| 1       | 27.0                 | 25.0  | 37.0                 | 42.0   | 32.0                | 28.0   | 25.0              | 23.0  | 55.0                  | 64.0   | -                         | 4.0   | 2.8                     | 5.3   | NW                      | SE    | -             | -     | 4.0                  | 4.4   | 26.5                  | 35.0   |
| 2       | 23.0                 | 29.0  | 30.0                 | 40.0   | 30.0                | 38.0   | 24.0              | 28.0  | 59.0                  | 45.0   | 4.0                       | 6.0   | 1.6                     | 6.3   | NW                      | SE    | -             | -     | 2.4                  | 4.2   | 25.0                  | 34.0   |
| 3       | 21.0                 | 25.0  | 37.0                 | 38.0   | 27.0                | 37.0   | 22.0              | 27.0  | 63.0                  | 48.0   | 4.0                       | -     | 4.3                     | 3.7   | SW                      | SW    | 9.0           | -     | 2.0                  | 2.0   | 23.0                  | 33.0   |
| 4       | 25.0                 | 30.0  | 38.0                 | 39.0   | 30.0                | 38.0   | 24.0              | 28.0  | 59.0                  | 43.0   | 4.0                       | 4.0   | 2.6                     | 8.6   | NE                      | NE    | -             | -     | 3.2                  | 4.0   | 24.0                  | 33.0   |
| 5       | 27.0                 | 32.0  | 38.0                 | 42.0   | 34.0                | 40.0   | 27.0              | 28.0  | 56.0                  | 38.0   | 4.0                       | 2.0   | 2.4                     | 8.0   | NE                      | NE    | -             | -     | 3.2                  | 4.2   | 26.0                  | 36.0   |
| 6       | 30.0                 | 35.0  | 42.0                 | 43.0   | 36.0                | 41.0   | 28.0              | 28.0  | 53.0                  | 35.0   | 4.0                       | -     | 4.9                     | 6.9   | SW                      | SE    | -             | -     | 3.4                  | 4.6   | 27.0                  | 35.0   |
| 7       | 30.0                 | 35.0  | 42.0                 | 43.0   | 36.0                | 41.0   | 28.0              | 28.0  | 53.0                  | 35.0   | 6.0                       | -     | 4.6                     | 6.5   | SW                      | SE    | -             | -     | 4.0                  | 5.4   | 28.0                  | 37.0   |
| 8       | 31.0                 | 36.0  | 43.0                 | 44.0   | 36.0                | 41.0   | 28.0              | 28.0  | 53.0                  | 35.0   | 6.0                       | -     | 5.0                     | 7.1   | NE                      | SE    | -             | -     | 4.0                  | 5.0   | 28.0                  | 36.0   |
| 9       | 33.0                 | 35.0  | 42.0                 | 44.0   | 36.0                | 41.0   | 26.0              | 28.0  | 43.0                  | 35.0   | -                         | -     | 0.8                     | 3.5   | NE                      | SW    | -             | 2.0   | 4.0                  | 5.0   | 27.0                  | 36.0   |
| 10      | 28.0                 | 34.0  | 43.0                 | 44.0   | 34.0                | 38.0   | 27.0              | 28.0  | 56.0                  | 43.0   | 4.0                       | -     | 2.7                     | 5.2   | SW                      | NE    | -             | -     | 4.4                  | 5.0   | 28.0                  | 36.0   |
| 11      | 28.0                 | 34.0  | 41.0                 | 44.0   | 34.0                | 40.0   | 27.0              | 28.0  | 56.0                  | 38.0   | -                         | 2.0   | 1.0                     | 3.3   | W                       | SW    | -             | -     | 4.0                  | 4.4   | 28.0                  | 35.0   |
| 12      | 26.0                 | 33.0  | 39.0                 | 43.0   | 34.0                | 40.0   | 26.0              | 28.0  | 51.0                  | 38.0   | -                         | -     | 3.8                     | 6.9   | NE                      | NE    | -             | -     | 3.8                  | 5.0   | 27.5                  | 36.0   |
| 13      | 26.0                 | 31.0  | 41.0                 | 41.0   | 31.0                | 39.0   | 24.0              | 28.0  | 54.0                  | 41.0   | 4.0                       | 6.0   | 5.5                     | 7.6   | SW                      | SW    | -             | -     | 4.0                  | 4.6   | 24.0                  | 33.0   |
| 14      | 24.0                 | 28.0  | 40.0                 | 38.0   | 28.0                | 36.0   | 25.0              | 27.0  | 74.0                  | 48.0   | 4.0                       | -     | 4.1                     | 5.9   | NW                      | NE    | 2.4           | -     | 3.6                  | 3.0   | 25.0                  | 33.0   |
| 15      | 23.0                 | 29.0  | 37.0                 | 39.0   | 28.0                | 38.0   | 25.0              | 28.0  | 71.0                  | 43.0   | -                         | -     | 3.8                     | 1.8   | NE                      | NE    | 7.8           | 1.0   | 3.8                  | 4.2   | 24.0                  | 34.0   |
| 16      | 27.0                 | 28.0  | 39.0                 | 41.0   | 28.0                | 30.0   | 24.0              | 25.0  | 70.0                  | 65.0   | -                         | 6.0   | 4.2                     | 7.5   | NE                      | SW    | -             | -     | 2.0                  | 4.2   | 26.0                  | 33.0   |
| 17      | 25.0                 | 32.0  | 33.0                 | 42.0   | 34.0                | 40.0   | 27.0              | 28.0  | 56.0                  | 38.0   | -                         | -     | 2.2                     | 4.9   | NE                      | NE    | -             | -     | 3.0                  | 4.2   | 25.5                  | 35.0   |
| 18      | 27.0                 | 32.0  | 41.0                 | 42.0   | 32.0                | 40.0   | 27.0              | 29.0  | 67.0                  | 28.0   | 2.0                       | 6.0   | 3.0                     | 10.5  | NE                      | SE    | -             | -     | 3.0                  | 4.0   | 26.0                  | 34.0   |
| 19      | 28.0                 | 34.0  | 40.0                 | 43.0   | 34.0                | 42.0   | 27.0              | 30.0  | 56.0                  | 26.0   | -                         | -     | 2.5                     | 4.0   | NE                      | NE    | -             | -     | 3.4                  | 4.6   | 26.0                  | 37.0   |
| 20      | 30.0                 | 35.0  | 43.0                 | 43.0   | 34.0                | 40.0   | 27.0              | 30.0  | 56.0                  | 47.0   | 2.0                       | -     | 1.3                     | 8.0   | NW                      | NE    | -             | -     | 3.6                  | 4.6   | 29.0                  | 36.0   |
| 21      | 23.0                 | 23.0  | 41.0                 | 42.0   | 30.0                | 38.0   | 25.0              | 29.0  | 65.0                  | 50.0   | 2.0                       | 4.0   | 3.2                     | 6.2   | NE                      | NE    | 23.4          | -     | 5.4                  | 5.8   | 26.5                  | 35.0   |
| 22      | 29.0                 | 34.0  | 39.0                 | 43.0   | 34.0                | 40.0   | 28.0              | 30.0  | 62.0                  | 47.0   | -                         | -     | 2.9                     | 4.1   | SW                      | NE    | -             | -     | 3.0                  | 4.0   | 29.0                  | 37.0   |
| 23      | 28.0                 | 34.0  | 42.0                 | 42.0   | 32.0                | 40.0   | 26.0              | 30.0  | 61.0                  | 47.0   | -                         | -     | 4.2                     | 5.0   | NE                      | NE    | -             | -     | 3.2                  | 4.0   | 28.0                  | 36.0   |
| 24      | 31.0                 | 35.0  | 42.0                 | 43.0   | 36.0                | 40.0   | 29.0              | 30.0  | 58.0                  | 47.0   | 8.0                       | 8.0   | 3.6                     | 7.0   | NW                      | NW    | -             | -     | 3.2                  | 4.0   | 29.0                  | 36.0   |
| 25      | 30.0                 | 35.0  | 41.0                 | 43.0   | 34.0                | 38.0   | 28.0              | 29.0  | 62.0                  | 50.0   | -                         | 6.0   | 3.1                     | 4.9   | NE                      | NE    | -             | -     | 3.4                  | 4.4   | 28.0                  | 37.0   |
| 26      | 25.0                 | 34.0  | 38.0                 | 39.0   | 32.0                | 38.0   | 28.0              | 30.0  | 73.0                  | 54.0   | -                         | -     | 3.2                     | 4.3   | NE                      | NE    | 5.6           | -     | 3.6                  | 4.8   | 27.0                  | 37.0   |
| 27      | 29.0                 | 33.0  | 39.0                 | 40.0   | 33.0                | 39.0   | 27.0              | 29.0  | 61.5                  | 46.0   | 4.0                       | 8.0   | 2.8                     | 7.4   | NE                      | NE    | -             | -     | 3.6                  | 4.8   | 28.5                  | 35.0   |
| 28      | 30.0                 | 34.0  | 39.0                 | 43.0   | 34.0                | 41.0   | 28.0              | 30.0  | 62.0                  | 43.0   | 2.0                       | 6.0   | 2.2                     | 8.8   | NE                      | NE    | -             | -     | 3.6                  | 5.4   | 29.0                  | 35.5   |
| 29      | 31.0                 | 35.0  | 41.0                 | 44.0   | 36.0                | 42.0   | 29.0              | 30.0  | 58.0                  | 40.0   | 2.0                       | 8.0   | 4.1                     | 5.5   | SW                      | NE    | -             | -     | 4.0                  | 4.8   | 29.0                  | 37.0   |
| 30      | 29.0                 | 32.0  | 43.0                 | 43.0   | 32.0                | 41.0   | 28.0              | 30.0  | 73.0                  | 43.0   | -                         | -     | 3.5                     | 4.9   | SW                      | NE    | -             | -     | 4.0                  | 4.8   | 27.5                  | 37.0   |
| 31      | 22.0                 |       | 42.0                 |        | 28.0                |        | 25.0              |       | 77.0                  |        | -                         |       | 4.1                     |       | SW                      |       | 13.2          |       | 3.8                  |       | 25.5                  |        |
| Total   | 846.0                | 993.0 | 1233.0               | 1300.0 | 1009.0              | 1201.0 | 819.0             | 879.0 | 1873.5                | 1348.0 | 66.0                      | 80.0  | 100.0                   | 185.0 |                         |       | 61.4          | 3.0   | 109.6                | 137.6 | 830.5                 | 1093.5 |
| Average | 27.3                 | 32.0  | 39.8                 | 41.9   | 32.5                | 38.7   | 26.4              | 28.4  | 60.4                  | 43.5   | 2.1                       | 2.6   | 3.2                     | 6.0   |                         |       |               |       |                      |       | 26.8                  | 35.3   |
|         | 29.7                 |       | 40.9                 |        | 35.6                |        | 27.4              |       | 52.0                  |        | 2.4                       |       | 4.6                     |       |                         |       | 64.4          |       | 247.2                |       | 31.0                  |        |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| June 2017 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|-----------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day       | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM       |                      | 34.0  |                      | 40.0   |                     | 35.0   |                   | 29.0  |                       | 68.0   |                           | 2.0   |                         | 5.8   |                         | SW    |               | ..    |                      | 4.5   |                       | 29.0   |
| 1         | 30.5                 | 32.5  | 38.5                 | 42.0   | 32.0                | 40.0   | 27.0              | 31.0  | 67.0                  | 51.0   | 2.0                       | -     | 4.0                     | 5.6   | SW                      | SW    | -             | -     | 3.2                  | 4.4   | 28.0                  | 36.5   |
| 2         | 31.0                 | 35.0  | 41.0                 | 43.0   | 35.0                | 36.0   | 31.0              | 31.0  | 74.5                  | 69.0   | -                         | -     | 2.2                     | 5.2   | SW                      | SW    | -             | -     | 3.5                  | 4.2   | 29.0                  | 35.0   |
| 3         | 31.0                 | 36.5  | 37.0                 | 45.0   | 36.0                | 41.0   | 30.0              | 33.0  | 63.0                  | 56.5   | 4.0                       | 4.0   | 3.3                     | 9.7   | SW                      | SW    | -             | -     | 4.0                  | 4.8   | 30.5                  | 32.5   |
| 4         | 34.0                 | 36.0  | 42.0                 | 45.5   | 36.0                | 38.0   | 31.0              | 31.0  | 69.0                  | 59.0   | -                         | 4.0   | 3.4                     | 7.3   | SW                      | SW    | -             | -     | 3.8                  | 5.2   | 30.0                  | 37.0   |
| 5         | 35.0                 | 35.0  | 42.5                 | 46.5   | 36.0                | 42.0   | 32.0              | 34.0  | 75.0                  | 57.0   | 2.0                       | 2.0   | 4.7                     | 5.3   | SW                      | SW    | -             | -     | 4.0                  | 5.4   | 31.5                  | 37.0   |
| 6         | 30.0                 | 33.0  | 39.0                 | 39.0   | 32.0                | 37.0   | 28.0              | 30.5  | 73.0                  | 61.5   | 2.0                       | 2.0   | 3.3                     | 4.7   | SW                      | SW    | -             | 0.4   | 3.5                  | 4.8   | 30.0                  | 32.5   |
| 7         | 30.0                 | 39.0  | 38.0                 | 41.0   | 34.5                | 40.0   | 29.5              | 33.0  | 68.0                  | 61.0   | -                         | 2.0   | 1.4                     | 3.2   | NW                      | NW    | -             | -     | 3.5                  | 5.2   | 30.0                  | 36.5   |
| 8         | 26.5                 | 31.0  | 40.0                 | 38.5   | 30.0                | 35.0   | 25.5              | 28.0  | 68.0                  | 57.0   | 2.0                       | -     | 1.2                     | 2.6   | NW                      | NW    | 6.8           | -     | 1.3                  | 4.8   | 28.0                  | 35.5   |
| 9         | 28.5                 | 36.0  | 36.0                 | 41.5   | 33.0                | 38.0   | 27.0              | 28.0  | 61.5                  | 45.0   | -                         | -     | 0.5                     | 2.9   | SW                      | SW    | -             | -     | 3.5                  | 5.0   | 30.0                  | 36.5   |
| 10        | 30.0                 | 31.5  | 39.0                 | 39.0   | 30.0                | 37.0   | 26.0              | 27.0  | 72.0                  | 44.0   | 2.0                       | -     | 2.1                     | 2.8   | SW                      | SW    | 0.6           | -     | 3.4                  | 5.1   | 30.0                  | 36.5   |
| 11        | 28.5                 | 26.0  | 30.0                 | 38.0   | 31.0                | 26.0   | 26.5              | 25.0  | 69.0                  | 92.0   | 2.0                       | 2.0   | 4.3                     | 5.0   | SW                      | SW    | -             | 27.2  | 3.0                  | 3.2   | 30.5                  | 30.0   |
| 12        | 26.0                 | 26.0  | 29.0                 | 35.0   | 29.0                | 31.0   | 26.0              | 26.0  | 78.0                  | 66.0   | 2.0                       | -     | 2.3                     | 6.2   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 27.5                  | 34.0   |
| 13        | 24.5                 | 28.0  | 32.0                 | 36.5   | 28.0                | 34.0   | 25.5              | 28.0  | 81.0                  | 62.0   | -                         | 2.0   | 1.9                     | 5.0   | SW                      | SW    | 5.4           | -     | 1.2                  | 4.2   | 25.0                  | 35.0   |
| 14        | 28.0                 | 31.0  | 35.0                 | 40.0   | 30.0                | 38.0   | 26.5              | 28.0  | 75.0                  | 45.0   | 2.0                       | 2.0   | 1.4                     | 4.4   | NW                      | NW    | -             | -     | 3.0                  | 4.8   | 30.0                  | 37.0   |
| 15        | 31.0                 | 31.0  | 38.5                 | 42.0   | 34.0                | 29.0   | 28.0              | 25.5  | 62.0                  | 74.0   | 2.0                       | 4.0   | 1.6                     | 4.5   | NW                      | NW    | -             | 0.6   | 3.5                  | 4.6   | 31.0                  | 35.0   |
| 16        | 27.0                 | 27.0  | 32.0                 | 37.0   | 30.0                | 35.5   | 26.0              | 28.5  | 72.0                  | 58.0   | 2.0                       | 2.0   | 3.5                     | 4.8   | NW                      | NW    | -             | -     | 3.0                  | 4.3   | 29.0                  | 34.0   |
| 17        | 28.0                 | 31.0  | 36.5                 | 41.0   | 32.0                | 39.0   | 26.0              | 30.0  | 61.0                  | 50.5   | 4.0                       | -     | 3.8                     | 4.7   | SW                      | SW    | -             | -     | 3.2                  | 4.6   | 30.5                  | 35.5   |
| 18        | 30.0                 | 32.0  | 41.0                 | 40.0   | 32.0                | 38.0   | 27.0              | 30.0  | 67.0                  | 54.0   | 4.0                       | -     | 2.4                     | 1.0   | SW                      | SW    | -             | -     | 3.4                  | 4.8   | 30.5                  | 36.0   |
| 19        | 29.5                 | 32.5  | 40.0                 | 40.0   | 31.0                | 38.0   | 27.0              | 30.0  | 72.5                  | 54.0   | -                         | -     | 5.0                     | 0.2   | SW                      | SW    | 29.2          | -     | 2.4                  | 5.0   | 32.0                  | 34.0   |
| 20        | 30.5                 | 35.0  | 42.0                 | 41.5   | 29.0                | 31.0   | 26.0              | 27.0  | 78.0                  | 72.5   | -                         | -     | 3.2                     | 3.8   | SW                      | SW    | -             | -     | 3.6                  | 5.0   | 32.0                  | 35.0   |
| 21        | 25.0                 | 27.5  | 40.0                 | 36.0   | 30.0                | 31.5   | 26.0              | 28.0  | 72.0                  | 82.0   | -                         | 2.0   | 1.7                     | 3.3   | SW                      | SW    | 6.4           | -     | 2.5                  | 4.8   | 30.0                  | 34.0   |
| 22        | 25.5                 | 28.5  | 32.5                 | 35.5   | 30.0                | 33.5   | 26.0              | 28.5  | 72.0                  | 68.0   | -                         | 2.0   | 1.6                     | 5.3   | NW                      | NW    | 0.4           | -     | 3.4                  | 4.5   | 30.0                  | 33.5   |
| 23        | 27.0                 | 24.0  | 35.0                 | 38.0   | 29.0                | 23.0   | 26.0              | 22.0  | 78.0                  | 91.0   | 2.0                       | 2.0   | 1.7                     | 4.9   | NW                      | NW    | -             | 61.8  | 3.2                  | 4.3   | 31.0                  | 30.5   |
| 24        | 23.5                 | 28.0  | 28.5                 | 38.0   | 28.0                | 28.0   | 25.5              | 26.0  | 81.0                  | 85.0   | 2.0                       | 4.0   | 1.2                     | 3.4   | NW                      | NW    | -             | -     | 2.5                  | 4.2   | 28.0                  | 34.5   |
| 25        | 24.0                 | 24.5  | 28.5                 | 33.5   | 27.5                | 37.5   | 25.0              | 27.5  | 81.0                  | 75.0   | -                         | 2.0   | 1.7                     | 3.1   | NW                      | NW    | 30.0          | -     | 1.5                  | 3.8   | 27.0                  | 32.5   |
| 26        | 23.5                 | 26.0  | 28.0                 | 32.5   | 27.0                | 30.0   | 25.0              | 26.0  | 84.0                  | 72.0   | -                         | -     | 1.0                     | 1.4   | SW                      | SW    | 3.0           | 3.6   | 2.0                  | 3.6   | 27.0                  | 32.5   |
| 27        | 26.0                 | 28.0  | 29.0                 | 31.5   | 28.0                | 30.0   | 26.0              | 27.5  | 85.0                  | 82.0   | 2.0                       | -     | 2.3                     | 1.6   | SW                      | SW    | -             | -     | 2.0                  | 3.5   | 27.5                  | 30.5   |
| 28        | 27.0                 | 27.0  | 30.0                 | 31.0   | 26.5                | 28.0   | 25.0              | 20.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 2.7                     | 4.3   | SW                      | SW    | 1.2           | -     | 1.7                  | 3.2   | 27.5                  | 30.0   |
| 29        | 26.0                 | 28.0  | 30.0                 | 32.0   | 28.0                | 30.0   | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 3.1                     | 3.0   | SW                      | SW    | 0.6           | -     | 1.0                  | 3.8   | 28.0                  | 32.0   |
| 30        | 26.0                 |       | 30.0                 |        | 28.0                |        | 25.5              |       | 81.0                  |        | 2.0                       |       | 3.3                     |       | SW                      |       | 1.2           |       | 1.7                  |       | 28.0                  |        |
| Total     | 843.0                | 920.5 | 1060.5               | 1160.0 | 922.5               | 1030.0 | 807.5             | 846.0 | 2217.5                | 1975.0 | 44.0                      | 44.0  | 75.8                    | 125.0 |                         |       | 84.8          | 93.6  | 83.5                 | 133.6 | 879.0                 | 1020.0 |
| Average   | 28.1                 | 30.7  | 35.4                 | 38.7   | 30.8                | 34.3   | 26.9              | 28.2  | 73.9                  | 65.8   | 1.5                       | 1.5   | 2.5                     | 4.2   |                         |       |               |       |                      |       | 29.3                  | 34.0   |
|           | 29.4                 |       | 37.0                 |        | 32.5                |        | 27.6              |       | 69.9                  |        | 1.5                       |       | 3.3                     |       |                         |       | 178.4 *       |       | 217.1                |       | 31.7                  |        |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| July 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-----------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day       | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM     |                      | 25.0  |                      | 32.0  |                     | -     |                   | -     |                       | -      |                           | -     |                         | -     |                         | SW    |               | -     |                      | -     |                       | -     |
| 1         | 25.5                 | 25.0  | 28.5                 | 30.0  | 29.0                | 27.0  | 25.5              | 25.0  | 74.0                  | 84.0   | 2.0                       | 2.0   | 3.2                     | 2.6   | SW                      | SW    | -             | 13.4  | 2.0                  | 2.4   | 28.0                  | 28.0  |
| 2         | 25.0                 | 25.0  | 28.0                 | 29.5  | 25.0                | 28.0  | 24.5              | 26.0  | 96.0                  | 85.0   | 2.0                       | 2.0   | 3.6                     | 6.2   | SW                      | SW    | 16.2          | -     | 1.0                  | 2.5   | 26.0                  | 30.0  |
| 3         | 25.0                 | 25.0  | 29.0                 | 29.0  | 25.0                | 28.0  | 24.5              | 26.5  | 96.0                  | 85.0   | 2.0                       | 2.0   | 3.6                     | 2.1   | SW                      | SW    | 40.2          | 6.4   | 1.2                  | 2.2   | 26.0                  | 28.5  |
| 4         | 26.0                 | 27.5  | 28.5                 | 30.0  | 27.0                | 27.5  | 25.0              | 25.5  | 84.0                  | 84.5   | 4.0                       | 2.0   | 3.2                     | 4.8   | SW                      | SW    | 4.6           | -     | 1.0                  | 3.5   | 25.0                  | 29.5  |
| 5         | 25.5                 | 26.5  | 30.0                 | 33.0  | 27.0                | 31.0  | 24.5              | 27.5  | 81.0                  | 75.5   | 2.0                       | 2.0   | 3.0                     | 5.8   | SW                      | SW    | -             | -     | 1.4                  | 4.0   | 26.5                  | 34.0  |
| 6         | 25.0                 | 28.0  | 32.0                 | 34.0  | 27.5                | 32.0  | 25.5              | 28.0  | 84.5                  | 73.0   | -                         | -     | 1.9                     | 3.9   | SW                      | SW    | 50.0          | -     | 1.0                  | 4.5   | 27.5                  | 35.0  |
| 7         | 27.0                 | 30.0  | 34.0                 | 36.0  | 30.5                | 33.0  | 27.0              | 29.0  | 75.5                  | 73.5   | -                         | -     | 1.9                     | 3.1   | SW                      | SW    | 3.6           | -     | 1.2                  | 4.5   | 26.0                  | 35.5  |
| 8         | 28.0                 | 28.0  | 34.0                 | 36.0  | 31.0                | 29.0  | 27.5              | 26.0  | 75.5                  | 78.0   | 4.0                       | -     | 1.3                     | 3.7   | SW                      | SW    | -             | 3.8   | 1.4                  | 4.2   | 27.0                  | 33.0  |
| 9         | 27.5                 | 30.0  | 32.0                 | 37.0  | 30.5                | 31.0  | 27.0              | 27.0  | 75.5                  | 72.5   | -                         | 2.0   | 1.9                     | 3.5   | SW                      | SW    | -             | -     | 1.2                  | 4.0   | 26.0                  | 32.0  |
| 10        | 25.0                 | 26.0  | 32.5                 | 29.0  | 27.0                | 26.0  | 25.0              | 25.0  | 84.0                  | 92.0   | -                         | 2.0   | 2.3                     | 3.3   | NW                      | SW    | 16.4          | 1.2   | 0.8                  | 2.2   | 27.0                  | 27.0  |
| 11        | 25.0                 | 25.0  | 27.0                 | 29.5  | 25.0                | 25.5  | 24.0              | 25.0  | 92.0                  | 96.0   | 2.0                       | -     | 1.7                     | 3.9   | SW                      | NW    | 7.6           | 6.0   | 0.6                  | 3.0   | 26.5                  | 27.0  |
| 12        | 24.0                 | 26.0  | 26.0                 | 31.5  | 26.0                | 30.0  | 24.5              | 26.0  | 88.0                  | 72.0   | -                         | 4.0   | 1.0                     | 3.1   | SW                      | SW    | 3.6           | 1.6   | 1.0                  | 3.2   | 26.0                  | 31.0  |
| 13        | 25.5                 | 27.0  | 31.0                 | 32.0  | 27.5                | 30.0  | 25.0              | 26.0  | 81.0                  | 72.0   | 2.0                       | 2.0   | 2.5                     | 3.4   | SW                      | SW    | -             | -     | 2.0                  | 3.5   | 27.5                  | 33.0  |
| 14        | 26.0                 | 27.0  | 31.0                 | 32.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 1.8                     | 3.2   | SW                      | NW    | -             | 2.2   | 2.0                  | 3.2   | 27.0                  | 32.5  |
| 15        | 26.0                 | 28.0  | 28.0                 | 33.0  | 27.5                | 30.0  | 25.5              | 27.0  | 84.5                  | 78.0   | -                         | -     | 1.5                     | 2.2   | SW                      | SW    | -             | -     | 2.2                  | 3.5   | 27.5                  | 33.0  |
| 16        | 26.0                 | 26.5  | 31.0                 | 31.0  | 26.0                | 30.0  | 25.5              | 27.0  | 96.0                  | 78.0   | -                         | 2.0   | 2.1                     | 3.4   | SW                      | SW    | 2.2           | 1.2   | 1.2                  | 3.2   | 27.0                  | 32.0  |
| 17        | 25.0                 | 26.5  | 30.0                 | 33.5  | 27.0                | 32.0  | 26.0              | 28.0  | 92.0                  | 73.0   | -                         | -     | 0.9                     | 1.8   | SE                      | SW    | 18.0          | -     | 1.0                  | 3.0   | 27.0                  | 32.0  |
| 18        | 26.0                 | 30.0  | 33.0                 | 34.5  | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | -                         | 2.0   | 0.9                     | 3.0   | SW                      | SW    | 10.8          | -     | 1.0                  | 3.2   | 28.5                  | 32.5  |
| 19        | 26.0                 | 29.0  | 33.0                 | 33.0  | 28.0                | 28.0  | 27.0              | 27.5  | 94.0                  | 96.0   | -                         | -     | 0.4                     | 1.2   | NW                      | SW    | 1.2           | 8.0   | 1.2                  | 3.0   | 28.0                  | 31.0  |
| 20        | 26.0                 | 28.0  | 33.0                 | 29.5  | 27.0                | 28.5  | 26.0              | 26.0  | 92.0                  | 81.0   | -                         | 2.0   | 2.6                     | 4.5   | SSW                     | SW    | 25.4          | -     | 1.2                  | 3.3   | 27.5                  | 30.5  |
| 21        | 24.5                 | 26.0  | 29.5                 | 32.0  | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 1.9                     | 3.9   | SW                      | SW    | 20.0          | -     | 1.3                  | 3.4   | 27.0                  | 31.5  |
| 22        | 26.0                 | 29.0  | 31.0                 | 31.0  | 29.0                | 29.5  | 26.5              | 27.0  | 81.0                  | 81.5   | -                         | -     | 0.7                     | 3.9   | SW                      | SW    | -             | -     | 1.4                  | 3.4   | 28.0                  | 32.5  |
| 23        | 25.5                 | 29.5  | 30.0                 | 32.0  | 26.5                | 28.5  | 25.0              | 26.5  | 88.0                  | 85.0   | 2.0                       | 2.0   | 1.8                     | 2.2   | SE                      | SW    | 2.2           | -     | 1.2                  | 3.2   | 28.0                  | 31.5  |
| 24        | 24.0                 | 25.0  | 29.0                 | 30.0  | 25.0                | 28.0  | 24.0              | 25.5  | 96.0                  | 81.0   | 4.0                       | 2.0   | 2.9                     | 2.7   | SW                      | SW    | 12.0          | -     | 1.0                  | 3.2   | 27.0                  | 28.5  |
| 25        | 26.0                 | 26.0  | 29.0                 | 30.5  | 26.5                | 29.5  | 25.0              | 27.0  | 88.0                  | 81.5   | 2.0                       | -     | 2.5                     | 3.3   | SW                      | SW    | -             | -     | 1.0                  | 3.2   | 27.5                  | 30.0  |
| 26        | 25.0                 | 25.0  | 30.0                 | 27.0  | 26.0                | 26.0  | 24.0              | 24.0  | 84.0                  | 84.0   | 2.0                       | -     | 2.7                     | 5.8   | SW                      | SW    | -             | -     | 1.2                  | 2.8   | 28.5                  | 28.0  |
| 27        | 26.0                 | 26.5  | 27.0                 | 30.5  | 25.5                | 28.5  | 24.0              | 25.0  | 88.0                  | 74.0   | -                         | 4.0   | 5.8                     | 5.5   | SW                      | SW    | 1.2           | -     | 1.2                  | 3.3   | 27.5                  | 30.0  |
| 28        | 26.0                 | 27.5  | 29.0                 | 32.5  | 27.5                | 29.0  | 25.0              | 26.0  | 81.0                  | 78.0   | 4.0                       | -     | 1.4                     | 4.1   | NW                      | SW    | -             | -     | 1.4                  | 3.4   | 28.0                  | 32.0  |
| 29        | 26.0                 | 29.0  | 30.0                 | 33.0  | 29.0                | 30.0  | 26.0              | 26.0  | 78.0                  | 86.0   | -                         | 4.0   | 0.9                     | 3.6   | SW                      | SW    | -             | -     | 1.5                  | 3.5   | 29.0                  | 32.5  |
| 30        | 26.0                 | 29.0  | 32.0                 | 33.0  | 28.5                | 30.0  | 26.0              | 27.0  | 81.0                  | 78.0   | -                         | -     | 0.9                     | 1.4   | SW                      | SW    | -             | -     | 1.5                  | 3.6   | 30.0                  | 32.5  |
| 31        | 29.0                 |       | 31.0                 |       | 28.0                |       | 25.0              |       | 92.0                  |        | -                         |       | 0.5                     |       | SW                      |       | 7.6           |       | 1.4                  |       | 29.5                  |       |
| Total     | 799.0                | 841.5 | 939.0                | 986.5 | 847.0               | 872.5 | 788.0             | 792.0 | 2671.5                | 2426.0 | 36.0                      | 40.0  | 63.3                    | 105.1 |                         |       | 242.8         | 43.8  | 39.7                 | 99.1  | 847.5                 | 936.0 |
| Average   | 25.8                 | 27.1  | 30.3                 | 31.8  | 27.3                | 28.1  | 25.4              | 25.5  | 86.2                  | 78.3   | 1.2                       | 1.3   | 2.0                     | 3.4   |                         |       |               |       |                      |       | 27.3                  | 30.2  |
|           | 26.5                 |       | 31.1                 |       | 27.7                |       | 25.5              |       | 82.2                  |        | 1.2                       |       | 2.7                     |       |                         |       | 286.6         |       | 138.8                |       | 28.8                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| August 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|             | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day         | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM       |                      | 29.0  |                      | 33.0   |                     | 26.0  |                   | 24.0  |                       | 78.0   |                           | -     |                         | -     |                         | SW    |               | -     |                      | -     |                       | 30.0  |
| 1           | 25.5                 | 26.0  | 28.5                 | 33.5   | 29.5                | 30.0  | 27.0              | 27.5  | 85.0                  | 78.0   | -                         | -     | 0.2                     | 3.8   | SW                      | SW    | 2.0           | -     | 1.1                  | 3.1   | 28.0                  | 32.0  |
| 2           | 25.0                 | 26.0  | 30.5                 | 34.0   | 28.5                | 30.5  | 27.0              | 27.5  | 88.5                  | 78.0   | -                         | 2.0   | 0.9                     | 3.5   | SW                      | SW    | 9.6           | -     | 1.0                  | 3.2   | 28.5                  | 32.5  |
| 3           | 27.0                 | 27.0  | 31.5                 | 34.0   | 29.0                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.8                     | 4.3   | SW                      | SW    | 2.4           | 1.4   | 1.0                  | 2.8   | 28.5                  | 31.0  |
| 4           | 26.0                 | 26.0  | 30.0                 | 34.0   | 28.5                | 31.0  | 26.0              | 27.0  | 81.0                  | 72.5   | -                         | 2.0   | 0.4                     | 3.7   | NW                      | SW    | 1.0           | -     | 1.0                  | 3.4   | 28.5                  | 32.0  |
| 5           | 25.0                 | 25.0  | 32.0                 | 33.5   | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 1.0                     | 2.2   | SW                      | SW    | 6.4           | 3.0   | 1.2                  | 3.0   | 27.5                  | 28.5  |
| 6           | 26.0                 | 26.5  | 28.0                 | 32.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.4                     | 2.2   | SW                      | SW    | 0.6           | -     | 1.0                  | 3.2   | 26.5                  | 30.5  |
| 7           | 26.0                 | 26.5  | 30.0                 | 31.0   | 26.0                | 29.0  | 25.5              | 27.0  | 96.0                  | 85.0   | 2.0                       | -     | 2.0                     | 1.2   | SW                      | SW    | 0.8           | 10.8  | 1.1                  | 3.0   | 26.0                  | 30.0  |
| 8           | 26.0                 | 26.5  | 30.0                 | 31.5   | 27.5                | 28.0  | 25.0              | 27.0  | 81.0                  | 92.0   | -                         | -     | 0.4                     | 2.3   | SW                      | SW    | -             | -     | 1.1                  | 3.2   | 27.0                  | 30.5  |
| 9           | 26.0                 | 27.0  | 28.5                 | 32.0   | 26.5                | 30.5  | 25.5              | 27.0  | 92.0                  | 75.0   | -                         | 2.0   | 1.6                     | 3.5   | SW                      | SW    | 0.8           | -     | 1.0                  | 3.4   | 27.0                  | 31.0  |
| 10          | 26.0                 | 26.0  | 31.5                 | 32.0   | 26.0                | 29.0  | 24.0              | 26.0  | 84.0                  | 78.0   | 2.0                       | -     | 3.4                     | 3.7   | SW                      | SW    | -             | -     | 1.2                  | 3.2   | 28.0                  | 30.0  |
| 11          | 24.5                 | 27.0  | 30.0                 | 34.0   | 28.0                | 31.0  | 25.5              | 27.0  | 81.0                  | 72.5   | 4.0                       | -     | 1.2                     | 1.4   | SW                      | SW    | 7.6           | -     | 1.1                  | 3.5   | 27.0                  | 33.5  |
| 12          | 26.0                 | 27.0  | 32.0                 | 33.0   | 27.5                | 28.0  | 25.5              | 26.0  | 84.0                  | 72.5   | -                         | 2.0   | 1.8                     | 3.8   | SW                      | SW    | -             | 2.2   | 1.3                  | 3.2   | 27.5                  | 32.0  |
| 13          | 26.0                 | 27.0  | 29.0                 | 32.0   | 29.0                | 29.5  | 26.5              | 27.0  | 81.0                  | 81.5   | -                         | -     | 1.3                     | 2.8   | SW                      | SW    | -             | 0.4   | 1.2                  | 3.4   | 27.5                  | 31.0  |
| 14          | 26.0                 | 26.0  | 29.5                 | 34.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -                         | -     | 1.7                     | 3.5   | SW                      | NW    | -             | -     | 1.3                  | 3.5   | 28.0                  | 32.5  |
| 15          | 26.5                 | 26.0  | 29.5                 | 35.0   | 28.0                | 32.0  | 26.0              | 27.0  | 85.0                  | 67.0   | -                         | 2.0   | 1.6                     | 2.5   | SE                      | SW    | -             | -     | 1.3                  | 3.6   | 27.5                  | 34.0  |
| 16          | 26.5                 | 27.0  | 32.0                 | 34.0   | 28.0                | 31.5  | 26.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 1.5                     | 2.7   | W                       | SW    | -             | -     | 1.5                  | 2.5   | 27.5                  | 33.0  |
| 17          | 26.0                 | 27.5  | 32.0                 | 35.0   | 26.5                | 27.0  | 26.0              | 27.0  | 96.0                  | 92.0   | 2.0                       | 2.0   | 1.1                     | 1.8   | SE                      | SE    | 3.0           | 4.6   | 1.3                  | 2.6   | 27.0                  | 28.5  |
| 18          | 25.0                 | 25.5  | 27.0                 | 31.0   | 26.0                | 29.0  | 25.0              | 27.5  | 92.0                  | 85.0   | -                         | -     | 0.9                     | 0.8   | SE                      | SE    | -             | -     | 1.1                  | 3.0   | 26.0                  | 30.5  |
| 19          | 25.0                 | 26.0  | 30.0                 | 31.0   | 28.0                | 28.0  | 26.0              | 27.0  | 85.0                  | 92.0   | 4.0                       | -     | 1.6                     | 2.9   | SE                      | NW    | 15.4          | 11.6  | 1.0                  | 3.0   | 27.0                  | 30.0  |
| 20          | 25.5                 | 25.5  | 28.5                 | 32.0   | 27.0                | 28.5  | 25.5              | 27.0  | 88.0                  | 88.5   | 2.0                       | 2.0   | 1.9                     | 2.2   | NE                      | NW    | -             | -     | 1.0                  | 3.2   | 26.5                  | 31.0  |
| 21          | 25.5                 | 26.0  | 31.0                 | 32.5   | 27.0                | 28.0  | 25.0              | 26.0  | 88.0                  | 85.0   | -                         | -     | 3.3                     | 0.6   | NW                      | SE    | 12.0          | -     | 1.0                  | 3.0   | 28.0                  | 32.0  |
| 22          | 26.0                 | 26.0  | 29.0                 | 32.5   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -                         | 2.0   | 0.3                     | 1.5   | SW                      | SW    | -             | -     | 1.2                  | 3.3   | 27.5                  | 32.0  |
| 23          | 26.0                 | 26.0  | 32.0                 | 35.0   | 29.5                | 32.0  | 27.0              | 28.0  | 82.0                  | 73.0   | -                         | -     | 0.2                     | 1.8   | SE                      | SW    | -             | -     | 1.4                  | 3.4   | 28.5                  | 35.0  |
| 24          | 24.0                 | 26.0  | 33.0                 | 34.0   | 26.5                | 28.0  | 25.5              | 26.0  | 92.0                  | 92.0   | 2.0                       | -     | 1.1                     | 2.3   | SW                      | SE    | 12.0          | 9.8   | 1.0                  | 3.2   | 27.0                  | 33.0  |
| 25          | 25.0                 | 25.0  | 28.0                 | 34.5   | 27.5                | 30.0  | 26.0              | 27.5  | 88.0                  | 82.0   | -                         | -     | 1.4                     | 0.9   | SE                      | SW    | -             | -     | 1.2                  | 3.4   | 27.5                  | 33.5  |
| 26          | 25.0                 | 26.5  | 31.0                 | 32.5   | 29.0                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.2                     | 0.7   | NW                      | NE    | 2.0           | -     | 1.2                  | 3.3   | 28.0                  | 32.0  |
| 27          | 26.0                 | 26.0  | 29.5                 | 32.0   | 29.5                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 0.7   | NE                      | NW    | -             | -     | 1.3                  | 3.2   | 28.5                  | 32.0  |
| 28          | 26.0                 | 26.5  | 30.0                 | 31.5   | 28.0                | 28.5  | 26.5              | 27.0  | 88.0                  | 88.5   | -                         | 2.0   | 0.5                     | 1.2   | SE                      | SSE   | 2.4           | 1.8   | 1.2                  | 3.0   | 27.5                  | 31.0  |
| 29          | 25.5                 | 26.0  | 30.5                 | 32.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | -     | 0.7                     | 1.1   | NNE                     | SW    | 3.6           | -     | 1.0                  | 3.2   | 28.0                  | 31.0  |
| 30          | 25.5                 | 26.0  | 32.0                 | 33.5   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 0.6   | SW                      | SE    | 0.6           | -     | 1.2                  | 3.0   | 27.5                  | 35.0  |
| 31          | 26.0                 |       | 32.5                 |        | 29.5                |       | 27.0              |       | 81.5                  |        | -                         |       | 0.1                     |       | WSW                     |       | -             |       | 1.2                  |       | 28.0                  |       |
| Total       | 796.0                | 816.0 | 938.5                | 1021.5 | 856.0               | 905.0 | 802.0             | 831.0 | 2695.0                | 2544.0 | 20.0                      | 18.0  | 33.8                    | 66.2  |                         |       | 82.2          | 45.6  | 35.7                 | 95.0  | 853.0                 | 980.5 |
| Average     | 25.7                 | 26.3  | 30.3                 | 33.0   | 27.6                | 29.2  | 25.9              | 26.8  | 86.9                  | 82.1   | 0.6                       | 0.6   | 1.1                     | 2.1   |                         |       |               |       |                      |       | 27.5                  | 31.6  |
|             | 26.0                 |       | 31.6                 |        | 28.4                |       | 26.3              |       | 84.5                  |        | 0.6                       |       | 1.6                     |       |                         |       | 127.8         |       | 130.7                |       | 29.6                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| September 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|----------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|                | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day            | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM          |                      | 27.0  |                      | 33.5   |                     | 30.5  |                   | 27.5  |                       | 84.0   |                           | -     |                         | 0.4   |                         | NNW   |               | 13.8  |                      | 3.0   |                       | 30.5  |
| 1              | 26.0                 | 26.5  | 30.0                 | 34.0   | 29.0                | 29.0  | 26.5              | 26.5  | 81.0                  | 81.0   | -                         | 2.0   | 0.5                     | 1.8   | SSW                     | SSW   | -             | -     | 1.5                  | 3.5   | 28.0                  | 33.0  |
| 2              | 26.5                 | 27.0  | 30.5                 | 32.5   | 28.5                | 29.5  | 26.0              | 27.0  | 81.0                  | 81.5   | -                         | -     | 0.4                     | 0.9   | SSW                     | SSW   | -             | -     | 1.5                  | 3.6   | 28.5                  | 31.0  |
| 3              | 25.0                 | 26.0  | 29.0                 | 36.0   | 28.0                | 31.5  | 26.0              | 27.0  | 85.0                  | 69.5   | -                         | -     | 0.4                     | 2.3   | SSW                     | SSW   | -             | -     | 1.6                  | 3.8   | 27.0                  | 35.0  |
| 4              | 25.5                 | 26.0  | 33.0                 | 35.0   | 29.0                | 31.0  | 26.5              | 27.0  | 81.0                  | 72.5   | -                         | 2.0   | 0.4                     | 1.8   | SSW                     | SSW   | -             | -     | 1.8                  | 3.8   | 28.5                  | 34.5  |
| 5              | 26.0                 | 27.0  | 34.0                 | 35.5   | 29.0                | 32.5  | 27.0              | 28.5  | 85.0                  | 73.0   | -                         | -     | 0.4                     | 1.6   | SSW                     | SSW   | -             | -     | 1.8                  | 4.2   | 28.5                  | 34.5  |
| 6              | 25.0                 | 26.0  | 34.0                 | 36.0   | 30.0                | 31.0  | 27.0              | 28.0  | 78.0                  | 78.5   | -                         | -     | 0.1                     | 1.0   | SSW                     | SSW   | -             | -     | 2.0                  | 4.2   | 29.0                  | 35.0  |
| 7              | 26.0                 | 28.5  | 33.0                 | 34.0   | 29.0                | 31.5  | 27.0              | 28.5  | 85.0                  | 78.5   | -                         | -     | 0.3                     | 1.2   | SSW                     | SSW   | -             | -     | 1.9                  | 4.0   | 28.5                  | 33.0  |
| 8              | 27.0                 | 26.0  | 32.0                 | 33.0   | 31.5                | 27.0  | 28.0              | 26.0  | 75.5                  | 92.0   | -                         | -     | 0.1                     | 1.5   | SSW                     | SSW   | -             | -     | 2.2                  | 3.8   | 29.0                  | 32.5  |
| 9              | 26.0                 | 26.0  | 29.0                 | 35.0   | 28.0                | 27.5  | 26.0              | 25.0  | 85.0                  | 81.0   | -                         | -     | 0.3                     | 1.2   | SSW                     | SSW   | -             | -     | 1.5                  | 3.6   | 28.0                  | 32.5  |
| 10             | 26.0                 | 25.0  | 34.5                 | 34.0   | 29.0                | 31.0  | 26.0              | 28.0  | 78.0                  | 78.5   | -                         | -     | 0.4                     | 0.9   | SSW                     | SSW   | 16.6          | -     | 1.3                  | 3.8   | 27.0                  | 31.0  |
| 11             | 27.0                 | 27.0  | 32.0                 | 34.0   | 30.0                | 27.0  | 28.0              | 25.0  | 85.0                  | 84.0   | -                         | -     | 0.0                     | 1.1   | SSW                     | SSW   | -             | -     | 1.3                  | 3.6   | 29.5                  | 31.0  |
| 12             | 26.5                 | 26.0  | 28.0                 | 33.0   | 27.5                | 30.0  | 26.0              | 27.5  | 88.0                  | 82.0   | -                         | -     | 0.2                     | 2.0   | SSW                     | SSW   | -             | -     | 1.1                  | 3.5   | 27.5                  | 32.0  |
| 13             | 25.0                 | 25.5  | 30.5                 | 32.0   | 28.5                | 30.0  | 26.0              | 26.0  | 81.0                  | 72.0   | -                         | 2.0   | 0.8                     | 2.3   | SSW                     | SSW   | -             | -     | 1.0                  | 3.0   | 28.0                  | 31.0  |
| 14             | 25.0                 | 27.0  | 30.5                 | 33.0   | 28.5                | 30.0  | 25.5              | 26.0  | 77.5                  | 72.0   | -                         | 4.0   | 0.8                     | 2.8   | SSW                     | SSW   | -             | -     | 1.2                  | 3.0   | 28.0                  | 32.5  |
| 15             | 25.0                 | 28.0  | 33.5                 | 35.0   | 28.5                | 31.0  | 26.0              | 27.0  | 81.0                  | 72.5   | -                         | -     | 0.4                     | 1.6   | SSW                     | SSW   | -             | -     | 1.3                  | 3.2   | 29.0                  | 33.0  |
| 16             | 25.5                 | 27.5  | 32.5                 | 33.0   | 30.0                | 30.5  | 27.5              | 28.0  | 82.0                  | 82.0   | -                         | -     | 0.2                     | 1.4   | SSW                     | SSW   | -             | 23.4  | 1.2                  | 3.2   | 29.0                  | 32.0  |
| 17             | 26.0                 | 28.0  | 32.5                 | 34.0   | 29.0                | 24.0  | 27.0              | 23.0  | 85.0                  | 91.0   | -                         | -     | 0.1                     | 1.3   | SSW                     | SSW   | -             | 1.8   | 1.2                  | 3.0   | 28.5                  | 31.0  |
| 18             | 25.0                 | 26.0  | 33.0                 | 33.5   | 27.0                | 26.0  | 25.5              | 25.0  | 88.0                  | 92.0   | -                         | 2.0   | 0.4                     | 2.2   | SSW                     | SSW   | -             | 6.2   | 1.0                  | 3.2   | 28.0                  | 31.0  |
| 19             | 24.0                 | 26.0  | 28.0                 | 29.0   | 26.0                | 25.0  | 25.0              | 24.0  | 92.0                  | 92.0   | -                         | -     | 0.7                     | 1.0   | SSW                     | SSW   | 10.2          | -     | 1.0                  | 2.4   | 26.0                  | 27.0  |
| 20             | 23.0                 | 24.0  | 26.0                 | 27.0   | 24.0                | 25.0  | 23.5              | 24.0  | 96.0                  | 92.0   | -                         | 2.0   | 1.0                     | 1.7   | SSW                     | SSW   | 127.8         | 4.0   | 0.6                  | 1.8   | 24.5                  | 25.0  |
| 21             | 24.0                 | 25.0  | 27.0                 | 32.0   | 26.0                | 26.5  | 25.0              | 26.0  | 92.0                  | 96.0   | -                         | -     | 1.5                     | 0.9   | SSW                     | SSW   | 5.6           | -     | 0.6                  | 2.0   | 25.0                  | 29.0  |
| 22             | 24.0                 | 25.0  | 28.0                 | 32.5   | 28.0                | 28.5  | 26.0              | 26.0  | 85.0                  | 81.0   | -                         | -     | 0.1                     | 1.3   | SSW                     | SSW   | -             | -     | 1.0                  | 3.0   | 27.0                  | 31.0  |
| 23             | 25.0                 | 25.5  | 32.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -                         | -     | 0.2                     | 1.2   | SSW                     | SSW   | -             | -     | 1.1                  | 3.2   | 28.0                  | 32.0  |
| 24             | 25.0                 | 28.0  | 34.0                 | 35.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.5   | -                         | -     | 0.1                     | 1.5   | SSW                     | SSW   | -             | -     | 1.2                  | 3.2   | 29.0                  | 34.0  |
| 25             | 26.0                 | 26.0  | 30.0                 | 34.0   | 28.0                | 31.0  | 26.0              | 28.5  | 85.0                  | 82.0   | -                         | -     | 0.1                     | 1.3   | SSW                     | SSW   | -             | -     | 1.1                  | 3.3   | 28.5                  | 33.5  |
| 26             | 26.0                 | 26.0  | 32.5                 | 34.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 72.5   | -                         | -     | 0.1                     | 1.5   | SSW                     | SSW   | -             | -     | 1.2                  | 3.4   | 29.0                  | 33.5  |
| 27             | 27.0                 | 27.0  | 33.0                 | 35.0   | 31.0                | 30.0  | 28.0              | 26.0  | 78.5                  | 72.0   | -                         | -     | 0.0                     | 1.2   | SSW                     | SSW   | -             | -     | 1.2                  | 3.2   | 30.0                  | 33.5  |
| 28             | 26.0                 | 26.5  | 32.0                 | 34.0   | 29.0                | 26.5  | 27.0              | 24.5  | 85.0                  | 84.0   | -                         | -     | 0.2                     | 1.1   | SSW                     | SSW   | -             | 21.6  | 1.0                  | 3.0   | 28.0                  | 30.0  |
| 29             | 24.5                 | 25.0  | 28.5                 | 33.0   | 27.0                | 24.0  | 25.0              | 23.0  | 84.0                  | 91.0   | -                         | -     | 0.1                     | 1.7   | SSW                     | SSW   | 1.2           | -     | 0.8                  | 2.6   | 27.0                  | 28.0  |
| 30             | 24.0                 |       | 27.0                 |        | 26.5                |       | 25.0              |       | 88.0                  |        | -                         |       | 0.2                     |       | SSW                     |       | 0.6           |       | 0.8                  |       | 25.0                  |       |
| Total          | 762.5                | 790.0 | 929.5                | 1005.5 | 848.5               | 869.0 | 785.0             | 790.5 | 2521.5                | 2436.5 | -                         | 14.0  | 10.5                    | 43.7  |                         |       | 162.0         | 70.8  | 38.0                 | 98.1  | 836.5                 | 952.5 |
| Average        | 25.4                 | 26.3  | 31.0                 | 33.5   | 28.3                | 29.0  | 26.2              | 26.4  | 84.1                  | 81.2   | -                         | 0.5   | 0.3                     | 1.5   |                         |       |               |       |                      |       | 27.9                  | 31.8  |
|                | 25.9                 |       | 32.3                 |        | 28.6                |       | 26.3              |       | 82.6                  |        | 0.2                       |       | 0.9                     |       |                         |       | 232.8         |       | 136.1                |       | 29.8                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| October 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM        |                      | -     |                      | -      |                     | -     |                   | -     |                       | -      |                           | -     |                         | -     |                         | SSW   |               | ..    |                      | -     |                       | -     |
| 1            | 25.0                 | 26.5  | 32.0                 | 34.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.2                     | 0.8   | SSW                     | SSW   | -             | -     | 1.0                  | 3.0   | 28.0                  | 29.0  |
| 2            | 24.0                 | 25.0  | 31.5                 | 32.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.4                     | 0.6   | SSW                     | SSW   | 23.2          | -     | 0.8                  | 2.8   | 26.5                  | 28.0  |
| 3            | 25.0                 | 26.0  | 31.0                 | 32.5   | 27.0                | 30.5  | 25.0              | 27.0  | 84.0                  | 75.5   | -                         | -     | 0.1                     | 0.8   | SSW                     | SSW   | -             | -     | 1.0                  | 3.0   | 27.0                  | 28.5  |
| 4            | 25.0                 | 26.0  | 31.5                 | 33.0   | 27.5                | 28.5  | 26.0              | 26.0  | 88.0                  | 81.0   | -                         | -     | 0.1                     | 0.9   | SSW                     | SSW   | -             | -     | 1.0                  | 3.2   | 27.5                  | 29.0  |
| 5            | 25.0                 | 25.0  | 29.5                 | 33.0   | 26.0                | 29.0  | 25.0              | 26.5  | 81.0                  | 92.0   | -                         | -     | 0.3                     | 1.4   | SSE                     | SSE   | -             | 10.8  | 1.0                  | 2.8   | 27.0                  | 29.0  |
| 6            | 24.0                 | 25.0  | 28.0                 | 33.5   | 27.0                | 28.0  | 25.0              | 26.0  | 85.0                  | 84.0   | -                         | -     | 0.2                     | 1.2   | SSW                     | SSW   | -             | -     | 1.1                  | 3.0   | 26.5                  | 30.0  |
| 7            | 25.0                 | 25.0  | 27.5                 | 32.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.3                     | 1.5   | SSW                     | SSW   | 1.0           | -     | 1.0                  | 3.0   | 26.5                  | 28.0  |
| 8            | 25.0                 | 25.0  | 30.5                 | 31.0   | 25.5                | 27.0  | 24.0              | 25.0  | 96.0                  | 84.0   | -                         | -     | 0.1                     | 0.6   | SSW                     | SSW   | -             | 13.0  | 1.0                  | 2.6   | 27.0                  | 27.5  |
| 9            | 24.0                 | 24.0  | 28.0                 | 34.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.7   | SSW                     | SSW   | -             | -     | 0.9                  | 2.8   | 26.5                  | 31.5  |
| 10           | 25.0                 | 25.0  | 30.0                 | 34.0   | 27.0                | 29.0  | 25.5              | 26.5  | 88.0                  | 89.0   | -                         | -     | 0.1                     | 1.2   | SSW                     | SSW   | -             | -     | 0.8                  | 3.0   | 27.0                  | 33.0  |
| 11           | 25.0                 | 25.0  | 31.0                 | 33.5   | 28.0                | 29.5  | 26.0              | 26.0  | 85.0                  | 74.5   | -                         | -     | 0.3                     | 1.4   | SSW                     | SSW   | -             | -     | 1.0                  | 3.0   | 27.5                  | 33.0  |
| 12           | 25.0                 | 25.5  | 30.5                 | 33.5   | 28.0                | 30.5  | 25.5              | 27.0  | 81.0                  | 75.5   | -                         | -     | 0.1                     | 1.5   | SSW                     | SSW   | -             | -     | 1.0                  | 3.2   | 27.0                  | 31.5  |
| 13           | 26.0                 | 26.0  | 32.0                 | 35.0   | 29.0                | 31.0  | 26.0              | 28.0  | 78.0                  | 78.5   | -                         | -     | 0.1                     | 1.5   | SSW                     | SSW   | -             | -     | 1.1                  | 3.2   | 28.0                  | 33.0  |
| 14           | 27.0                 | 28.5  | 32.0                 | 35.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 1.2   | SSW                     | SSW   | -             | -     | 1.3                  | 3.2   | 28.5                  | 33.5  |
| 15           | 26.0                 | 28.0  | 31.0                 | 36.0   | 28.0                | 31.0  | 27.0              | 27.0  | 92.0                  | 72.5   | -                         | -     | 0.3                     | 0.7   | SSW                     | SSE   | -             | -     | 1.3                  | 3.4   | 27.5                  | 34.0  |
| 16           | 22.5                 | 23.0  | 32.5                 | 37.0   | 28.5                | 31.0  | 27.0              | 27.0  | 88.5                  | 72.5   | -                         | -     | 0.1                     | 1.3   | SSW                     | SSW   | -             | -     | 1.2                  | 3.6   | 26.0                  | 33.0  |
| 17           | 21.0                 | 23.0  | 33.0                 | 36.0   | 25.0                | 30.0  | 23.5              | 25.0  | 88.0                  | 65.0   | -                         | -     | 0.1                     | 1.7   | SSW                     | SSW   | -             | -     | 1.0                  | 3.6   | 25.0                  | 32.5  |
| 18           | 19.5                 | 20.0  | 32.0                 | 33.0   | 25.0                | 28.0  | 22.0              | 25.0  | 76.0                  | 77.0   | -                         | -     | 0.1                     | 1.3   | SSE                     | SSE   | -             | -     | 1.0                  | 3.4   | 24.0                  | 31.0  |
| 19           | 23.0                 | 24.0  | 30.0                 | 32.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.2                     | 1.9   | SSE                     | SSE   | -             | -     | 1.0                  | 3.4   | 26.0                  | 30.0  |
| 20           | 25.0                 | 26.0  | 29.0                 | 33.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -                         | -     | 0.1                     | 2.0   | SSE                     | SSE   | -             | -     | 1.0                  | 3.4   | 26.0                  | 30.5  |
| 21           | 23.5                 | 24.0  | 30.0                 | 33.0   | 27.0                | 30.0  | 25.0              | 26.5  | 84.0                  | 75.0   | -                         | -     | 0.3                     | 2.4   | SSE                     | SSE   | -             | -     | 1.2                  | 3.2   | 27.5                  | 31.5  |
| 22           | 24.0                 | 25.0  | 31.0                 | 35.5   | 25.5                | 29.0  | 24.0              | 26.0  | 88.0                  | 78.0   | -                         | -     | 0.2                     | 0.3   | SW                      | SSW   | -             | -     | 1.0                  | 3.2   | 26.5                  | 32.0  |
| 23           | 23.0                 | 24.0  | 31.0                 | 36.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -                         | -     | 0.1                     | 1.1   | SSW                     | SSW   | -             | -     | 1.0                  | 3.2   | 26.5                  | 32.5  |
| 24           | 23.5                 | 24.0  | 32.0                 | 35.0   | 28.0                | 30.5  | 25.0              | 25.5  | 77.0                  | 65.0   | -                         | -     | 0.1                     | 1.0   | SSW                     | SSW   | -             | -     | 1.2                  | 3.3   | 27.0                  | 32.0  |
| 25           | 20.0                 | 20.0  | 32.0                 | 36.0   | 25.0                | 29.0  | 23.0              | 25.0  | 84.0                  | 71.0   | -                         | -     | 0.2                     | 0.6   | SSW                     | SSW   | -             | -     | 1.0                  | 3.2   | 24.0                  | 31.0  |
| 26           | 20.0                 | 20.5  | 31.0                 | 35.0   | 26.0                | 28.0  | 23.5              | 24.0  | 80.0                  | 70.0   | -                         | -     | 0.1                     | 0.8   | SSW                     | SSW   | -             | -     | 1.0                  | 3.2   | 24.0                  | 30.5  |
| 27           | 21.0                 | 22.0  | 30.0                 | 33.0   | 26.0                | 29.0  | 23.0              | 25.0  | 76.0                  | 71.0   | -                         | -     | 0.1                     | 0.5   | SSW                     | SSW   | -             | -     | 1.0                  | 3.4   | 23.5                  | 31.0  |
| 28           | 21.0                 | 21.0  | 31.0                 | 33.5   | 24.0                | 27.0  | 23.0              | 24.0  | 91.0                  | 77.0   | -                         | -     | 0.0                     | -     | SSW                     | SSW   | -             | -     | 1.0                  | 3.4   | 23.5                  | 31.0  |
| 29           | 24.0                 | 26.5  | 29.0                 | 33.0   | 25.5                | 27.5  | 22.5              | 23.0  | 80.0                  | 63.5   | -                         | -     | 0.4                     | 1.1   | SSW                     | SSW   | -             | -     | 1.0                  | 3.2   | 23.0                  | 29.0  |
| 30           | 18.0                 | 27.0  | 30.0                 | 34.0   | 23.0                | 28.0  | 21.0              | 23.5  | 83.0                  | 67.0   | -                         | -     | 0.1                     | 1.1   | SSW                     | SSW   | -             | -     | 1.0                  | 3.2   | 22.5                  | 29.5  |
| 31           | 18.0                 |       | 29.0                 |        | 23.0                |       | 21.0              |       | 83.0                  |        | -                         |       | 0.1                     |       | SSW                     |       | -             |       | 1.1                  |       | 22.0                  |       |
| Total        | 723.0                | 735.5 | 948.5                | 1017.0 | 823.5               | 875.0 | 764.5             | 778.5 | 2635.5                | 2310.5 | -                         | -     | 5.1                     | 33.1  |                         |       | 24.2          | 23.8  | 32.0                 | 95.1  | 805.0                 | 925.5 |
| Average      | 23.3                 | 23.7  | 30.6                 | 32.8   | 26.6                | 28.2  | 24.7              | 25.1  | 85.0                  | 74.5   | -                         | -     | 0.2                     | 1.1   |                         |       |               |       |                      |       | 26.0                  | 29.9  |
|              | 23.5                 |       | 31.7                 |        | 27.4                |       | 24.9              |       | 79.8                  |        | 0.0                       |       | 0.6                     |       |                         |       | 48.0 *        |       | 127.1                |       | 27.9                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| November 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM         |                      | 25.0  |                      | 33.0  |                     | 29.0  |                   | 26.0  |                       | 78.0   |                           | -     |                         | 0.5   |                         | SSW   |               | -     |                      | 2.8   |                       | 28.0  |
| 1             | 19.0                 | 20.0  | 30.0                 | 31.0  | 22.0                | 26.0  | 21.0              | 22.0  | 91.0                  | 69.0   | -                         | -     | 0.2                     | 1.4   | NE                      | SSW   | -             | -     | 1.0                  | 2.8   | 21.5                  | 27.5  |
| 2             | 19.0                 | 19.0  | 27.5                 | 31.0  | 22.0                | 26.0  | 20.5              | 22.0  | 87.0                  | 69.0   | -                         | -     | 0.2                     | 1.8   | SSW                     | SSW   | -             | -     | 0.9                  | 2.5   | 21.0                  | 27.0  |
| 3             | 17.0                 | 21.0  | 27.0                 | 30.5  | 21.5                | 26.0  | 20.0              | 22.0  | 86.0                  | 69.0   | -                         | -     | 0.1                     | 1.7   | SSE                     | SSW   | -             | -     | 0.8                  | 2.6   | 20.0                  | 27.0  |
| 4             | 18.5                 | 22.0  | 27.0                 | 30.0  | 22.0                | 25.0  | 20.0              | 22.0  | 82.0                  | 72.5   | -                         | -     | 0.3                     | 2.0   | SSW                     | SSE   | -             | -     | 1.0                  | 2.4   | 20.0                  | 26.0  |
| 5             | 16.0                 | 16.0  | 27.0                 | 31.5  | 22.0                | 26.5  | 20.5              | 22.0  | 87.0                  | 86.0   | -                         | -     | 0.1                     | 1.6   | SSE                     | SSE   | -             | -     | 0.9                  | 2.6   | 19.0                  | 27.0  |
| 6             | 17.5                 | 18.0  | 27.5                 | 31.0  | 23.5                | 27.0  | 21.0              | 22.5  | 79.0                  | 66.0   | -                         | -     | -                       | 1.3   | SSW                     | SSE   | -             | -     | 1.1                  | 2.6   | 20.5                  | 27.5  |
| 7             | 18.0                 | 18.0  | 28.0                 | 31.5  | 22.0                | 27.5  | 21.0              | 22.5  | 91.0                  | 63.5   | -                         | -     | 0.1                     | 1.2   | SSW                     | SSW   | -             | -     | 1.0                  | 2.8   | 20.5                  | 28.0  |
| 8             | 17.0                 | 18.0  | 27.0                 | 32.0  | 21.0                | 26.0  | 20.0              | 22.0  | 91.0                  | 69.0   | -                         | -     | 0.1                     | 1.0   | SSW                     | SSW   | -             | -     | 1.0                  | 3.0   | 20.0                  | 28.0  |
| 9             | 16.5                 | 17.5  | 28.5                 | 32.0  | 23.0                | 26.0  | 20.0              | 22.0  | 75.0                  | 69.0   | -                         | -     | 0.1                     | 1.2   | SSW                     | SSW   | -             | -     | 1.1                  | 3.0   | 20.5                  | 28.5  |
| 10            | 14.5                 | 25.0  | 23.0                 | 31.0  | 19.5                | 25.0  | 18.0              | 20.5  | 86.0                  | 65.0   | -                         | -     | 0.1                     | 1.3   | SSW                     | SSW   | -             | -     | 0.8                  | 2.8   | 17.5                  | 27.5  |
| 11            | 14.5                 | 25.0  | 26.0                 | 31.0  | 19.0                | 24.0  | 17.5              | 19.0  | 86.0                  | 60.0   | -                         | -     | 0.2                     | 1.3   | SSW                     | SSW   | -             | -     | 0.8                  | 2.8   | 17.0                  | 27.0  |
| 12            | 14.0                 | 22.0  | 25.0                 | 31.0  | 18.0                | 24.0  | 16.5              | 20.0  | 85.0                  | 68.0   | -                         | -     | 0.1                     | 1.0   | SSW                     | SSW   | -             | -     | 0.7                  | 2.8   | 16.5                  | 26.5  |
| 13            | 15.0                 | 15.5  | 25.0                 | 31.0  | 21.0                | 25.5  | 19.0              | 21.0  | 82.0                  | 65.0   | -                         | -     | 0.1                     | 1.4   | SSW                     | SSW   | -             | -     | 0.7                  | 2.7   | 16.5                  | 26.0  |
| 14            | 17.0                 | 19.0  | 28.0                 | 30.5  | 21.0                | 26.5  | 19.0              | 22.0  | 82.0                  | 66.0   | -                         | -     | 0.1                     | 1.8   | SSW                     | SSW   | -             | -     | 1.0                  | 2.5   | 19.0                  | 23.0  |
| 15            | 20.0                 | 20.0  | 28.0                 | 28.0  | 22.0                | 22.5  | 20.0              | 21.5  | 82.0                  | 91.0   | -                         | 2.0   | 0.3                     | 2.7   | SSW                     | SSW   | -             | -     | 1.2                  | 2.3   | 21.5                  | 24.0  |
| 16            | 20.5                 | 22.0  | 23.0                 | 24.0  | 22.5                | 25.0  | 21.0              | 22.5  | 87.0                  | 80.0   | 2.0                       | 2.0   | 0.8                     | 2.1   | NNE                     | NNE   | -             | -     | 1.1                  | 2.2   | 21.0                  | 23.0  |
| 17            | 22.0                 | 23.0  | 25.5                 | 29.0  | 24.5                | 26.0  | 22.5              | 23.0  | 83.5                  | 76.0   | -                         | -     | 0.9                     | 0.9   | NNE                     | NNE   | -             | -     | 1.2                  | 2.4   | 22.0                  | 24.0  |
| 18            | 19.0                 | 22.5  | 27.5                 | 31.0  | 23.5                | 27.0  | 21.5              | 23.5  | 83.0                  | 73.0   | -                         | -     | 0.1                     | 1.5   | SSW                     | SSW   | -             | -     | 1.1                  | 2.5   | 21.0                  | 26.0  |
| 19            | 19.5                 | 21.5  | 29.0                 | 32.0  | 22.0                | 28.0  | 21.0              | 24.0  | 91.0                  | 70.0   | -                         | -     | -                       | 0.9   | SSW                     | SSW   | -             | -     | 1.1                  | 2.6   | 22.0                  | 27.0  |
| 20            | 20.5                 | 22.0  | 30.5                 | 33.0  | 24.0                | 28.0  | 22.0              | 23.5  | 83.0                  | 67.0   | -                         | -     | 0.1                     | 1.3   | SSW                     | SSW   | -             | -     | 1.2                  | 2.6   | 23.0                  | 27.5  |
| 21            | 17.5                 | 19.0  | 29.0                 | 31.5  | 21.0                | 26.5  | 18.0              | 22.5  | 73.0                  | 69.5   | -                         | -     | 0.2                     | 1.1   | SSW                     | SSW   | -             | -     | 1.1                  | 2.6   | 21.0                  | 27.0  |
| 22            | 16.5                 | 17.0  | 27.5                 | 30.0  | 20.5                | 26.0  | 18.0              | 21.0  | 77.5                  | 62.0   | -                         | -     | -                       | 0.4   | SSW                     | SSW   | -             | -     | 0.9                  | 2.3   | 19.5                  | 25.0  |
| 23            | 15.0                 | 16.5  | 27.0                 | 30.0  | 19.5                | 27.0  | 17.0              | 21.0  | 86.0                  | 56.0   | -                         | -     | 0.1                     | 1.4   | SSW                     | SSW   | -             | -     | 0.9                  | 2.3   | 19.0                  | 25.0  |
| 24            | 14.0                 | 15.0  | 27.5                 | 29.0  | 19.0                | 24.0  | 15.5              | 18.5  | 67.0                  | 57.0   | -                         | -     | -                       | 1.7   | NNW                     | SW    | -             | -     | 0.8                  | 2.0   | 18.0                  | 22.0  |
| 25            | 11.0                 | 11.0  | 26.0                 | 30.5  | 17.0                | 25.0  | 14.0              | 19.0  | 70.0                  | 54.0   | -                         | -     | -                       | 1.3   | SSW                     | SSW   | -             | -     | 0.7                  | 2.2   | 16.0                  | 24.0  |
| 26            | 11.0                 | 11.0  | 27.0                 | 32.0  | 17.0                | 26.0  | 14.5              | 20.0  | 75.0                  | 55.0   | -                         | -     | -                       | 0.8   | SSW                     | SSW   | -             | -     | 0.7                  | 2.2   | 15.0                  | 23.5  |
| 27            | 11.5                 | 11.5  | 27.5                 | 31.0  | 16.5                | 25.5  | 14.5              | 19.5  | 79.5                  | 54.5   | -                         | -     | 0.1                     | 1.1   | SSW                     | SSW   | -             | -     | 0.7                  | 2.0   | 15.0                  | 23.0  |
| 28            | 11.0                 | 11.0  | 26.0                 | 31.5  | 16.0                | 23.5  | 14.0              | 18.5  | 79.0                  | 59.5   | -                         | -     | -                       | 1.0   | SSW                     | SSW   | -             | -     | 0.7                  | 2.0   | 14.5                  | 22.5  |
| 29            | 11.0                 | 12.0  | 25.5                 | 31.5  | 16.0                | 23.5  | 14.0              | 18.0  | 79.0                  | 56.0   | -                         | -     | 1.0                     | 1.1   | SSW                     | SSW   | -             | -     | 0.7                  | 1.8   | 14.0                  | 21.5  |
| 30            | 12.0                 |       | 25.0                 |       | 16.0                |       | 14.0              |       | 79.0                  |        | -                         |       | 0.1                     |       | SSW                     |       | -             |       | 0.7                  |       | 14.5                  |       |
| Total         | 485.5                | 556.0 | 808.0                | 922.0 | 614.5               | 773.5 | 555.5             | 643.5 | 2464.5                | 2015.5 | 2.0                       | 4.0   | 5.5                     | 39.8  |                         |       | -             | -     | 27.6                 | 74.7  | 566.5                 | 769.5 |
| Average       | 16.2                 | 18.5  | 26.9                 | 30.7  | 20.5                | 25.8  | 18.5              | 21.5  | 82.2                  | 67.2   | 0.1                       | 0.1   | 0.2                     | 1.3   |                         |       |               |       |                      |       | 18.9                  | 25.7  |
|               | 17.4                 |       | 28.8                 |       | 23.1                |       | 20.0              |       | 74.7                  |        | 0.1                       |       | 0.8                     |       |                         |       | 0.0           |       | 102.3                |       | 22.3                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| December 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM         |                      | 14.0  |                      | 31.0  |                     | 23.0  |                   | 18.5  |                       | 58.0   |                           | -     |                         | 1.1   |                         | SSW   |               | -     |                      | 2.0   |                       | 28.0  |
| 1             | 12.0                 | 15.0  | 29.0                 | 30.0  | 17.0                | 23.0  | 14.0              | 19.0  | 70.0                  | 67.0   | -                         | -     | 0.1                     | 1.3   | NNW                     | SSW   | -             | -     | 1.0                  | 1.8   | 16.0                  | 22.0  |
| 2             | 11.0                 | 12.0  | 24.5                 | 28.0  | 14.0                | 23.0  | 12.5              | 19.0  | 83.0                  | 67.0   | -                         | -     | -                       | 1.4   | SSW                     | SSW   | -             | -     | 0.8                  | 1.7   | 14.0                  | 21.0  |
| 3             | 11.0                 | 12.0  | 26.0                 | 29.0  | 14.0                | 23.5  | 13.0              | 18.5  | 89.0                  | 59.5   | -                         | -     | -                       | 1.1   | SSW                     | SSW   | -             | -     | 0.8                  | 1.8   | 15.0                  | 21.5  |
| 4             | 10.5                 | 10.5  | 24.0                 | 28.5  | 14.0                | 25.0  | 13.0              | 19.5  | 89.0                  | 58.0   | -                         | -     | -                       | 1.1   | SSW                     | SSW   | -             | -     | 0.8                  | 1.8   | 14.5                  | 21.0  |
| 5             | 11.0                 | 12.0  | 26.0                 | 28.5  | 15.0                | 23.0  | 14.0              | 19.0  | 89.0                  | 67.0   | -                         | -     | 0.1                     | 1.3   | SSW                     | SSW   | -             | -     | 0.7                  | 2.0   | 14.0                  | 22.5  |
| 6             | 12.0                 | 15.0  | 25.0                 | 28.5  | 15.0                | 24.0  | 14.5              | 20.0  | 89.0                  | 68.0   | -                         | -     | -                       | 1.3   | SSE                     | SSE   | -             | -     | 1.0                  | 1.9   | 16.0                  | 22.0  |
| 7             | 13.0                 | 15.0  | 25.0                 | 29.0  | 16.0                | 24.0  | 15.0              | 19.5  | 89.0                  | 64.0   | -                         | -     | -                       | 1.5   | SSE                     | SSE   | -             | -     | 0.9                  | 2.0   | 16.0                  | 22.0  |
| 8             | 14.0                 | 15.0  | 26.0                 | 31.0  | 19.0                | 25.0  | 16.0              | 22.0  | 76.0                  | 76.0   | -                         | -     | -                       | 1.9   | SSW                     | SSW   | -             | -     | 1.0                  | 2.0   | 16.0                  | 23.0  |
| 9             | 14.5                 | 15.0  | 27.5                 | 30.0  | 18.0                | 25.0  | 16.0              | 20.0  | 80.0                  | 61.0   | -                         | -     | 0.1                     | 1.5   | SSW                     | SSW   | -             | -     | 1.0                  | 1.9   | 17.0                  | 22.0  |
| 10            | 13.0                 | 15.5  | 26.5                 | 30.0  | 17.0                | 23.0  | 14.0              | 19.0  | 70.0                  | 63.5   | -                         | -     | 0.1                     | 0.9   | SSW                     | SSW   | -             | -     | 0.9                  | 1.9   | 16.0                  | 22.0  |
| 11            | 12.0                 | 13.0  | 25.0                 | 31.0  | 16.0                | 24.0  | 14.5              | 19.5  | 84.0                  | 64.0   | -                         | -     | -                       | 0.9   | SSW                     | SSW   | -             | -     | 0.8                  | 1.9   | 15.0                  | 22.5  |
| 12            | 11.0                 | 11.5  | 25.0                 | 32.0  | 16.0                | 24.0  | 14.0              | 19.5  | 79.0                  | 64.0   | -                         | -     | -                       | 0.8   | SSW                     | SSW   | -             | -     | 0.8                  | 2.0   | 15.0                  | 23.0  |
| 13            | 12.5                 | 13.0  | 26.0                 | 32.0  | 17.0                | 26.0  | 16.0              | 21.0  | 90.0                  | 62.0   | -                         | -     | -                       | 0.9   | SSW                     | SSW   | -             | -     | 0.9                  | 2.0   | 16.0                  | 23.5  |
| 14            | 14.0                 | 14.5  | 28.0                 | 31.0  | 18.0                | 25.0  | 16.5              | 20.0  | 85.0                  | 61.0   | -                         | -     | 0.1                     | 0.7   | SSW                     | SSW   | -             | -     | 1.0                  | 2.0   | 17.5                  | 23.0  |
| 15            | 14.0                 | 14.5  | 27.0                 | 31.5  | 18.0                | 25.5  | 16.5              | 20.5  | 85.0                  | 61.5   | -                         | -     | -                       | 1.1   | SSW                     | SSW   | -             | -     | 1.0                  | 2.2   | 17.0                  | 23.5  |
| 16            | 14.0                 | 14.5  | 27.0                 | 30.0  | 17.5                | 25.0  | 17.0              | 21.0  | 95.0                  | 68.0   | -                         | -     | -                       | 0.9   | SW                      | SSW   | -             | -     | 1.0                  | 2.0   | 16.0                  | 23.0  |
| 17            | 14.0                 | 14.5  | 26.5                 | 29.0  | 17.0                | 25.5  | 15.5              | 20.5  | 85.0                  | 61.5   | -                         | -     | -                       | 1.5   | SSW                     | SW    | -             | -     | 0.9                  | 1.8   | 17.0                  | 22.0  |
| 18            | 11.5                 | 12.0  | 25.0                 | 28.0  | 16.0                | 21.5  | 13.0              | 16.0  | 69.0                  | 53.0   | -                         | -     | 0.1                     | 2.0   | SSW                     | SW    | -             | -     | 0.8                  | 1.8   | 15.0                  | 20.5  |
| 19            | 9.0                  | 9.5   | 21.5                 | 29.0  | 14.0                | 22.0  | 11.5              | 18.0  | 72.0                  | 66.0   | -                         | -     | 0.1                     | 1.1   | SSW                     | SSW   | -             | -     | 0.6                  | 1.8   | 12.5                  | 20.0  |
| 20            | 9.5                  | 10.0  | 23.0                 | 28.5  | 13.5                | 22.5  | 12.5              | 19.0  | 88.5                  | 70.5   | -                         | -     | -                       | 1.4   | SSW                     | SSW   | -             | -     | 0.6                  | 1.8   | 12.0                  | 19.5  |
| 21            | 11.0                 | 11.0  | 25.0                 | 28.0  | 15.0                | 23.0  | 13.5              | 19.0  | 84.0                  | 67.0   | -                         | -     | 0.1                     | 1.2   | SSW                     | SSW   | -             | -     | 0.7                  | 1.6   | 13.0                  | 19.0  |
| 22            | 11.5                 | 11.5  | 25.0                 | 29.0  | 15.5                | 23.5  | 14.5              | 19.5  | 89.0                  | 67.5   | -                         | -     | 0.1                     | 1.2   | SSW                     | SSW   | -             | -     | 0.8                  | 1.6   | 14.0                  | 19.0  |
| 23            | 11.0                 | 11.5  | 25.0                 | 29.0  | 15.0                | 23.5  | 14.0              | 19.0  | 89.0                  | 63.5   | -                         | -     | -                       | 1.3   | SSW                     | SSW   | -             | -     | 0.8                  | 1.7   | 14.0                  | 21.5  |
| 24            | 10.0                 | 10.5  | 26.0                 | 29.0  | 15.0                | 23.0  | 13.0              | 18.5  | 78.0                  | 63.0   | -                         | -     | 0.1                     | 1.3   | NNW                     | SSW   | -             | -     | 0.8                  | 1.5   | 13.5                  | 20.5  |
| 25            | 11.0                 | 13.0  | 25.0                 | 31.0  | 14.0                | 24.0  | 12.5              | 19.0  | 83.0                  | 60.0   | -                         | -     | 0.1                     | 1.2   | SSW                     | SSW   | -             | -     | 0.8                  | 1.6   | 14.0                  | 21.0  |
| 26            | 10.0                 | 16.5  | 25.0                 | 28.0  | 14.0                | 23.0  | 12.0              | 17.5  | 78.0                  | 55.0   | -                         | -     | 0.2                     | 2.4   | NNW                     | NNW   | -             | -     | 0.7                  | 1.4   | 14.0                  | 19.0  |
| 27            | 8.0                  | 11.0  | 24.0                 | 30.0  | 13.0                | 23.0  | 11.0              | 17.5  | 77.0                  | 55.0   | -                         | -     | 0.1                     | 1.4   | SSW                     | SSW   | -             | -     | 0.6                  | 1.4   | 12.0                  | 18.5  |
| 28            | 8.0                  | 12.0  | 24.0                 | 30.0  | 12.5                | 23.0  | 11.0              | 19.0  | 82.5                  | 67.0   | -                         | -     | 0.1                     | 1.4   | SSW                     | SSW   | -             | -     | 0.6                  | 1.4   | 12.0                  | 19.0  |
| 29            | 9.5                  | 11.5  | 25.0                 | 29.0  | 12.0                | 24.0  | 11.0              | 19.0  | 88.0                  | 60.0   | -                         | -     | -                       | 1.4   | SSW                     | SSW   | -             | -     | 0.7                  | 1.6   | 13.0                  | 20.0  |
| 30            | 9.0                  | 12.5  | 26.0                 | 28.0  | 13.0                | 22.0  | 12.0              | 18.5  | 88.0                  | 70.0   | -                         | -     | -                       | 1.7   | SSE                     | SSE   | -             | -     | 0.8                  | 1.7   | 13.0                  | 20.5  |
| 31            | 9.5                  |       | 23.5                 |       | 13.0                |       | 12.0              |       | 88.0                  |        | -                         |       | 0.1                     |       | SSW                     |       | -             |       | 0.7                  |       | 13.0                  |       |
| Total         | 352.0                | 399.0 | 787.0                | 916.5 | 474.0               | 734.5 | 425.5             | 595.5 | 2581.0                | 1968.5 | -                         | -     | 1.6                     | 40.2  |                         |       | -             | -     | 25.3                 | 55.6  | 453.0                 | 665.5 |
| Average       | 11.4                 | 12.9  | 25.4                 | 29.6  | 15.3                | 23.7  | 13.7              | 19.2  | 83.3                  | 63.5   | -                         | -     | 0.1                     | 1.3   |                         |       |               |       |                      |       | 14.6                  | 21.5  |
|               | 12.1                 |       | 27.5                 |       | 19.5                |       | 16.5              |       | 73.4                  |        | 0.0                       |       | 0.7                     |       |                         |       | 0.0           |       | 80.9                 |       | 18.0                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| January 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM        |                      | 13.0  |                      | 31.0  |                     | 24.0  |                   | 19.5  |                       | 64.0   |                           | -     |                         | 1.0   |                         | SSW   |               | -     |                      | 2.0   |                       | 21.5  |
| 1            | 11.0                 | 12.0  | 23.0                 | 29.0  | 13.0                | 24.0  | 12.0              | 19.0  | 88.0                  | 60.0   | -                         | -     | 0.1                     | 1.4   | WSW                     | SSW   | -             | -     | 0.8                  | 1.6   | 14.0                  | 22.0  |
| 2            | 11.0                 | 13.0  | 26.0                 | 30.0  | 16.5                | 25.0  | 14.5              | 20.0  | 79.5                  | 61.0   | -                         | -     | 0.1                     | 1.0   | SW                      | SSW   | -             | -     | 1.0                  | 1.7   | 14.5                  | 23.0  |
| 3            | 11.0                 | 14.0  | 29.0                 | 32.0  | 14.0                | 27.0  | 12.0              | 22.0  | 78.0                  | 63.0   | -                         | -     | 0.2                     | 1.1   | SSW                     | SSW   | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 4            | 8.0                  | 12.0  | 27.5                 | 29.0  | 13.0                | 22.0  | 10.0              | 17.0  | 66.0                  | 58.0   | -                         | -     | 0.7                     | 1.4   | SSW                     | SSW   | -             | -     | 1.2                  | 1.5   | 14.5                  | 19.0  |
| 5            | 8.0                  | 10.5  | 23.0                 | 27.0  | 11.0                | 21.5  | 9.5               | 17.0  | 81.0                  | 61.0   | -                         | -     | 0.2                     | 1.7   | SSW                     | SSW   | -             | -     | 0.9                  | 1.3   | 12.0                  | 18.0  |
| 6            | 8.0                  | 8.5   | 23.5                 | 27.0  | 12.0                | 23.5  | 10.5              | 17.5  | 82.0                  | 52.5   | -                         | -     | 0.2                     | 1.6   | WSW                     | SSW   | -             | -     | 0.8                  | 1.2   | 12.0                  | 18.5  |
| 7            | 10.0                 | 12.0  | 24.0                 | 27.0  | 13.0                | 21.0  | 11.0              | 16.0  | 77.0                  | 57.0   | -                         | -     | 0.2                     | 1.7   | SSW                     | SSW   | -             | -     | 0.9                  | 1.3   | 12.5                  | 19.0  |
| 8            | 8.5                  | 12.5  | 23.0                 | 27.0  | 13.0                | 22.0  | 10.5              | 17.0  | 71.0                  | 58.0   | -                         | -     | 0.3                     | 1.6   | SSW                     | SSW   | -             | -     | 0.8                  | 1.4   | 12.0                  | 19.0  |
| 9            | 8.0                  | 12.0  | 24.0                 | 27.5  | 14.0                | 22.5  | 11.0              | 17.5  | 67.0                  | 58.5   | -                         | -     | 0.2                     | 1.6   | SSW                     | SSW   | -             | -     | 0.7                  | 1.4   | 12.0                  | 19.5  |
| 10           | 8.0                  | 11.0  | 24.0                 | 28.0  | 12.0                | 23.0  | 9.5               | 18.0  | 70.0                  | 59.0   | -                         | -     | 0.2                     | 2.0   | SSW                     | SSW   | -             | -     | 0.6                  | 1.5   | 11.0                  | 19.5  |
| 11           | 9.0                  | 12.5  | 24.5                 | 29.5  | 14.0                | 24.5  | 11.5              | 18.5  | 72.0                  | 53.5   | -                         | -     | 0.1                     | 1.9   | SSW                     | SSW   | -             | -     | 0.7                  | 1.5   | 12.0                  | 19.0  |
| 12           | 9.5                  | 12.0  | 26.0                 | 30.0  | 13.5                | 24.0  | 12.0              | 19.0  | 71.5                  | 53.0   | -                         | -     | 0.1                     | 1.7   | SSW                     | SSW   | -             | -     | 0.9                  | 1.5   | 13.0                  | 19.5  |
| 13           | 10.5                 | 15.0  | 26.0                 | 30.0  | 16.0                | 24.5  | 13.0              | 20.0  | 79.0                  | 57.5   | -                         | -     | 0.1                     | 1.6   | SSW                     | SSW   | -             | -     | 1.0                  | 1.6   | 14.0                  | 20.0  |
| 14           | 11.5                 | 15.0  | 26.5                 | 30.0  | 15.5                | 25.0  | 13.0              | 19.5  | 73.5                  | 61.0   | -                         | -     | 0.1                     | 1.7   | SSW                     | SSW   | -             | -     | 1.0                  | 1.6   | 15.0                  | 20.0  |
| 15           | 11.0                 | 14.5  | 27.0                 | 30.0  | 15.0                | 24.0  | 11.0              | 18.0  | 73.5                  | 60.0   | -                         | -     | 0.1                     | 2.3   | SSW                     | SSW   | -             | -     | 1.0                  | 1.7   | 15.0                  | 20.5  |
| 16           | 11.0                 | 12.5  | 26.0                 | 29.5  | 13.0                | 23.0  | 10.0              | 19.0  | 77.0                  | 59.0   | -                         | -     | 0.1                     | 1.8   | WSW                     | SSW   | -             | -     | 0.8                  | 1.6   | 13.0                  | 20.0  |
| 17           | 8.0                  | 11.5  | 25.5                 | 30.0  | 13.0                | 24.0  | 11.0              | 18.5  | 66.0                  | 60.0   | -                         | -     | 0.2                     | 1.6   | ESE                     | SSW   | -             | -     | 0.7                  | 1.6   | 13.0                  | 20.5  |
| 18           | 10.0                 | 13.5  | 26.0                 | 30.5  | 14.0                | 24.5  | 10.0              | 18.5  | 67.0                  | 53.5   | -                         | -     | 0.2                     | 2.1   | SSW                     | SSW   | -             | -     | 0.8                  | 1.6   | 13.5                  | 20.0  |
| 19           | 8.0                  | 12.5  | 25.5                 | 29.5  | 13.0                | 24.0  | 12.0              | 19.5  | 66.0                  | 57.0   | -                         | -     | 0.4                     | 1.9   | SW                      | SW    | -             | -     | 0.7                  | 1.5   | 12.0                  | 19.0  |
| 20           | 10.0                 | 13.0  | 26.0                 | 30.5  | 14.5                | 24.0  | 12.0              | 20.0  | 72.0                  | 60.5   | -                         | -     | 0.2                     | 1.3   | SW                      | SW    | -             | -     | 0.8                  | 1.8   | 13.0                  | 21.0  |
| 21           | 11.0                 | 11.0  | 26.5                 | 30.0  | 14.5                | 25.0  | 12.0              | 20.0  | 72.0                  | 61.0   | -                         | -     | 0.2                     | 1.4   | SW                      | SW    | -             | -     | 1.0                  | 1.8   | 14.0                  | 21.0  |
| 22           | 10.5                 | 13.0  | 26.0                 | 30.5  | 14.0                | 26.0  | 12.5              | 20.0  | 78.0                  | 55.0   | -                         | -     | 0.1                     | 1.5   | SW                      | SW    | -             | -     | 1.0                  | 1.8   | 14.5                  | 21.0  |
| 23           | 10.5                 | 13.0  | 27.5                 | 30.5  | 14.5                | 25.0  | 13.0              | 21.0  | 78.0                  | 61.0   | -                         | -     | 0.1                     | 1.5   | SW                      | SW    | -             | -     | 1.0                  | 1.8   | 14.5                  | 21.5  |
| 24           | 13.0                 | 16.0  | 27.0                 | 29.5  | 17.0                | 26.0  | 10.5              | 18.5  | 80.0                  | 62.0   | -                         | -     | 0.2                     | 2.5   | SW                      | SW    | -             | -     | 1.1                  | 1.6   | 16.0                  | 20.0  |
| 25           | 11.0                 | 11.0  | 27.0                 | 29.5  | 12.5                | 24.0  | 11.5              | 18.0  | 76.5                  | 57.0   | -                         | -     | 0.2                     | 2.2   | SW                      | SW    | -             | -     | 1.2                  | 1.5   | 16.5                  | 18.0  |
| 26           | 9.0                  | 13.0  | 25.5                 | 29.0  | 14.0                | 24.0  | 10.0              | 18.5  | 72.0                  | 53.0   | -                         | -     | 0.2                     | 1.9   | SW                      | SW    | -             | -     | 1.0                  | 1.7   | 14.0                  | 20.0  |
| 27           | 8.0                  | 12.0  | 25.0                 | 29.0  | 12.0                | 24.0  | 10.5              | 18.5  | 76.0                  | 57.0   | -                         | -     | 0.2                     | 1.6   | SW                      | SW    | -             | -     | 0.8                  | 1.5   | 13.0                  | 18.5  |
| 28           | 8.5                  | 13.0  | 25.0                 | 30.0  | 12.0                | 25.0  | 11.0              | 19.0  | 82.0                  | 51.5   | -                         | -     | 0.2                     | 2.1   | SW                      | SW    | -             | -     | 0.8                  | 2.1   | 13.0                  | 24.0  |
| 29           | 10.0                 | 12.0  | 26.0                 | 30.0  | 13.0                | 25.0  | 11.0              | 19.0  | 77.0                  | 54.0   | -                         | -     | 0.2                     | 2.2   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 14.0                  | 21.0  |
| 30           | 10.0                 | 13.5  | 27.0                 | 31.5  | 15.0                | 26.0  | 13.0              | 17.0  | 58.0                  | 49.0   | -                         | -     | 0.2                     | 2.4   | SW                      | SW    | -             | -     | 0.9                  | 2.0   | 13.0                  | 21.5  |
| 31           | 12.0                 |       | 28.5                 |       | 17.5                |       | 12.5              |       | 56.5                  |        | -                         |       | 0.5                     |       | SW                      |       | -             |       | 1.0                  |       | 14.0                  |       |
| Total        | 303.5                | 390.0 | 797.0                | 913.5 | 429.0               | 747.0 | 353.5             | 580.5 | 2283.0                | 1787.5 | -                         | -     | 6.3                     | 53.3  |                         |       | -             | -     | 27.9                 | 50.7  | 418.5                 | 629.0 |
| Average      | 9.8                  | 12.6  | 25.7                 | 29.5  | 13.8                | 24.1  | 11.4              | 18.7  | 73.6                  | 57.7   | -                         | -     | 0.2                     | 1.7   |                         |       |               |       |                      |       | 13.5                  | 20.3  |
|              | 11.2                 |       | 27.6                 |       | 19.0                |       | 15.1              |       | 65.7                  |        | 0.0                       |       | 1.0                     |       |                         |       | 0.0           |       | 78.6                 |       | 16.9                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| February 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM         |                      | 14.0  |                      | 28.5  |                     | 21.5  |                   | 18.0  |                       | 61.5   |                           | -     |                         | 1.4   |                         | SW    |               | -     |                      | 1.5   |                       | 19.0  |
| 1             | 11.0                 | 16.0  | 29.5                 | 31.5  | 17.0                | 27.5  | 13.0              | 21.5  | 61.0                  | 56.5   | -                         | -     | 0.4                     | 3.1   | SW                      | SW    | -             | -     | 1.1                  | 2.2   | 14.5                  | 21.0  |
| 2             | 11.0                 | 14.0  | 29.0                 | 32.5  | 15.0                | 28.0  | 12.0              | 21.0  | 68.0                  | 51.0   | -                         | -     | 0.3                     | 2.0   | SW                      | SW    | -             | -     | 1.0                  | 2.2   | 14.0                  | 23.0  |
| 3             | 12.5                 | 15.0  | 30.0                 | 31.0  | 16.5                | 28.0  | 13.0              | 21.0  | 64.5                  | 51.0   | -                         | -     | 0.2                     | 1.5   | SW                      | SW    | -             | -     | 1.2                  | 2.2   | 15.0                  | 23.5  |
| 4             | 14.0                 | 17.0  | 30.0                 | 34.5  | 18.5                | 29.0  | 15.0              | 22.5  | 66.5                  | 47.5   | -                         | -     | 0.2                     | 2.0   | SW                      | SW    | -             | -     | 1.2                  | 2.4   | 16.5                  | 25.0  |
| 5             | 15.0                 | 18.0  | 31.0                 | 35.0  | 19.0                | 29.5  | 16.0              | 23.0  | 72.0                  | 55.5   | -                         | -     | 0.1                     | 1.1   | SW                      | SW    | -             | -     | 1.3                  | 2.4   | 17.0                  | 25.5  |
| 6             | 15.0                 | 18.5  | 31.0                 | 34.5  | 19.5                | 29.0  | 17.0              | 22.5  | 76.5                  | 47.5   | -                         | -     | 0.1                     | 1.6   | SW                      | SW    | -             | -     | 1.4                  | 2.4   | 18.0                  | 25.5  |
| 7             | 17.5                 | 18.0  | 31.5                 | 33.0  | 20.0                | 24.5  | 17.5              | 20.5  | 77.0                  | 68.5   | -                         | -     | 0.2                     | 0.7   | SW                      | SW    | -             | -     | 1.4                  | 2.2   | 18.5                  | 25.0  |
| 8             | 16.0                 | 18.5  | 25.5                 | 33.0  | 19.0                | 28.5  | 16.5              | 22.5  | 76.0                  | 57.5   | -                         | -     | 0.2                     | 2.4   | SW                      | SW    | -             | -     | 1.2                  | 2.0   | 17.0                  | 26.0  |
| 9             | 16.5                 | 19.0  | 28.0                 | 33.5  | 21.0                | 29.0  | 18.0              | 22.0  | 73.0                  | 52.0   | -                         | 4.0   | 0.1                     | 2.9   | NW                      | NW    | -             | -     | 1.4                  | 2.1   | 18.0                  | 16.5  |
| 10            | 16.0                 | 18.5  | 30.5                 | 32.0  | 20.0                | 26.5  | 16.0              | 21.0  | 64.0                  | 59.0   | -                         | -     | 0.2                     | 2.1   | SW                      | SW    | -             | -     | 1.4                  | 2.0   | 18.5                  | 26.0  |
| 11            | 17.0                 | 18.0  | 27.5                 | 32.0  | 20.0                | 28.0  | 16.0              | 23.0  | 64.0                  | 64.0   | -                         | -     | 0.3                     | 2.7   | SW                      | SE    | -             | -     | 1.2                  | 2.0   | 18.0                  | 26.5  |
| 12            | 16.5                 | 17.5  | 29.0                 | 29.5  | 19.0                | 24.0  | 18.0              | 20.0  | 90.0                  | 68.0   | -                         | -     | 1.3                     | 2.8   | SW                      | NE    | 9.2           | -     | 1.0                  | 1.8   | 18.5                  | 26.0  |
| 13            | 18.0                 | 18.5  | 25.0                 | 27.0  | 19.0                | 21.0  | 17.0              | 19.0  | 81.0                  | 82.0   | -                         | -     | 0.5                     | 1.8   | SW                      | SW    | 2.2           | 0.8   | 0.8                  | 1.6   | 17.0                  | 23.0  |
| 14            | 15.0                 | 16.5  | 22.0                 | 28.0  | 17.5                | 24.5  | 16.5              | 20.5  | 90.0                  | 68.0   | -                         | -     | 1.5                     | 2.5   | SW                      | SW    | 6.2           | -     | 0.6                  | 1.8   | 17.0                  | 24.0  |
| 15            | 14.0                 | 14.5  | 26.0                 | 29.5  | 17.0                | 25.0  | 16.0              | 19.0  | 90.0                  | 51.0   | -                         | -     | 0.1                     | 2.2   | SW                      | SW    | -             | -     | 0.8                  | 2.2   | 18.0                  | 27.0  |
| 16            | 12.0                 | 16.5  | 27.0                 | 31.5  | 17.0                | 27.0  | 14.5              | 20.5  | 75.0                  | 53.0   | -                         | -     | 0.1                     | 2.2   | SW                      | SW    | -             | -     | 0.8                  | 2.3   | 16.0                  | 27.0  |
| 17            | 13.5                 | 17.0  | 28.5                 | 31.0  | 18.0                | 28.0  | 16.0              | 21.0  | 80.0                  | 51.0   | -                         | -     | 0.1                     | 1.9   | SW                      | SW    | -             | -     | 1.0                  | 2.3   | 17.0                  | 26.5  |
| 18            | 14.5                 | 17.5  | 29.0                 | 33.0  | 18.0                | 28.5  | 15.0              | 21.0  | 71.0                  | 54.5   | -                         | -     | 0.2                     | 1.7   | SW                      | SW    | -             | -     | 1.2                  | 2.4   | 18.0                  | 27.5  |
| 19            | 15.0                 | 18.0  | 30.0                 | 34.0  | 19.0                | 29.5  | 16.0              | 22.0  | 72.0                  | 49.5   | -                         | -     | 0.1                     | 1.9   | SW                      | SW    | -             | -     | 1.2                  | 2.6   | 18.0                  | 28.5  |
| 20            | 17.0                 | 17.5  | 31.5                 | 33.0  | 20.5                | 29.0  | 17.5              | 22.0  | 73.0                  | 55.0   | -                         | -     | 0.2                     | 1.9   | SW                      | SW    | -             | -     | 1.3                  | 2.6   | 20.5                  | 29.0  |
| 21            | 17.5                 | 18.0  | 31.5                 | 34.0  | 20.5                | 29.0  | 18.0              | 21.0  | 77.5                  | 46.0   | -                         | -     | 0.1                     | 2.3   | SW                      | SW    | -             | -     | 1.3                  | 2.8   | 19.0                  | 29.0  |
| 22            | 14.5                 | 15.0  | 31.0                 | 35.5  | 20.0                | 30.5  | 16.5              | 23.0  | 68.0                  | 50.5   | -                         | -     | 0.2                     | 2.0   | SW                      | SW    | -             | -     | 1.3                  | 2.8   | 19.5                  | 30.0  |
| 23            | 15.5                 | 16.0  | 32.5                 | 36.5  | 22.5                | 33.0  | 18.5              | 25.0  | 66.5                  | 45.0   | -                         | -     | 0.2                     | 1.8   | SW                      | SW    | -             | -     | 1.4                  | 3.0   | 20.5                  | 31.0  |
| 24            | 18.0                 | 18.5  | 34.0                 | 37.5  | 23.5                | 32.0  | 19.0              | 26.0  | 63.5                  | 61.0   | -                         | -     | 0.1                     | 1.7   | SW                      | SW    | -             | -     | 1.4                  | 3.0   | 21.0                  | 30.5  |
| 25            | 19.0                 | 22.0  | 34.0                 | 37.5  | 22.0                | 32.0  | 18.5              | 25.5  | 70.0                  | 58.0   | -                         | -     | 0.0                     | 2.0   | SW                      | SW    | -             | -     | 1.5                  | 2.9   | 22.0                  | 30.5  |
| 26            | 20.0                 | 22.5  | 33.0                 | 35.0  | 24.0                | 32.0  | 20.0              | 25.0  | 68.0                  | 53.0   | -                         | 2.0   | 0.3                     | 2.3   | NW                      | NW    | -             | -     | 1.6                  | 2.8   | 20.0                  | 31.0  |
| 27            | 16.0                 | 20.5  | 33.5                 | 36.5  | 20.0                | 31.0  | 17.0              | 23.5  | 73.0                  | 51.0   | -                         | 2.0   | 0.3                     | 2.6   | SW                      | SW    | -             | -     | 1.4                  | 2.8   | 19.5                  | 30.0  |
| 28            | 16.0                 |       | 33.0                 |       | 21.0                |       | 17.5              |       | 69.0                  |        | -                         |       | 0.2                     |       | SW                      |       | -             |       | 1.5                  |       | 20.5                  |       |
| Total         | 433.5                | 490.5 | 834.0                | 920.0 | 544.0               | 785.0 | 461.5             | 612.5 | 2040.0                | 1568.0 | -                         | 8.0   | 7.8                     | 57.1  |                         |       | 17.6          | 0.8   | 33.9                 | 65.3  | 507.0                 | 733.0 |
| Average       | 15.5                 | 17.5  | 29.8                 | 32.9  | 19.4                | 28.0  | 16.5              | 21.9  | 72.9                  | 56.0   | -                         | 0.3   | 0.3                     | 2.0   |                         |       |               |       |                      |       | 18.1                  | 26.2  |
|               | 16.5                 |       | 31.3                 |       | 23.7                |       | 19.2              |       | 64.4                  |        | 0.1                       |       | 1.2                     |       |                         |       | 18.4          |       | 99.2                 |       | 22.1                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| March 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM      |                      | 20.0  |                      | 35.0   |                     | 30.0   |                   | 23.0  |                       | 54.0   |                           | -     |                         | 1.3   |                         | SW    |               | -     |                      | 2.4   |                       | 31.0  |
| 1          | 16.0                 | 21.0  | 34.0                 | 38.0   | 22.5                | 33.0   | 19.0              | 25.0  | 70.5                  | 50.0   | -                         | -     | 0.1                     | 2.3   | SW                      | SW    | -             | -     | 1.5                  | 3.0   | 20.0                  | 31.0  |
| 2          | 18.0                 | 22.5  | 35.0                 | 38.5   | 24.0                | 34.0   | 20.0              | 26.0  | 68.0                  | 51.0   | -                         | -     | 0.1                     | 2.2   | SW                      | SW    | -             | -     | 1.6                  | 3.0   | 20.5                  | 31.0  |
| 3          | 19.5                 | 24.0  | 36.0                 | 39.0   | 25.0                | 33.5   | 21.0              | 26.0  | 68.0                  | 53.5   | -                         | -     | 0.3                     | 2.8   | SW                      | SW    | -             | -     | 1.7                  | 3.2   | 21.5                  | 32.0  |
| 4          | 19.0                 | 25.0  | 36.0                 | 39.5   | 25.5                | 34.0   | 20.0              | 26.0  | 58.5                  | 51.0   | -                         | -     | 0.3                     | 2.0   | SW                      | SW    | -             | -     | 1.7                  | 3.3   | 22.0                  | 32.0  |
| 5          | 21.0                 | 24.0  | 37.5                 | 39.0   | 24.0                | 29.0   | 20.0              | 24.0  | 68.0                  | 64.0   | -                         | 4.0   | 0.4                     | 4.7   | SW                      | NW    | -             | -     | 1.8                  | 3.0   | 22.0                  | 28.0  |
| 6          | 18.5                 | 22.0  | 31.0                 | 35.5   | 22.5                | 32.0   | 19.0              | 25.0  | 70.5                  | 55.0   | -                         | -     | 0.3                     | 1.9   | SW                      | SW    | -             | -     | 1.5                  | 3.2   | 20.5                  | 29.5  |
| 7          | 18.5                 | 24.0  | 33.0                 | 36.5   | 24.0                | 32.5   | 19.0              | 25.0  | 60.0                  | 52.0   | -                         | -     | 0.3                     | 2.1   | SW                      | SW    | -             | -     | 1.6                  | 3.0   | 21.0                  | 31.0  |
| 8          | 18.5                 | 23.5  | 34.5                 | 35.5   | 24.0                | 31.5   | 19.5              | 25.5  | 64.0                  | 60.5   | -                         | -     | 0.4                     | 3.8   | NE                      | NE    | -             | -     | 1.4                  | 2.8   | 21.0                  | 29.5  |
| 9          | 20.5                 | 21.5  | 33.0                 | 35.0   | 22.0                | 31.0   | 18.0              | 25.0  | 66.0                  | 60.0   | -                         | -     | 1.0                     | 1.3   | SW                      | SE    | -             | -     | 1.2                  | 2.8   | 20.0                  | 29.0  |
| 10         | 17.0                 | 23.0  | 34.0                 | 38.5   | 24.5                | 34.0   | 20.5              | 26.0  | 68.0                  | 51.0   | -                         | -     | 0.1                     | 2.2   | SW                      | NE    | -             | -     | 1.4                  | 2.5   | 20.5                  | 31.0  |
| 11         | 20.0                 | 26.0  | 35.0                 | 38.5   | 26.5                | 34.0   | 21.0              | 27.0  | 66.0                  | 56.0   | -                         | -     | 0.5                     | 2.2   | NE                      | NE    | -             | -     | 1.8                  | 2.5   | 22.5                  | 31.0  |
| 12         | 22.5                 | 27.0  | 36.0                 | 38.0   | 27.0                | 34.0   | 22.0              | 26.0  | 63.0                  | 51.0   | -                         | -     | 0.8                     | 4.2   | SW                      | SW    | -             | -     | 1.8                  | 2.4   | 23.0                  | 31.0  |
| 13         | 21.0                 | 26.0  | 36.0                 | 38.0   | 26.0                | 33.0   | 20.5              | 25.0  | 59.0                  | 50.0   | -                         | -     | 0.5                     | 4.3   | SE                      | SW    | -             | -     | 1.5                  | 2.4   | 22.0                  | 30.5  |
| 14         | 19.5                 | 24.0  | 34.0                 | 40.0   | 25.5                | 35.5   | 20.0              | 27.5  | 58.5                  | 52.5   | -                         | -     | 0.7                     | 2.3   | SE                      | SE    | -             | -     | 1.3                  | 2.8   | 21.0                  | 32.5  |
| 15         | 22.0                 | 26.0  | 38.0                 | 39.0   | 27.5                | 33.0   | 21.0              | 26.0  | 56.5                  | 56.0   | -                         | -     | 0.4                     | 3.6   | SW                      | NE    | -             | -     | 1.5                  | 2.8   | 22.5                  | 32.5  |
| 16         | 20.5                 | 21.5  | 34.0                 | 35.0   | 22.0                | 32.0   | 20.0              | 25.0  | 82.0                  | 82.0   | -                         | -     | 1.3                     | 2.7   | SW                      | SW    | 3.0           | 0.4   | 1.2                  | 1.4   | 21.0                  | 22.5  |
| 17         | 18.0                 | 21.5  | 32.0                 | 34.5   | 22.0                | 31.5   | 20.0              | 26.0  | 82.0                  | 64.0   | -                         | -     | 0.6                     | 4.0   | SW                      | SW    | -             | -     | 0.6                  | 1.8   | 20.0                  | 31.0  |
| 18         | 21.0                 | 25.0  | 32.5                 | 36.0   | 25.0                | 32.0   | 21.0              | 26.0  | 68.0                  | 61.0   | -                         | -     | 0.4                     | 2.5   | NW                      | NW    | -             | -     | 1.0                  | 2.1   | 23.0                  | 31.5  |
| 19         | 19.0                 | 27.0  | 34.0                 | 38.0   | 27.0                | 34.0   | 22.0              | 27.0  | 63.0                  | 56.0   | 2.0                       | -     | 0.5                     | 3.5   | NE                      | SW    | -             | -     | 0.8                  | 2.3   | 21.0                  | 32.0  |
| 20         | 18.0                 | 24.0  | 35.0                 | 39.0   | 25.0                | 34.0   | 20.0              | 26.5  | 58.0                  | 54.0   | -                         | -     | 0.1                     | 1.8   | NW                      | SW    | -             | -     | 0.9                  | 2.2   | 21.0                  | 31.5  |
| 21         | 19.5                 | 23.0  | 35.5                 | 37.0   | 24.0                | 33.0   | 19.5              | 27.0  | 60.0                  | 61.5   | -                         | -     | 0.3                     | 1.6   | SW                      | NE    | -             | -     | 1.1                  | 2.1   | 22.0                  | 31.0  |
| 22         | 20.5                 | 23.5  | 35.0                 | 40.0   | 24.0                | 35.0   | 20.5              | 28.0  | 71.0                  | 57.0   | -                         | -     | 1.2                     | 2.1   | NW                      | SW    | 3.2           | -     | 0.6                  | 2.2   | 22.0                  | 32.0  |
| 23         | 19.0                 | 28.5  | 37.0                 | 40.0   | 30.0                | 35.0   | 25.0              | 28.0  | 65.0                  | 57.0   | -                         | -     | 0.4                     | 3.6   | NE                      | SW    | -             | -     | 1.1                  | 2.2   | 23.5                  | 32.0  |
| 24         | 19.5                 | 28.0  | 37.0                 | 40.0   | 30.0                | 35.0   | 25.0              | 28.0  | 65.0                  | 57.0   | -                         | 2.0   | 0.4                     | 3.5   | NE                      | NW    | -             | -     | 1.2                  | 2.5   | 22.0                  | 32.5  |
| 25         | 20.0                 | 26.0  | 37.5                 | 39.0   | 26.0                | 34.5   | 22.0              | 28.0  | 69.0                  | 59.5   | -                         | -     | 0.4                     | 2.9   | SE                      | SW    | -             | -     | 1.3                  | 2.5   | 22.0                  | 32.0  |
| 26         | 19.5                 | 27.0  | 36.0                 | 38.5   | 28.0                | 33.0   | 23.0              | 28.0  | 64.0                  | 67.5   | -                         | -     | 0.3                     | 3.1   | NE                      | SW    | -             | -     | 1.4                  | 2.8   | 22.5                  | 32.5  |
| 27         | 18.0                 | 25.0  | 37.0                 | 40.5   | 26.0                | 35.0   | 22.0              | 28.0  | 69.0                  | 57.0   | -                         | -     | 0.4                     | 2.9   | NW                      | SW    | -             | -     | 1.6                  | 2.9   | 21.5                  | 33.0  |
| 28         | 19.0                 | 26.5  | 38.0                 | 42.0   | 27.0                | 35.0   | 22.0              | 28.0  | 63.0                  | 57.0   | -                         | -     | 0.3                     | 2.3   | SE                      | SE    | -             | -     | 1.6                  | 3.0   | 22.0                  | 31.0  |
| 29         | 22.0                 | 26.5  | 39.5                 | 41.0   | 27.5                | 36.0   | 24.0              | 29.0  | 73.5                  | 58.0   | -                         | -     | 0.6                     | 2.4   | NE                      | SE    | -             | -     | 1.8                  | 3.0   | 22.5                  | 32.5  |
| 30         | 20.0                 | 27.0  | 38.5                 | 42.0   | 29.0                | 37.5   | 25.0              | 30.0  | 71.0                  | 56.5   | -                         | -     | 0.3                     | 3.3   | NW                      | NW    | -             | -     | 2.0                  | 3.2   | 22.5                  | 33.0  |
| 31         | 20.5                 |       | 37.0                 |        | 28.0                |        | 23.0              |       | 64.0                  |        | -                         |       | 0.4                     |       | SE                      |       | -             |       | 2.0                  |       | 22.5                  |       |
| Total      | 605.5                | 759.5 | 1098.5               | 1186.0 | 791.0               | 1036.5 | 654.5             | 820.5 | 2052.0                | 1772.5 | 2.0                       | 6.0   | 14.1                    | 85.4  |                         |       | 6.2           | 0.4   | 43.5                 | 81.3  | 671.0                 | 962.5 |
| Average    | 19.5                 | 24.5  | 35.4                 | 38.3   | 25.5                | 33.4   | 21.1              | 26.5  | 66.2                  | 57.2   | 0.1                       | 0.2   | 0.5                     | 2.8   |                         |       |               |       |                      |       | 21.6                  | 31.0  |
|            | 22.0                 |       | 36.8                 |        | 29.5                |        | 23.8              |       | 61.7                  |        | 0.1                       |       | 1.6                     |       |                         |       | 6.6           |       | 124.8                |       | 26.3                  |       |

## Twice Daily Climatic Data

Station Code : EMN00B3

Local River/Basin : Jonk

Station Name : Rampur

Sub-Division : UMSD,CWC,Raipur

- 0.0 .. N.A.

| April 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|------------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM      |                      | 21.0  |                      | 39.0   |                     | 32.5   |                   | 24.5  |                       | 49.5   |                           | -     |                         | 2.2   |                         | SW    |               | -     |                      | 2.9   |                       | 31.0   |
| 1          | 22.0                 | 24.0  | 38.5                 | 40.0   | 28.5                | 35.0   | 25.0              | 28.0  | 74.0                  | 57.0   | -                         | 2.0   | 1.0                     | 3.0   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.5                  | 32.5   |
| 2          | 18.0                 | 26.0  | 37.0                 | 36.5   | 25.0                | 34.0   | 22.0              | 28.0  | 76.0                  | 62.0   | -                         | -     | 2.8                     | 2.5   | NW                      | NW    | 3.4           | -     | 1.8                  | 3.2   | 20.5                  | 33.0   |
| 3          | 21.0                 | 27.0  | 35.0                 | 38.0   | 26.0                | 35.5   | 25.0              | 29.5  | 92.0                  | 62.5   | -                         | -     | 0.9                     | 2.6   | NW                      | NW    | -             | -     | 1.8                  | 3.0   | 23.0                  | 32.0   |
| 4          | 22.0                 | 29.0  | 36.0                 | 40.0   | 29.5                | 35.0   | 27.5              | 30.0  | 85.0                  | 68.5   | -                         | -     | 0.5                     | 3.5   | NW                      | NW    | -             | -     | 2.0                  | 3.2   | 32.0                  | 32.5   |
| 5          | 24.0                 | 24.0  | 38.0                 | 41.0   | 28.0                | 35.0   | 25.0              | 30.0  | 77.0                  | 68.5   | -                         | -     | 0.5                     | 4.4   | NW                      | NW    | -             | -     | 2.2                  | 3.5   | 25.0                  | 33.5   |
| 6          | 24.5                 | 24.5  | 37.0                 | 41.5   | 28.0                | 36.0   | 26.0              | 30.0  | 85.0                  | 63.0   | -                         | -     | 1.3                     | 4.3   | NW                      | NW    | -             | -     | 2.4                  | 3.6   | 24.0                  | 33.0   |
| 7          | 26.0                 | 28.5  | 37.0                 | 39.5   | 30.0                | 35.5   | 26.0              | 30.5  | 72.0                  | 68.5   | -                         | -     | 2.2                     | 3.7   | NW                      | NW    | -             | -     | 2.4                  | 3.4   | 24.0                  | 33.0   |
| 8          | 24.5                 | 28.0  | 37.0                 | 39.0   | 28.0                | 35.5   | 25.0              | 30.5  | 77.0                  | 68.5   | -                         | -     | 2.0                     | 3.3   | SW                      | SW    | -             | -     | 2.2                  | 3.5   | 24.5                  | 33.0   |
| 9          | 25.0                 | 30.0  | 37.0                 | 39.0   | 31.0                | 36.0   | 27.0              | 30.0  | 72.0                  | 63.0   | -                         | -     | 0.8                     | 4.4   | NW                      | NW    | -             | -     | 2.2                  | 3.6   | 25.0                  | 33.5   |
| 10         | 24.0                 | 27.0  | 37.0                 | 39.0   | 29.0                | 35.5   | 23.0              | 29.0  | 70.0                  | 61.0   | -                         | -     | 1.8                     | 3.3   | SW                      | SW    | 1.6           | -     | 2.2                  | 3.8   | 24.5                  | 32.0   |
| 11         | 26.0                 | 26.0  | 37.0                 | 40.0   | 31.0                | 37.0   | 26.0              | 30.0  | 67.0                  | 58.0   | -                         | -     | 1.3                     | 3.9   | NW                      | NW    | -             | -     | 2.4                  | 4.0   | 25.0                  | 34.0   |
| 12         | 25.0                 | 24.0  | 39.0                 | 37.0   | 38.0                | 34.0   | 25.0              | 28.5  | 32.0                  | 65.0   | 4.0                       | -     | 0.9                     | 1.8   | NE                      | NW    | -             | 8.8   | 2.5                  | 3.8   | 24.0                  | 33.0   |
| 13         | 24.0                 | 28.5  | 36.0                 | 39.0   | 28.0                | 35.0   | 24.0              | 30.0  | 70.0                  | 69.0   | 2.0                       | -     | 2.7                     | 2.8   | NW                      | NE    | -             | -     | 2.0                  | 4.0   | 23.0                  | 33.0   |
| 14         | 25.0                 | 28.0  | 39.0                 | 39.0   | 28.0                | 31.0   | 25.0              | 26.0  | 77.0                  | 65.0   | -                         | 2.0   | 1.3                     | 5.3   | NW                      | NE    | -             | -     | 2.0                  | 4.0   | 23.0                  | 32.0   |
| 15         | 22.0                 | 27.0  | 32.0                 | 40.0   | 27.0                | 37.0   | 24.0              | 30.0  | 77.0                  | 58.0   | -                         | -     | 2.5                     | 3.8   | NW                      | NE    | -             | -     | 1.5                  | 4.0   | 23.0                  | 34.0   |
| 16         | 24.0                 | 27.0  | 38.0                 | 41.5   | 29.0                | 37.5   | 26.0              | 30.5  | 78.0                  | 58.0   | -                         | -     | 2.2                     | 3.4   | NW                      | NE    | -             | -     | 2.0                  | 4.0   | 25.0                  | 34.0   |
| 17         | 26.0                 | 26.0  | 39.0                 | 44.0   | 33.0                | 40.0   | 29.0              | 32.0  | 73.0                  | 56.0   | -                         | -     | 0.2                     | 5.7   | NW                      | NE    | -             | -     | 2.2                  | 4.2   | 28.0                  | 35.0   |
| 18         | 28.0                 | 27.0  | 40.0                 | 44.0   | 32.0                | 39.0   | 30.0              | 30.0  | 86.0                  | 51.0   | -                         | -     | 1.5                     | 5.5   | NW                      | NW    | -             | -     | 3.0                  | 4.0   | 30.0                  | 37.0   |
| 19         | 26.0                 | 27.0  | 40.0                 | 43.0   | 33.0                | 40.0   | 28.0              | 33.0  | 67.5                  | 61.0   | -                         | -     | 0.3                     | 2.9   | NW                      | NW    | -             | -     | 3.2                  | 4.5   | 31.0                  | 37.5   |
| 20         | 25.0                 | 27.0  | 42.5                 | 42.0   | 33.0                | 40.0   | 28.0              | 33.0  | 67.5                  | 61.0   | -                         | -     | 0.3                     | 5.8   | NW                      | NW    | -             | -     | 3.2                  | 4.5   | 32.0                  | 37.0   |
| 21         | 28.0                 | 35.0  | 40.0                 | 44.0   | 34.0                | 40.0   | 29.0              | 32.0  | 67.5                  | 56.0   | -                         | -     | 1.1                     | 4.5   | NW                      | NW    | -             | -     | 3.2                  | 4.0   | 30.0                  | 34.0   |
| 22         | 26.0                 | 34.5  | 42.0                 | 43.5   | 34.0                | 39.5   | 29.0              | 33.5  | 67.5                  | 65.5   | -                         | -     | 1.0                     | 3.3   | NW                      | NW    | -             | -     | 3.0                  | 4.0   | 28.0                  | 34.0   |
| 23         | 25.5                 | 33.0  | 41.5                 | 42.0   | 33.0                | 39.0   | 28.0              | 33.0  | 67.5                  | 65.0   | -                         | -     | 0.5                     | 2.0   | SW                      | NE    | -             | -     | 2.5                  | 4.0   | 26.0                  | 34.5   |
| 24         | 26.0                 | 30.0  | 41.0                 | 42.0   | 33.0                | 37.0   | 29.0              | 30.0  | 73.5                  | 58.5   | -                         | -     | 1.0                     | 2.0   | NE                      | NW    | -             | -     | 2.8                  | 4.2   | 24.0                  | 35.0   |
| 25         | 24.0                 | 30.0  | 39.0                 | 42.0   | 33.0                | 38.0   | 29.0              | 32.0  | 73.5                  | 58.0   | -                         | -     | 1.3                     | 4.4   | SW                      | SW    | -             | -     | 2.6                  | 4.4   | 23.0                  | 36.0   |
| 26         | 25.0                 | 29.5  | 40.0                 | 41.0   | 33.5                | 38.0   | 28.0              | 33.0  | 65.0                  | 70.0   | -                         | -     | 0.5                     | 6.4   | SW                      | SW    | -             | -     | 2.8                  | 4.4   | 24.0                  | 35.0   |
| 27         | 23.0                 | 30.0  | 43.0                 | 40.0   | 34.0                | 38.0   | 30.0              | 32.0  | 74.0                  | 64.0   | -                         | -     | 2.1                     | 2.2   | SW                      | SW    | -             | -     | 2.8                  | 4.4   | 24.0                  | 35.0   |
| 28         | 22.0                 | 31.0  | 42.0                 | 42.0   | 31.0                | 39.0   | 27.0              | 34.0  | 72.5                  | 70.5   | -                         | -     | 3.6                     | 5.7   | SW                      | SW    | -             | -     | 2.9                  | 4.5   | 24.0                  | 34.0   |
| 29         | 26.0                 | 30.0  | 40.0                 | 44.0   | 30.0                | 41.0   | 28.0              | 34.0  | 85.0                  | 61.5   | -                         | -     | 1.9                     | 4.0   | SW                      | SW    | -             | -     | 2.7                  | 4.4   | 25.0                  | 35.0   |
| 30         | 28.0                 |       | 44.0                 |        | 35.5                |        | 31.5              |       | 72.5                  |        | -                         |       | 1.7                     |       | NW                      |       | -             |       | 2.8                  |       | 28.0                  |        |
| Total      | 735.5                | 839.5 | 1164.5               | 1222.5 | 926.0               | 1105.5 | 805.0             | 916.5 | 2193.5                | 1863.0 | 6.0                       | 4.0   | 41.7                    | 112.6 |                         |       | 5.0           | 8.8   | 73.3                 | 116.0 | 765.0                 | 1018.0 |
| Average    | 24.5                 | 28.0  | 38.8                 | 40.8   | 30.9                | 36.9   | 26.8              | 30.6  | 73.1                  | 62.1   | 0.2                       | 0.1   | 1.4                     | 3.8   |                         |       |               |       |                      |       | 25.5                  | 33.9   |
|            | 26.3                 |       | 39.8                 |        | 33.9                |        | 28.7              |       | 67.6                  |        | 0.2                       |       | 2.6                     |       |                         |       | 13.8          |       | 189.3                |       | 29.7                  |        |

## Twice Daily Climatic Data

Station Code : EMN00B3

Station Name : Rampur

Local River/Basin : Jonk

Sub-Division : UMSD,CWC,Raipur

May 2018

- 0.0 .. N.A.

| Day     | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |        | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|--------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30  | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 30.0  |                      | 40.0   |                     | 40.0   |                   | 35.0   |                       | 62.0   |                           | -     |                         | 3.8   |                         | NW    |               | -     |                      | 4.4   |                       | 34.0   |
| 1       | 27.0                 | 23.0  | 42.0                 | 43.0   | 34.0                | 29.0   | 30.0              | 27.0   | 74.0                  | 85.0   | -                         | 4.0   | 2.6                     | 3.4   | SW                      | NW    | -             | -     | 2.0                  | 3.2   | 27.0                  | 29.0   |
| 2       | 24.0                 | 24.0  | 29.0                 | 41.0   | 29.0                | 37.0   | 27.0              | 33.0   | 85.0                  | 75.0   | 2.0                       | 2.0   | 1.6                     | 4.2   | NW                      | NW    | 3.2           | -     | 1.2                  | 3.8   | 27.0                  | 34.0   |
| 3       | 24.5                 | 28.0  | 40.0                 | 37.5   | 27.0                | 36.0   | 25.0              | 31.0   | 84.0                  | 69.0   | -                         | -     | 3.8                     | 2.1   | SE                      | SE    | 3.8           | -     | 1.8                  | 4.0   | 24.5                  | 34.0   |
| 4       | 26.0                 | 31.0  | 37.0                 | 40.0   | 30.0                | 38.0   | 27.0              | 33.0   | 78.0                  | 70.0   | 2.0                       | 4.0   | 1.4                     | 6.7   | SE                      | SW    | -             | -     | 2.1                  | 4.2   | 27.0                  | 34.5   |
| 5       | 27.0                 | 33.0  | 39.0                 | 43.0   | 33.0                | 40.0   | 29.0              | 35.0   | 68.0                  | 71.0   | 4.0                       | 2.0   | 1.7                     | 7.0   | SW                      | SW    | -             | -     | 2.3                  | 4.4   | 28.0                  | 34.5   |
| 6       | 31.5                 | 32.0  | 41.5                 | 44.0   | 35.0                | 41.0   | 31.5              | 35.0   | 77.5                  | 66.5   | -                         | 2.0   | 3.4                     | 6.3   | SW                      | SW    | -             | -     | 2.5                  | 4.4   | 30.0                  | 34.0   |
| 7       | 31.5                 | 32.0  | 43.0                 | 44.5   | 36.0                | 41.0   | 32.0              | 35.0   | 75.0                  | 66.5   | 4.0                       | 2.0   | 4.4                     | 5.8   | SW                      | SW    | -             | -     | 2.7                  | 4.7   | 30.0                  | 37.0   |
| 8       | 32.0                 | 37.0  | 43.0                 | 45.0   | 36.0                | 42.0   | 32.0              | 36.0   | 75.0                  | 67.0   | 4.0                       | 2.0   | 3.7                     | 6.1   | SW                      | NW    | -             | -     | 2.4                  | 4.6   | 29.0                  | 35.0   |
| 9       | 30.0                 | 35.0  | 43.5                 | 44.0   | 34.0                | 41.0   | 30.0              | 34.0   | 74.0                  | 61.5   | -                         | -     | 0.8                     | 2.8   | NW                      | SE    | -             | -     | 2.2                  | 4.8   | 28.0                  | 36.0   |
| 10      | 30.0                 | 36.0  | 43.0                 | 44.0   | 35.0                | 40.0   | 31.0              | 35.0   | 74.5                  | 71.0   | 2.0                       | 4.0   | 2.3                     | 6.6   | NW                      | SW    | -             | -     | 2.3                  | 4.5   | 28.6                  | 35.0   |
| 11      | 31.0                 | 34.0  | 41.5                 | 44.0   | 33.0                | 40.0   | 30.0              | 35.0   | 79.5                  | 71.0   | -                         | 4.0   | 0.8                     | 3.7   | SW                      | SW    | -             | -     | 2.4                  | 4.4   | 29.0                  | 36.0   |
| 12      | 28.0                 | 33.5  | 42.0                 | 43.0   | 33.0                | 40.0   | 29.0              | 34.0   | 73.5                  | 66.0   | -                         | -     | 2.1                     | 5.6   | SW                      | SW    | -             | -     | 2.2                  | 4.5   | 28.0                  | 36.0   |
| 13      | 28.0                 | 30.0  | 41.5                 | 40.5   | 30.0                | 38.5   | 27.0              | 36.0   | 78.0                  | 84.0   | 2.0                       | 2.0   | 3.1                     | 6.2   | SW                      | SW    | -             | -     | 1.9                  | 4.0   | 26.0                  | 33.5   |
| 14      | 24.0                 | 28.0  | 40.0                 | 40.0   | 28.0                | 37.0   | 26.0              | 33.0   | 85.0                  | 75.0   | -                         | -     | 2.9                     | 3.4   | SW                      | NW    | 3.2           | -     | 1.5                  | 4.0   | 27.0                  | 32.5   |
| 15      | 23.0                 | 27.0  | 38.0                 | 40.0   | 27.0                | 38.0   | 25.0              | 33.0   | 81.0                  | 70.0   | 2.0                       | 2.0   | 3.0                     | 5.3   | NW                      | NW    | -             | -     | 1.3                  | 4.2   | 25.0                  | 34.0   |
| 16      | 23.0                 | 34.0  | 39.0                 | 41.0   | 33.5                | 39.0   | 30.0              | 34.0   | 77.0                  | 70.5   | -                         | 2.0   | 1.3                     | 6.0   | SE                      | SE    | -             | -     | 2.0                  | 4.4   | 28.0                  | 34.5   |
| 17      | 28.5                 | 35.0  | 40.0                 | 43.5   | 35.0                | 40.0   | 31.0              | 35.0   | 74.5                  | 71.0   | 2.0                       | -     | 2.0                     | 4.6   | SW                      | SE    | -             | -     | 2.1                  | 4.5   | 28.0                  | 36.5   |
| 18      | 28.5                 | 34.0  | 42.5                 | 43.0   | 36.0                | 40.0   | 31.0              | 35.0   | 69.0                  | 71.0   | 4.0                       | 2.0   | 2.1                     | 7.4   | SW                      | SE    | -             | -     | 2.1                  | 4.2   | 28.0                  | 34.5   |
| 19      | 29.0                 | 35.0  | 41.5                 | 43.5   | 36.0                | 42.0   | 31.0              | 35.0   | 69.0                  | 62.0   | -                         | -     | 2.0                     | 3.6   | SW                      | SE    | -             | -     | 2.2                  | 4.5   | 28.5                  | 38.0   |
| 20      | 32.0                 | 34.0  | 43.0                 | 43.5   | 36.0                | 41.0   | 33.0              | 35.5   | 81.0                  | 65.0   | -                         | -     | 0.7                     | 6.0   | SW                      | SW    | -             | -     | 2.7                  | 4.6   | 31.0                  | 38.0   |
| 21      | 27.0                 | 31.5  | 42.0                 | 41.0   | 31.0                | 40.0   | 28.0              | 35.0   | 78.0                  | 71.0   | -                         | -     | 1.8                     | 4.4   | SW                      | SW    | 1.6           | -     | 2.2                  | 4.4   | 28.0                  | 37.0   |
| 22      | 31.0                 | 30.0  | 41.0                 | 43.0   | 35.0                | 42.0   | 31.0              | 36.0   | 74.5                  | 67.0   | 2.0                       | -     | 1.7                     | 4.7   | SW                      | SW    | -             | -     | 2.8                  | 4.5   | 30.0                  | 37.0   |
| 23      | 30.5                 | 33.0  | 43.0                 | 44.0   | 35.0                | 41.5   | 31.5              | 36.0   | 77.5                  | 70.0   | 2.0                       | -     | 2.7                     | 5.3   | SW                      | SW    | -             | -     | 2.7                  | 4.4   | 30.0                  | 37.0   |
| 24      | 31.5                 | 36.0  | 43.0                 | 43.0   | 35.0                | 41.0   | 32.0              | 36.0   | 80.5                  | 71.5   | 4.0                       | 2.0   | 2.5                     | 6.0   | SW                      | SW    | -             | -     | 3.0                  | 4.2   | 31.0                  | 36.0   |
| 25      | 31.5                 | 34.0  | 42.0                 | 44.5   | 35.0                | 40.0   | 31.0              | 35.0   | 74.5                  | 71.0   | -                         | 2.0   | 2.3                     | 4.5   | NW                      | NW    | -             | -     | 2.8                  | 4.5   | 29.0                  | 37.0   |
| 26      | 25.0                 | 33.0  | 41.0                 | 42.0   | 33.0                | 39.5   | 30.0              | 35.0   | 79.5                  | 74.0   | -                         | -     | 2.9                     | 2.9   | NW                      | NW    | 9.6           | -     | 1.6                  | 4.2   | 29.0                  | 37.0   |
| 27      | 30.0                 | 35.0  | 41.0                 | 41.5   | 35.0                | 39.5   | 31.0              | 34.5   | 74.5                  | 71.0   | -                         | -     | 2.2                     | 5.7   | SW                      | SW    | -             | -     | 3.2                  | 4.4   | 29.5                  | 38.0   |
| 28      | 31.0                 | 32.0  | 40.5                 | 43.0   | 37.0                | 41.5   | 33.0              | 36.5   | 75.0                  | 72.0   | 2.0                       | 2.0   | 1.0                     | 6.8   | SW                      | NW    | -             | -     | 2.8                  | 4.5   | 28.0                  | 38.0   |
| 29      | 32.0                 | 32.0  | 43.0                 | 44.0   | 36.0                | 39.5   | 33.0              | 35.0   | 81.0                  | 74.0   | 2.0                       | 2.0   | 2.4                     | 5.1   | NE                      | SW    | -             | -     | 3.0                  | 4.5   | 32.0                  | 37.0   |
| 30      | 29.0                 | 32.0  | 43.0                 | 44.0   | 33.0                | 42.0   | 30.0              | 36.0   | 79.5                  | 67.0   | -                         | -     | 2.1                     | 5.1   | NE                      | SW    | 1.8           | -     | 2.6                  | 5.0   | 30.0                  | 37.0   |
| 31      | 26.0                 |       | 43.0                 |        | 29.0                |        | 26.0              |        | 78.0                  |        | -                         |       | 2.9                     |       | SW                      |       | 0.4           |       | 2.8                  |       | 27.0                  |        |
| Total   | 883.0                | 994.0 | 1272.5               | 1318.0 | 1030.5              | 1227.0 | 924.0             | 1069.5 | 2385.0                | 2178.5 | 40.0                      | 42.0  | 70.2                    | 157.1 |                         |       | 23.6          | -     | 71.4                 | 134.9 | 881.1                 | 1101.5 |
| Average | 28.5                 | 32.1  | 41.0                 | 42.5   | 33.2                | 39.6   | 29.8              | 34.5   | 76.9                  | 70.3   | 1.3                       | 1.4   | 2.3                     | 5.1   |                         |       |               |       |                      |       | 28.4                  | 35.5   |
|         | 30.3                 |       | 41.8                 |        | 36.4                |        | 32.2              |        | 73.6                  |        | 1.3                       |       | 3.7                     |       |                         |       | 23.6          |       | 206.3                |       | 32.0                  |        |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| June 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|-----------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day       | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPoPM     |                      | 32.0  |                      | 39.0   |                     | ..    |                   | ..    |                       | 51.0   |                           | 2.0   |                         | -     |                         | SW    |               | -     |                      | 6.0   |                       | 35.0   |
| 1         | 32.0                 | 30.0  | 41.0                 | 43.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 3.3                     | 9.6   | NW                      | SW    | -             | -     | 2.0                  | 7.0   | 28.0                  | 36.0   |
| 2         | 30.0                 | 30.0  | 39.0                 | 37.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.3                     | 11.0  | NW                      | NW    | 15.8          | -     | 3.0                  | 2.0   | 27.0                  | 30.0   |
| 3         | 31.0                 | 31.0  | 33.0                 | 43.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 3.2                     | 11.7  | NW                      | SW    | 4.8           | -     | 2.0                  | 5.0   | 30.0                  | 36.0   |
| 4         | 20.0                 | 30.0  | 35.0                 | 42.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.3                     | 13.9  | SW                      | NW    | -             | -     | 3.0                  | 5.0   | 29.5                  | 35.0   |
| 5         | 30.0                 | 30.0  | 33.0                 | 40.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 6.2                     | 9.9   | SW                      | NW    | -             | -     | 3.0                  | 6.0   | 31.0                  | 36.0   |
| 6         | 29.0                 | 31.0  | 35.0                 | 40.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 6.5                     | 10.2  | SW                      | NW    | -             | -     | 3.0                  | 5.0   | 30.0                  | 33.0   |
| 7         | 31.0                 | 33.0  | 35.0                 | 42.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 3.2                     | 5.5   | SW                      | NW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 37.0   |
| 8         | 30.0                 | 30.0  | 39.0                 | 37.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.6                     | 7.0   | NE                      | NW    | 3.2           | -     | 2.0                  | 3.0   | 28.0                  | 31.0   |
| 9         | 29.0                 | 30.0  | 30.0                 | 40.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 1.5                     | 5.7   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 36.0   |
| 10        | 31.0                 | 30.0  | 40.0                 | 34.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 5.8                     | 7.2   | SE                      | SW    | -             | -     | 3.0                  | 4.0   | 29.0                  | 35.0   |
| 11        | 30.0                 | 20.5  | 34.0                 | 38.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 8.3                     | 11.1  | SE                      | SW    | -             | 34.8  | 3.0                  | 30.0  | 28.0                  | 29.0   |
| 12        | 22.0                 | 18.5  | 33.0                 | 33.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 3.2                     | 10.9  | SW                      | SW    | 36.0          | -     | 1.0                  | 2.0   | 26.0                  | 33.0   |
| 13        | 20.0                 | 19.0  | 31.0                 | 34.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.6                     | 8.4   | SW                      | SW    | -             | -     | 3.0                  | 2.0   | 27.0                  | 35.0   |
| 14        | 20.0                 | 21.0  | 34.0                 | 37.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 3.1                     | 7.8   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 37.0   |
| 15        | 22.0                 | 21.0  | 35.0                 | 36.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 3.6                     | 8.1   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 30.0                  | 35.0   |
| 16        | 18.0                 | 20.0  | 33.0                 | 36.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 0.7                     | 8.8   | NW                      | SE    | 13.6          | -     | 4.0                  | 2.0   | 28.0                  | 34.0   |
| 17        | 20.0                 | 20.0  | 35.0                 | 39.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.2                     | 7.7   | SW                      | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 37.0   |
| 18        | 21.0                 | 22.0  | 39.0                 | 43.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 6.0                     | 9.5   | SW                      | SE    | -             | -     | 3.0                  | 5.0   | 29.0                  | 37.0   |
| 19        | 20.0                 | 21.0  | 39.0                 | 39.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 7.2                     | 6.3   | SW                      | NE    | 7.8           | -     | 3.0                  | 4.0   | 26.5                  | 37.0   |
| 20        | 20.0                 | 22.0  | 37.0                 | 43.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.9                     | 10.7  | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 28.5                  | 35.0   |
| 21        | 18.0                 | 14.0  | 41.0                 | 30.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 5.4                     | 4.0   | NE                      | NW    | 21.6          | -     | 6.0                  | 2.0   | 28.0                  | 34.0   |
| 22        | 14.0                 | 17.0  | 31.0                 | 34.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 5.4                     | 9.2   | NE                      | NW    | 22.2          | -     | 6.0                  | 3.0   | 27.5                  | 34.0   |
| 23        | 18.0                 | 18.0  | 33.0                 | 36.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 5.1                     | 10.0  | NE                      | NE    | -             | -     | 2.0                  | 3.0   | 27.0                  | 36.0   |
| 24        | 19.0                 | 20.0  | 35.0                 | 35.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.1                     | 7.2   | NW                      | NE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 36.0   |
| 25        | 18.0                 | 17.0  | 34.0                 | 31.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 7.6                     | 7.9   | NW                      | NE    | 37.2          | -     | 28.0                 | 2.0   | 25.5                  | 32.0   |
| 26        | 18.0                 | 18.0  | 30.0                 | 30.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 3.8                     | 4.2   | NW                      | NE    | -             | -     | 2.0                  | 8.0   | 27.0                  | 29.5   |
| 27        | 17.0                 | 17.0  | 29.0                 | 30.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.0                     | 4.1   | NE                      | NE    | 7.2           | -     | 2.0                  | 12.0  | 27.0                  | 30.5   |
| 28        | 17.0                 | 17.0  | 30.0                 | 29.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.7                     | 7.7   | NE                      | NW    | 25.6          | -     | 2.0                  | 2.0   | 26.5                  | 28.0   |
| 29        | 16.0                 | 15.0  | 29.0                 | 28.0   | ..                  | ..    | ..                | ..    | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.8                     | 10.1  | SW                      | NE    | 2.2           | 21.0  | 2.0                  | 20.0  | 26.0                  | 29.0   |
| 30        | 16.0                 |       | 28.0                 |        | ..                  |       | ..                |       | 51.0                  |        | 2.0                       |       | 4.2                     |       | SW                      |       | 36.0          | 55.8  | 8.0                  |       | 26.0                  |        |
| Total     | 677.0                | 695.0 | 1030.0               | 1098.0 | .. *                | .. *  | .. *              | .. *  | 1530.0                | 1530.0 | 60.0                      | 60.0  | 137.8                   | 245.4 |                         |       | 233.2         |       | 111.0                | 166.0 | 839.0                 | 1018.0 |
| Average   | 22.6                 | 23.2  | 34.3                 | 36.6   | .. *                | .. *  | .. *              | .. *  | 51.0                  | 51.0   | 2.0                       | 2.0   | 4.6                     | 8.2   |                         |       |               |       |                      |       | 28.0                  | 33.9   |
|           | 22.9                 |       | 35.5                 |        | 0.0 *               |       | 0.0 *             |       | 51.0                  |        | 2.0                       |       | 6.4                     |       |                         |       | 289.0         |       | 277.0                |       | 31.0                  |        |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur

| July 2017 |                      |       |                      |       |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-----------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day       | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM       |                      | -     |                      | -     |                     | ..    |                   | ..    |                       | -     |                           | -     |                         | -     |                         | SW    |               | -     |                      | -     |                       | -     |
| 1         | 15.0                 | 15.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 7.4                     | 7.7   | SW                      | SW    | 34.2          | -     | 8.0                  | 2.0   | 26.0                  | 29.0  |
| 2         | 14.0                 | 20.0  | 27.0                 | 28.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 6.7                     | 7.6   | NW                      | SW    | 0.8           | -     | 1.0                  | 4.0   | 25.0                  | 29.0  |
| 3         | 15.0                 | 15.0  | 28.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.9                     | 8.1   | SW                      | NW    | 7.6           | -     | 8.0                  | 2.0   | 25.0                  | 29.0  |
| 4         | 15.0                 | 15.0  | 28.0                 | 27.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.4                     | 4.7   | SW                      | SW    | 1.4           | 5.6   | 1.0                  | 2.0   | 25.0                  | 28.0  |
| 5         | 16.0                 | 15.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 7.3                     | 9.9   | NW                      | SW    | 5.6           | -     | 8.0                  | 6.0   | 25.5                  | 32.0  |
| 6         | 16.0                 | 18.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.5                     | 10.5  | NW                      | SW    | 1.2           | -     | 6.0                  | 3.0   | 27.0                  | 34.0  |
| 7         | 18.0                 | 18.0  | 33.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.4                     | 11.4  | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 34.5  |
| 8         | 20.0                 | 20.0  | 34.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.7                     | 10.1  | NW                      | NW    | -             | 0.4   | 2.0                  | 2.0   | 30.0                  | 32.5  |
| 9         | 20.0                 | 20.0  | 35.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.0                     | 9.2   | SW                      | NW    | 0.4           | 83.8  | 4.0                  | 2.0   | 38.5                  | 32.5  |
| 10        | 18.0                 | 16.0  | 33.0                 | 28.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.3                     | 10.6  | SW                      | SW    | 95.0          | -     | 60.0                 | 2.0   | 27.0                  | 27.0  |
| 11        | 16.0                 | 14.0  | 28.0                 | 28.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.6                     | 9.3   | NW                      | NW    | 1.2           | -     | 2.0                  | 2.0   | 24.5                  | 28.0  |
| 12        | 15.0                 | 15.0  | 28.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.3                     | 8.9   | SW                      | SW    | 31.8          | -     | 32.0                 | 4.0   | 25.0                  | 30.5  |
| 13        | 16.0                 | 16.0  | 29.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.8                     | 8.6   | NW                      | SW    | -             | -     | 2.0                  | 1.0   | 26.0                  | 32.0  |
| 14        | 18.0                 | 17.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.9                     | 7.7   | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 27.0                  | 33.0  |
| 15        | 18.0                 | 16.0  | 31.0                 | 36.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 10.7                    | 6.0   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 26.5                  | 34.0  |
| 16        | 16.0                 | 16.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.1                     | 10.3  | NW                      | SW    | 37.6          | -     | 38.0                 | 4.0   | 26.0                  | 29.5  |
| 17        | 16.0                 | 17.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.3                     | 4.0   | NW                      | NW    | 9.2           | -     | 2.0                  | 2.0   | 26.5                  | 29.0  |
| 18        | 15.0                 | 18.0  | 34.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 6.7                     | 8.3   | NE                      | SE    | 2.4           | 5.2   | 2.0                  | 8.0   | 27.5                  | 30.5  |
| 19        | 15.0                 | 16.0  | 35.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.1                     | 4.3   | NE                      | SE    | 12.8          | 5.6   | 12.0                 | 4.0   | 26.5                  | 29.5  |
| 20        | 25.0                 | 17.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.4                     | 9.8   | SW                      | SW    | -             | -     | 10.0                 | 3.0   | 26.0                  | 31.0  |
| 21        | 24.0                 | 17.0  | 32.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.6                     | 9.8   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 25.5                  | 32.0  |
| 22        | 26.0                 | 21.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 9.4   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 31.0  |
| 23        | 20.0                 | 17.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.5                     | 8.9   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 28.5  |
| 24        | 16.0                 | 19.0  | 27.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.5                     | 5.4   | NW                      | NW    | 7.4           | 1.0   | 3.0                  | 2.0   | 25.0                  | 28.0  |
| 25        | 19.0                 | 15.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 6.4                     | 10.8  | SW                      | SW    | 1.0           | -     | 1.0                  | 2.0   | 25.0                  | 30.0  |
| 26        | 15.0                 | 16.0  | 28.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 6.0                     | 10.9  | NW                      | SW    | -             | 0.8   | 1.0                  | 4.0   | 24.0                  | 26.0  |
| 27        | 16.0                 | 16.0  | 29.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 7.1                     | 9.6   | NW                      | SW    | 1.6           | -     | 2.0                  | 2.0   | 25.0                  | 30.5  |
| 28        | 16.0                 | 15.0  | 28.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.1                     | 7.4   | SW                      | NW    | -             | -     | 1.0                  | 1.0   | 26.5                  | 32.0  |
| 29        | 17.0                 | 18.0  | 29.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.5                     | 4.3   | NW                      | SW    | -             | -     | 2.0                  | 6.0   | 28.5                  | 34.5  |
| 30        | 18.0                 | 18.0  | 32.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.9                     | 5.2   | NW                      | NW    | -             | 3.0   | 1.0                  | 3.0   | 27.5                  | 30.0  |
| 31        | 17.0                 |       | 31.0                 |       | ..                  |       | ..                |       | ..                    |       | 2.0                       |       | 2.5                     |       | SW                      |       | 50.6          | 105.4 | 30.0                 |       | 27.0                  |       |
| Total     | 541.0                | 506.0 | 938.0                | 927.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | - *   | 62.0                      | 60.0  | 146.3                   | 248.7 |                         |       | 301.8         |       | 247.0                | 88.0  | 825.5                 | 917.0 |
| Average   | 17.5                 | 16.3  | 30.3                 | 29.9  | .. *                | .. *  | .. *              | .. *  | .. *                  | - *   | 2.0                       | 1.9   | 4.7                     | 8.0   |                         |       |               |       |                      |       | 26.6                  | 29.6  |
|           | 16.9                 |       | 30.1                 |       | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 2.0                       |       | 6.4                     |       |                         |       | 407.2         |       | 335.0                |       | 28.1                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| August 2017 |                      |       |                      |       |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|             | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day         | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM         |                      | 18.0  |                      | 32.0  |                     | ..    |                   | ..    |                       | ..    |                           | 2.0   |                         | 6.2   |                         | SW    |               | -     |                      | -     |                       | -     |
| 1           | 17.0                 | 17.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.1                     | 9.7   | NW                      | NW    | 1.2           | -     | 4.0                  | 4.0   | 27.0                  | 32.5  |
| 2           | 18.0                 | 17.0  | 30.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 9.6   | NW                      | NW    | -             | 1.0   | 3.7                  | 2.0   | 28.0                  | 33.5  |
| 3           | 17.0                 | 18.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.8                     | 9.6   | NW                      | NW    | 1.0           | -     | 2.0                  | 2.0   | 28.5                  | 35.0  |
| 4           | 19.0                 | 18.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.0                     | 9.5   | NW                      | NW    | 1.2           | -     | 2.0                  | 2.0   | 27.5                  | 34.0  |
| 5           | 19.0                 | 17.0  | 32.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.2                     | 7.4   | NW                      | NW    | 0.4           | -     | 1.0                  | 2.0   | 26.5                  | 30.5  |
| 6           | 18.0                 | 15.0  | 33.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.2                     | 7.7   | NW                      | SW    | 20.8          | -     | 46.0                 | 3.0   | 25.5                  | 31.5  |
| 7           | 16.0                 | 16.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.9                     | 4.8   | SW                      | SW    | 3.0           | -     | 8.0                  | 35.0  | 26.0                  | 30.5  |
| 8           | 16.0                 | 17.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 7.1   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 27.0                  | 32.0  |
| 9           | 16.0                 | 16.0  | 31.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.5                     | 8.3   | SW                      | SW    | 0.6           | -     | 2.0                  | 4.0   | 26.0                  | 32.5  |
| 10          | 16.0                 | 16.0  | 31.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.6                     | 10.0  | SW                      | SW    | 3.0           | -     | 2.0                  | 2.0   | 25.5                  | 30.5  |
| 11          | 16.0                 | 16.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.5                     | 11.7  | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 27.0                  | 33.0  |
| 12          | 17.0                 | 18.0  | 31.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.6                     | 10.0  | SW                      | SW    | -             | 16.2  | 1.5                  | 2.0   | 27.0                  | 28.5  |
| 13          | 14.0                 | 17.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.0                     | 6.6   | SW                      | SW    | 18.2          | -     | 20.0                 | 1.0   | 27.0                  | 31.5  |
| 14          | 17.0                 | 16.0  | 29.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.8                     | 5.9   | SW                      | SW    | 17.8          | 35.4  | 10.0                 | 30.0  | 25.5                  | 29.0  |
| 15          | 16.0                 | 16.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.3                     | 7.5   | NW                      | NW    | 38.4          | -     | 2.0                  | 2.0   | 27.0                  | 34.0  |
| 16          | 17.0                 | 18.0  | 30.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.0                     | 6.5   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 27.5                  | 33.0  |
| 17          | 17.0                 | 18.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.4                     | 4.9   | NW                      | NW    | 1.8           | -     | 1.0                  | 4.0   | 26.0                  | 29.0  |
| 18          | 16.0                 | 16.0  | 29.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.2                     | 2.7   | NW                      | NW    | 0.4           | -     | 4.0                  | 2.0   | 27.0                  | 31.5  |
| 19          | 16.0                 | 17.0  | 31.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.2                     | 9.5   | SE                      | SW    | 26.6          | -     | 16.0                 | 2.0   | 27.0                  | 30.0  |
| 20          | 16.0                 | 16.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 6.5                     | 7.5   | SE                      | SE    | -             | 10.6  | 2.0                  | 8.0   | 27.0                  | 29.5  |
| 21          | 16.0                 | 17.0  | 30.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.9                     | 4.5   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 34.5  |
| 22          | 15.0                 | 17.0  | 30.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.3                     | 5.5   | NE                      | NE    | 16.8          | -     | 14.0                 | 2.0   | 28.0                  | 39.0  |
| 23          | 16.0                 | 18.0  | 33.0                 | 38.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 5.7   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 35.0  |
| 24          | 15.0                 | 16.0  | 32.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.4                     | 6.1   | NE                      | NE    | 9.6           | -     | 6.0                  | 1.0   | 26.5                  | 34.0  |
| 25          | 16.0                 | 16.0  | 34.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.5                     | 2.9   | NE                      | NE    | 11.6          | -     | 2.0                  | 1.5   | 26.0                  | 35.0  |
| 26          | 15.0                 | 18.0  | 29.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.9                     | 3.9   | SE                      | SE    | 18.8          | 1.0   | 30.0                 | 2.0   | 27.0                  | 31.5  |
| 27          | 17.0                 | 18.0  | 30.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 3.4   | SE                      | SW    | 1.0           | -     | 1.0                  | 6.0   | 28.0                  | 34.5  |
| 28          | 18.0                 | 17.0  | 32.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.5                     | 1.1   | SW                      | SW    | 11.0          | -     | 8.0                  | 20.0  | 27.0                  | 28.5  |
| 29          | 16.0                 | 17.0  | 29.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 5.6                     | 9.1   | SW                      | SW    | 32.0          | 0.2   | 14.0                 | 4.0   | 26.0                  | 32.5  |
| 30          | 17.0                 | 18.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.2                     | 4.2   | SW                      | SE    | 5.2           | -     | 4.0                  | 4.0   | 26.5                  | 35.5  |
| 31          | 17.0                 |       | 32.0                 |       | ..                  |       | ..                |       | ..                    |       | 2.0                       |       | 1.3                     |       | SE                      |       | -             |       | 2.0                  |       | 29.0                  |       |
| Total       | 512.0                | 525.0 | 948.0                | 977.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 62.0                      | 62.0  | 98.2                    | 209.1 |                         |       | 240.4         | 64.4  | 219.2                | 160.5 | 834.5                 | 971.5 |
| Average     | 16.5                 | 16.9  | 30.6                 | 31.5  | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 2.0                       | 2.0   | 3.2                     | 6.7   |                         |       |               |       |                      |       | 26.9                  | 31.3  |
|             | 16.7                 |       | 31.0                 |       | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 2.0                       |       | 5.0                     |       |                         |       | 304.8         |       | 379.7                |       | 29.1                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| September 2017 |                      |       |                      |       |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|----------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|                | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day            | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM            |                      | -     |                      | -     |                     | ..    |                   | ..    |                       | ..    |                           | -     |                         | -     |                         | SE    |               | -     |                      | -     |                       | -     |
| 1              | 17.0                 | 18.0  | 31.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.4                     | 5.7   | SW                      | NW    | 1.2           | -     | 3.0                  | 2.0   | 28.5                  | 33.0  |
| 2              | 16.0                 | 17.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.9                     | 4.9   | SW                      | SW    | -             | -     | 2.0                  | 16.0  | 28.5                  | 29.5  |
| 3              | 14.0                 | 18.0  | 30.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.1                     | 6.1   | NW                      | NW    | 17.0          | -     | 2.0                  | 2.0   | 27.0                  | 29.0  |
| 4              | 15.0                 | 21.0  | 32.0                 | 38.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.6                     | 5.8   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 28.5                  | 35.0  |
| 5              | 15.0                 | 20.0  | 30.0                 | 40.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 4.3   | NW                      | NW    | 2.8           | -     | 2.0                  | 2.0   | 28.5                  | 37.0  |
| 6              | 18.0                 | 20.0  | 33.0                 | 41.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 3.3   | NW                      | SW    | -             | -     | 4.0                  | 4.0   | 29.5                  | 36.0  |
| 7              | 16.0                 | 19.0  | 32.0                 | 37.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.4                     | 4.9   | NW                      | NW    | 2.2           | -     | 2.0                  | 2.0   | 27.5                  | 35.5  |
| 8              | 19.0                 | 20.0  | 34.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 5.2   | SW                      | NW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 34.5  |
| 9              | 19.0                 | 19.0  | 33.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 4.6   | NW                      | SE    | 1.8           | -     | 1.5                  | 3.0   | 28.5                  | 33.5  |
| 10             | 17.0                 | 19.0  | 32.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.6                     | 2.4   | SW                      | NW    | 23.6          | -     | 22.0                 | 2.0   | 26.5                  | 37.0  |
| 11             | 16.0                 | 18.0  | 33.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 4.2   | NW                      | NE    | -             | -     | 2.0                  | 4.0   | 29.5                  | 30.5  |
| 12             | 18.0                 | 18.0  | 32.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.4                     | 4.0   | SW                      | SW    | 22.4          | -     | 4.0                  | 2.0   | 28.0                  | 32.0  |
| 13             | 17.0                 | 18.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.3                     | 6.2   | SW                      | SW    | -             | 19.2  | 2.0                  | 18.0  | 31.5                  | 37.0  |
| 14             | 17.0                 | 17.0  | 32.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.0                     | 7.2   | SW                      | SE    | 19.2          | -     | 2.5                  | 4.0   | 26.5                  | 33.5  |
| 15             | 15.0                 | 18.5  | 30.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.8                     | 4.7   | SW                      | NW    | -             | -     | 3.5                  | 4.5   | 26.0                  | 33.5  |
| 16             | 18.0                 | 18.5  | 32.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 6.1   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 35.0  |
| 17             | 18.0                 | 18.0  | 32.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.5                     | 4.9   | SW                      | NW    | -             | 26.6  | 2.0                  | 22.0  | 27.5                  | 30.5  |
| 18             | 17.0                 | 17.0  | 32.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.8                     | 6.6   | NW                      | SW    | 26.6          | 1.2   | 1.0                  | 2.0   | 26.0                  | 30.5  |
| 19             | 17.0                 | 19.0  | 33.0                 | 36.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 4.2                     | 4.5   | NW                      | SW    | 5.4           | 1.4   | 6.0                  | 1.5   | 25.5                  | 27.0  |
| 20             | 15.0                 | 18.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.9                     | 5.3   | SW                      | SW    | 6.6           | -     | 6.0                  | 22.0  | 24.5                  | 25.5  |
| 21             | 14.0                 | 17.0  | 29.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.8                     | 5.0   | SW                      | NW    | 20.8          | 28.2  | 1.0                  | 22.0  | 25.0                  | 27.5  |
| 22             | 15.0                 | 19.0  | 28.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.8                     | 6.8   | SW                      | SW    | 28.8          | -     | 1.0                  | 4.0   | 26.0                  | 32.0  |
| 23             | 16.0                 | 17.0  | 29.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.0                     | 3.3   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 26.5                  | 34.5  |
| 24             | 16.0                 | 18.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 4.3   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 35.0  |
| 25             | 19.0                 | 19.0  | 31.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 4.7   | SW                      | NW    | -             | -     | 2.0                  | 2.0   | 28.5                  | 36.0  |
| 26             | 20.0                 | 20.0  | 34.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 4.2   | SE                      | SE    | -             | -     | 2.0                  | 3.0   | 29.5                  | 36.5  |
| 27             | 20.0                 | 20.0  | 32.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 5.3   | NE                      | NW    | -             | 52.8  | 4.0                  | 40.0  | 29.5                  | 31.5  |
| 28             | 15.0                 | 17.0  | 32.0                 | 40.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.4                     | 3.9   | SE                      | NW    | 0.8           | -     | 2.0                  | 4.0   | 27.0                  | 34.5  |
| 29             | 17.0                 | 17.0  | 32.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 1.9                     | 2.2   | NW                      | NW    | 44.4          | -     | 38.0                 | 2.0   | 26.5                  | 34.5  |
| 30             | 16.0                 |       | 31.0                 |       | ..                  |       | ..                |       | ..                    |       | 2.0                       |       | 2.0                     |       | NW                      |       | 35.4          |       | 36.0                 |       | 26.0                  |       |
| Total          | 502.0                | 535.0 | 939.0                | 997.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 60.0                      | 58.0  | 51.0                    | 140.6 |                         |       | 259.0         | 129.4 | 162.5                | 202.0 | 827.5                 | 957.0 |
| Average        | 16.7                 | 17.8  | 31.3                 | 33.2  | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 2.0                       | 1.9   | 1.7                     | 4.7   |                         |       |               |       |                      |       | 27.6                  | 31.9  |
|                | 17.3                 |       | 32.3                 |       | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 2.0                       |       | 3.2                     |       |                         |       | 388.4         |       | 364.5                |       | 29.7                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| October 2017 |                      |         |                      |          |                     |       |                   |       |                       |       |                           |        |                         |         |                         |       |               |       |                      |        |                       |         |
|--------------|----------------------|---------|----------------------|----------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|--------|-------------------------|---------|-------------------------|-------|---------------|-------|----------------------|--------|-----------------------|---------|
|              | Min Temperature (°C) |         | Max Temperature (°C) |          | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |        | Av. Wind Speed (kms/hr) |         | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |         |
| Day          | 08:30                | 17:30   | 08:30                | 17:30    | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30  | 08:30                   | 17:30   | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30   |
| LPoPM        |                      |         |                      |          |                     |       |                   |       |                       |       |                           |        |                         |         |                         |       |               |       |                      |        |                       |         |
| 1            | 26.0                 | 26.0    | 28.0                 | 30.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.8                     | 2.8     | SE                      | SW    | 0.4           | -     | 2.0                  | 5.0    | 26.0                  | 29.5    |
| 2            | 25.0                 | 26.0    | 29.0                 | 33.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.9                     | 2.6     | NW                      | NW    | 6.2           | -     | 1.0                  | 1.0    | 25.0                  | 30.0    |
| 3            | 25.0                 | 27.0    | 31.0                 | 31.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.9                     | 3.4     | NW                      | NE    | -             | -     | 2.0                  | 2.0    | 26.5                  | 33.5    |
| 4            | 25.0                 | 26.0    | 30.0                 | 36.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.4                     | 3.6     | SE                      | SE    | -             | -     | 2.0                  | 1.5    | 27.0                  | 32.5    |
| 5            | 25.0                 | 26.0    | 32.0                 | 33.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.1                     | 5.0     | SE                      | NE    | -             | -     | 1.0                  | 4.0    | 27.0                  | 32.0    |
| 6            | 25.0                 | 27.0    | 28.0                 | 31.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.0                     | 5.6     | NE                      | SE    | -             | 32.6  | 2.0                  | 2.8    | 26.0                  | 31.0    |
| 7            | 25.0                 | 27.0    | 29.0                 | 31.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.5                     | 6.0     | SE                      | SE    | 40.4          | -     | 4.0                  | 2.0    | 26.0                  | 31.5    |
| 8            | 25.0                 | 27.0    | 30.0                 | 30.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.2                     | 3.9     | SE                      | SE    | -             | -     | 3.0                  | 2.0    | 27.0                  | 31.5    |
| 9            | 25.0                 | 25.0    | 29.0                 | 30.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.8                     | 4.3     | NE                      | NW    | -             | -     | 2.0                  | 2.0    | 26.5                  | 32.0    |
| 10           | 25.0                 | 25.5    | 31.0                 | 36.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.3                     | 5.9     | SE                      | NW    | -             | 1.8   | 2.0                  | 2.0    | 27.0                  | 29.5    |
| 11           | 25.0                 | 26.0    | 32.0                 | 32.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.3                     | 4.5     | NW                      | NE    | -             | -     | 2.0                  | 2.0    | 26.0                  | 33.0    |
| 12           | 25.0                 | 28.0    | 30.0                 | 34.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.8                     | 3.8     | NW                      | NE    | -             | -     | 2.0                  | 2.0    | 27.5                  | 35.0    |
| 13           | 24.0                 | 26.0    | 32.0                 | 33.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.5                     | 3.9     | SE                      | NW    | -             | -     | 3.5                  | 4.0    | 29.5                  | 35.0    |
| 14           | 27.5                 | 30.0    | 32.0                 | 34.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.4                     | 3.8     | NW                      | SE    | -             | 1.2   | 1.0                  | 2.0    | 27.5                  | 33.0    |
| 15           | 29.0                 | 33.0    | 33.0                 | 40.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.2                     | 2.5     | NE                      | NE    | -             | -     | 2.0                  | 1.0    | 27.0                  | 34.5    |
| 16           | 28.0                 | 34.0    | 34.0                 | 40.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.3                     | 3.7     | SE                      | NW    | -             | -     | 2.0                  | 2.0    | 25.5                  | 34.5    |
| 17           | 25.0                 | 29.0    | 33.0                 | 39.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.9                     | 3.8     | NW                      | NE    | -             | -     | 2.0                  | 3.0    | 25.0                  | 33.5    |
| 18           | 24.0                 | 28.0    | 34.0                 | 38.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -      | 0.9                     | 3.5     | NE                      | NE    | -             | -     | 2.0                  | 2.0    | 23.0                  | 32.0    |
| 19           | 27.0                 | 29.0    | 31.0                 | 32.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.1                     | 4.9     | SE                      | SE    | -             | 7.8   | 1.0                  | 2.0    | 25.5                  | 30.0    |
| 20           | 28.0                 | 29.0    | 31.0                 | 31.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 1.3                     | 6.4     | NW                      | NE    | -             | -     | 2.0                  | 2.0    | 26.0                  | 32.0    |
| 21           | 28.0                 | 29.5    | 32.0                 | 38.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -      | 3.3                     | 6.2     | NE                      | NE    | -             | -     | 2.0                  | 2.0    | 26.0                  | 33.5    |
| 22           | 26.0                 | 27.0    | 30.0                 | 36.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | 2.0    | 0.2                     | 0.5     | NW                      | NW    | -             | -     | 2.0                  | 2.0    | 25.5                  | 30.5    |
| 23           | 28.0                 | 29.0    | 33.0                 | 33.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.6                     | 0.9     | NW                      | SW    | -             | -     | 2.0                  | 1.0    | 26.0                  | 33.0    |
| 24           | 25.0                 | 29.5    | 31.0                 | 39.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.5                     | 2.5     | SW                      | SW    | -             | -     | 2.0                  | 2.0    | 26.0                  | 34.0    |
| 25           | 24.0                 | 30.0    | 32.0                 | 39.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.5                     | 2.4     | NE                      | SW    | -             | -     | 2.0                  | 2.0    | 25.0                  | 33.0    |
| 26           | 25.0                 | 29.0    | 33.0                 | 38.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -      | 0.4                     | 2.4     | NE                      | SE    | -             | -     | 2.0                  | 2.0    | 24.0                  | 31.5    |
| 27           | 25.0                 | 27.0    | 32.0                 | 37.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.5                     | 2.7     | SE                      | SE    | -             | -     | 3.0                  | 2.0    | 24.0                  | 31.0    |
| 28           | 24.0                 | 29.0    | 30.0                 | 35.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -      | 0.3                     | 3.7     | SW                      | NE    | -             | -     | 2.0                  | 3.5    | 25.0                  | 30.5    |
| 29           | 23.0                 | 24.0    | 30.0                 | 38.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -      | 0.5                     | 2.2     | SW                      | SW    | -             | -     | 2.0                  | 3.0    | 23.0                  | 30.5    |
| 30           | 20.0                 | 24.0    | 30.0                 | 35.0     | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0    | 0.1                     | 2.4     | SW                      | NW    | -             | -     | 2.0                  | 2.0    | 20.5                  | 30.0    |
| 31           | 20.0                 |         | 29.0                 |          | ..                  |       | ..                |       | ..                    |       | 2.0                       |        | 0.4                     |         | NW                      |       | -             |       | 2.0                  |        | 21.0                  |         |
| Total        | 781.5                | 832.5 * | 961.0                | 1042.0 * | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 60.0                      | 50.0 * | 25.9                    | 109.8 * |                         |       | 47.0          | 43.4  | 63.5                 | 67.8 * | 792.5                 | 963.0 * |
| Average      | 25.2                 | 27.8 *  | 31.0                 | 34.7 *   | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 1.9                       | 1.7 *  | 0.8                     | 3.7 *   |                         |       |               |       |                      |        | 25.6                  | 32.1 *  |
|              | 26.5 *               |         | 32.9 *               |          | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 1.8 *                     |        | 2.2 *                   |         |                         |       | 90.4 *        |       | 131.3 *              |        | 28.8 *                |         |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| November 2017 |                      |       |                      |        |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 24.0  |                      | 34.0   |                     | ..    |                   | ..    |                       | ..    |                           | 2.0   |                         | 2.4   |                         | NW    |               | -     |                      | 1.0   |                       | 28.0  |
| 1             | 21.0                 | 27.0  | 30.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 2.4                     | 3.7   | SE                      | NE    | -             | -     | 2.0                  | 2.0   | 22.0                  | 28.5  |
| 2             | 21.0                 | 25.0  | 29.0                 | 34.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 4.3   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 21.5                  | 28.0  |
| 3             | 22.0                 | 24.0  | 28.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 4.6   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 28.0  |
| 4             | 21.0                 | 29.0  | 27.0                 | 39.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.3                     | 5.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 28.0  |
| 5             | 24.0                 | 29.0  | 28.0                 | 30.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.2                     | 4.2   | NE                      | NE    | -             | -     | 1.0                  | 3.0   | 19.5                  | 29.0  |
| 6             | 25.0                 | 30.0  | 30.0                 | 31.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.1                     | 4.1   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 21.0                  | 29.0  |
| 7             | 25.0                 | 30.0  | 32.0                 | 37.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.3                     | 3.7   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 22.0                  | 29.5  |
| 8             | 25.0                 | 30.0  | 31.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.4                     | 3.1   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.5                  | 29.0  |
| 9             | 16.0                 | 25.0  | 35.0                 | 37.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.3                     | 4.0   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 20.0                  | 28.0  |
| 10            | 18.0                 | 24.0  | 29.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | 2.0   | 0.5                     | 3.8   | NW                      | NE    | -             | -     | 2.0                  | 2.0   | 18.5                  | 27.0  |
| 11            | 17.0                 | 24.0  | 23.0                 | 34.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.6                     | 4.0   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 19.0                  | 27.0  |
| 12            | 16.0                 | 27.0  | 22.0                 | 32.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.5                     | 4.9   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 18.5                  | 26.5  |
| 13            | 18.0                 | 26.0  | 27.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.8                     | 4.3   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 20.0                  | 27.0  |
| 14            | 20.0                 | 25.0  | 30.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 5.3   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 21.0                  | 26.0  |
| 15            | 27.0                 | 29.0  | 31.0                 | 31.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.1                     | 5.3   | SE                      | NE    | -             | -     | 2.0                  | 2.0   | 24.5                  | 26.0  |
| 16            | 21.0                 | 26.0  | 22.0                 | 31.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.5                     | 5.8   | SE                      | NE    | -             | -     | 2.0                  | 1.0   | 23.0                  | 25.0  |
| 17            | 22.0                 | 24.0  | 23.0                 | 26.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 2.3                     | 4.4   | NE                      | NE    | 0.4           | -     | 2.0                  | 1.0   | 23.5                  | 25.0  |
| 18            | 21.0                 | 27.0  | 22.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 1.1                     | 4.0   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 22.5                  | 28.0  |
| 19            | 25.0                 | 25.0  | 30.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.3                     | 3.4   | SE                      | SE    | -             | -     | 2.0                  | 1.0   | 23.0                  | 28.5  |
| 20            | 24.0                 | 27.0  | 27.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.6                     | 3.8   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 23.0                  | 30.0  |
| 21            | 25.0                 | 26.0  | 33.0                 | 36.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 1.1                     | 3.5   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 21.0                  | 28.0  |
| 22            | 20.0                 | 26.0  | 29.0                 | 33.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.3                     | 3.6   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 21.0                  | 27.0  |
| 23            | 17.0                 | 24.0  | 29.0                 | 34.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.4                     | 4.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 19.0                  | 27.0  |
| 24            | 23.0                 | 25.0  | 28.0                 | 32.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.6                     | 6.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 18.0                  | 25.0  |
| 25            | 18.0                 | 22.0  | 26.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.2                     | 3.2   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 15.0                  | 25.0  |
| 26            | 15.0                 | 22.0  | 27.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.4   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 16.0                  | 25.5  |
| 27            | 16.0                 | 20.0  | 27.0                 | 35.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 3.4   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 15.0                  | 25.0  |
| 28            | 16.0                 | 21.0  | 27.0                 | 33.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 3.2   | SW                      | SW    | -             | -     | 2.0                  | 1.0   | 15.0                  | 25.0  |
| 29            | 14.0                 | 20.0  | 27.0                 | 33.0   | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.7   | NW                      | NW    | -             | -     | 2.0                  | 1.0   | 16.0                  | 25.0  |
| 30            | 14.0                 |       | 27.0                 |        | ..                  |       | ..                |       | ..                    |       | 2.0                       |       | 0.3                     |       | NW                      |       | -             |       | 2.0                  |       | 15.5                  |       |
| Total         | 607.0                | 763.0 | 836.0                | 1021.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 56.0                      | 16.0  | 22.3                    | 120.7 |                         |       | 0.4           | -     | 57.0                 | 50.0  | 594.5                 | 813.5 |
| Average       | 20.2                 | 25.4  | 27.9                 | 34.0   | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 1.9                       | 0.5   | 0.7                     | 4.0   |                         |       |               |       |                      |       | 19.8                  | 27.1  |
|               | 22.8                 |       | 31.0                 |        | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 1.2                       |       | 2.4                     |       |                         |       | 0.4           |       | 107.0                |       | 23.5                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| December 2017 |                      |       |                      |       |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 26.0  |                      | 37.0  |                     | ..    |                   | ..    |                       | ..    |                           | 2.0   |                         | 0.4   |                         | SE    |               | -     |                      | 2.0   |                       | 30.0  |
| 1             | 15.0                 | 19.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.3                     | 3.9   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 15.0                  | 24.5  |
| 2             | 14.0                 | 21.0  | 25.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.3                     | 3.6   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 15.0                  | 23.5  |
| 3             | 14.0                 | 20.0  | 25.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | 2.0   | 0.1                     | 3.2   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 4             | 19.0                 | 20.0  | 25.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.1                     | 3.0   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.0  |
| 5             | 13.0                 | 21.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 3.3                     | 3.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 14.5                  | 24.5  |
| 6             | 19.0                 | 20.0  | 26.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | 2.0   | 0.3                     | 3.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 15.0                  | 25.0  |
| 7             | 20.0                 | 21.0  | 26.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 4.2   | SE                      | NE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 25.0  |
| 8             | 17.0                 | 20.0  | 26.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.4                     | 6.3   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 17.0                  | 25.5  |
| 9             | 19.0                 | 28.0  | 28.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.6                     | 5.4   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 17.0                  | 25.5  |
| 10            | 21.0                 | 21.0  | 26.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 3.3   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 25.0  |
| 11            | 20.0                 | 21.0  | 25.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 3.0   | NW                      | NE    | -             | -     | 1.0                  | 1.5   | 15.5                  | 25.0  |
| 12            | 20.0                 | 21.0  | 26.0                 | 35.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.2                     | 2.1   | NW                      | NE    | -             | -     | 1.5                  | 2.0   | 15.0                  | 25.0  |
| 13            | 19.0                 | 21.0  | 25.0                 | 34.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.1                     | 2.5   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 15.5                  | 26.0  |
| 14            | 20.0                 | 22.0  | 25.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.2                     | 4.1   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 16.5                  | 25.5  |
| 15            | 20.0                 | 21.0  | 27.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.6                     | 2.9   | SE                      | NE    | -             | -     | 2.0                  | 1.0   | 16.0                  | 26.0  |
| 16            | 20.0                 | 21.0  | 28.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.8   | SE                      | NE    | -             | -     | 1.0                  | 1.0   | 16.5                  | 26.5  |
| 17            | 19.0                 | 20.0  | 28.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 5.5   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 16.5                  | 24.0  |
| 18            | 18.0                 | 21.0  | 27.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 6.0                       | -     | 0.6                     | 5.2   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 15.0                  | 22.5  |
| 19            | 12.0                 | 19.0  | 25.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.3                     | 2.7   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 12.0                  | 23.0  |
| 20            | 13.0                 | 17.0  | 25.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.1                     | 2.7   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 12.5                  | 23.0  |
| 21            | 13.0                 | 17.0  | 25.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 2.9   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 13.5                  | 23.0  |
| 22            | 14.0                 | 17.0  | 26.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.2                     | 3.5   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.0  |
| 23            | 14.0                 | 19.0  | 25.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 3.4   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.0  |
| 24            | 16.0                 | 19.0  | 25.0                 | 25.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.5                     | 1.5   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 16.5                  | 24.0  |
| 25            | 18.0                 | 19.0  | 24.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.2                     | 2.3   | SE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 24.5  |
| 26            | 18.0                 | 19.0  | 29.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.4                     | 2.9   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.5                  | 23.0  |
| 27            | 14.0                 | 17.0  | 31.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 1.5                     | 0.3   | NE                      | NW    | -             | -     | 2.0                  | 1.0   | 11.5                  | 22.0  |
| 28            | 13.0                 | 18.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 1.7                     | 2.8   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 13.0                  | 23.0  |
| 29            | 16.0                 | 17.0  | 24.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.6                     | 0.6   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 13.0                  | 22.0  |
| 30            | 18.0                 | 18.0  | 22.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 1.7                     | 0.3   | NE                      | NW    | -             | -     | 2.0                  | 1.0   | 13.0                  | 21.0  |
| 31            | 19.0                 |       | 30.0                 |       | ..                  |       | ..                |       | ..                    |       | 2.0                       |       | 1.0                     |       | NE                      |       | -             |       | 2.0                  |       | 13.5                  |       |
| Total         | 525.0                | 621.0 | 819.0                | 989.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 50.0                      | 14.0  | 16.0                    | 93.3  |                         |       | -             | -     | 38.5                 | 41.5  | 455.0                 | 750.5 |
| Average       | 16.9                 | 20.0  | 26.4                 | 31.9  | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 1.6                       | 0.5   | 0.5                     | 3.0   |                         |       |               |       |                      |       | 14.7                  | 24.2  |
|               | 18.5                 |       | 29.2                 |       | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 1.0                       |       | 1.8                     |       |                         |       | 0.0           |       | 80.0                 |       | 19.4                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| January 2018 |                      |       |                      |       |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM          |                      | 20.0  |                      | 33.0  |                     | ..    |                   | ..    |                       | ..    |                           | -     |                         | 0.3   |                         | NW    |               | -     |                      | 1.0   |                       | 25.0  |
| 1            | 18.0                 | 24.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.3                     | 4.4   | SE                      | SE    | -             | -     | 2.0                  | 1.0   | 14.0                  | 23.5  |
| 2            | 17.0                 | 22.0  | 26.0                 | 29.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.6                     | 2.1   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 14.0                  | 22.5  |
| 3            | 14.0                 | 21.0  | 24.0                 | 28.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.5                     | 5.6   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 14.5                  | 21.5  |
| 4            | 16.0                 | 18.0  | 24.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.3                     | 3.2   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 12.5                  | 22.0  |
| 5            | 12.0                 | 16.0  | 24.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.3                     | 6.1   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 11.0                  | 21.0  |
| 6            | 11.0                 | 16.0  | 24.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 4.8   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 11.0                  | 21.5  |
| 7            | 12.0                 | 16.0  | 26.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.2                     | 4.0   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 11.5                  | 22.0  |
| 8            | 12.0                 | 19.0  | 24.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.8                     | 4.1   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 13.0                  | 22.0  |
| 9            | 12.0                 | 22.0  | 27.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | 2.0   | 0.3                     | 5.3   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 11.5                  | 21.5  |
| 10           | 12.0                 | 16.0  | 24.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.1                     | 4.9   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 11.0                  | 21.5  |
| 11           | 13.0                 | 21.0  | 25.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.2                     | 6.1   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 13.5                  | 22.0  |
| 12           | 12.0                 | 21.0  | 27.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 4.6   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 13.0                  | 23.0  |
| 13           | 13.0                 | 18.0  | 26.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.1                     | 5.6   | NW                      | NW    | -             | -     | 1.0                  | 3.0   | 13.5                  | 23.5  |
| 14           | 14.0                 | 20.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.4                     | 4.7   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 15.5                  | 24.0  |
| 15           | 16.0                 | 21.0  | 29.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.3                     | 8.8   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 15.5                  | 23.5  |
| 16           | 11.0                 | 20.0  | 30.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.3                     | 5.1   | NW                      | NW    | -             | -     | 1.0                  | 3.0   | 13.0                  | 23.0  |
| 17           | 12.0                 | 17.0  | 26.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.1                     | 3.2   | NW                      | NW    | -             | -     | 1.5                  | 2.0   | 12.0                  | 24.0  |
| 18           | 12.0                 | 18.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.3                     | 7.0   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 13.5                  | 23.5  |
| 19           | 13.0                 | 18.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.2                     | 4.3   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 12.0                  | 23.5  |
| 20           | 14.0                 | 19.0  | 27.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.1                     | 3.8   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 13.0                  | 24.5  |
| 21           | 13.0                 | 20.0  | 27.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | 2.0   | 0.2                     | 3.5   | NW                      | NE    | -             | -     | 2.0                  | 3.0   | 14.0                  | 24.5  |
| 22           | 14.0                 | 19.0  | 28.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 3.4   | SE                      | NW    | -             | -     | 1.5                  | 2.0   | 13.5                  | 24.0  |
| 23           | 15.0                 | 18.0  | 27.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.3                     | 3.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.5  |
| 24           | 14.0                 | 20.0  | 27.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | -                         | -     | 0.4                     | 7.5   | SW                      | NW    | -             | -     | 1.5                  | 2.0   | 14.5                  | 23.0  |
| 25           | 12.0                 | 16.0  | 26.0                 | 31.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.7                     | 5.5   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 14.5                  | 23.0  |
| 26           | 12.0                 | 18.0  | 25.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | 2.0   | 0.2                     | 5.5   | NW                      | NE    | -             | -     | 2.0                  | 2.0   | 14.5                  | 23.0  |
| 27           | 12.0                 | 20.0  | 26.0                 | 30.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 2.0                       | -     | 0.2                     | 3.4   | SE                      | NW    | -             | -     | 2.0                  | 2.0   | 13.0                  | 23.5  |
| 28           | 12.0                 | 19.0  | 26.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | 4.0   | 0.2                     | 3.8   | SE                      | NW    | -             | -     | 2.0                  | 3.0   | 12.5                  | 24.0  |
| 29           | 15.0                 | 18.0  | 27.0                 | 32.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | -     | 0.3                     | 6.2   | SW                      | NW    | -             | -     | 2.0                  | 3.0   | 13.5                  | 23.5  |
| 30           | 12.0                 | 18.0  | 27.0                 | 33.0  | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       | 2.0   | 0.3                     | 6.0   | NW                      | NW    | -             | -     | 1.5                  | 2.0   | 13.5                  | 24.0  |
| 31           | 15.0                 |       | 27.0                 |       | ..                  | ..    | ..                | ..    | ..                    | ..    | 4.0                       |       | 0.7                     |       | SW                      |       | -             | -     | 1.0                  |       | 14.5                  |       |
| Total        | 412.0                | 589.0 | 817.0                | 971.0 | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 84.0                      | 18.0  | 9.3                     | 145.8 |                         |       | -             | -     | 49.0                 | 64.0  | 410.5                 | 715.5 |
| Average      | 13.3                 | 19.0  | 26.4                 | 31.3  | .. *                | .. *  | .. *              | .. *  | .. *                  | .. *  | 2.7                       | 0.6   | 0.3                     | 4.7   |                         |       |               |       |                      |       | 13.2                  | 23.1  |
|              | 16.1                 |       | 28.8                 |       | 0.0 *               |       | 0.0 *             |       | 0.0 *                 |       | 1.6                       |       | 2.5                     |       |                         |       | 0.0           |       | 113.0                |       | 18.2                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| February 2018 |                      |       |                      |       |                     |         |                   |         |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|---------|-------------------|---------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |         | Wet Bulb Temp. °C |         | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30   | 08:30             | 17:30   | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 18.0  |                      | 31.0  |                     | ..      |                   | ..      |                       | ..    |                           | -     |                         | 3.9   |                         | SW    |               | -     |                      | 1.0   |                       | 23.5  |
| 1             | 16.0                 | 20.0  | 30.0                 | 33.0  | 20.0                | 26.0    | 15.0              | 17.0    | ..                    | ..    | 4.0                       | 2.0   | 0.2                     | 10.2  | SW                      | NW    | -             | -     | 1.0                  | 4.0   | 14.5                  | 24.5  |
| 2             | 16.0                 | 26.0  | 29.0                 | 36.0  | 19.0                | 27.0    | 15.0              | 17.0    | ..                    | ..    | 2.0                       | -     | 0.3                     | 6.1   | NW                      | NE    | -             | -     | 2.0                  | 3.0   | 14.0                  | 25.5  |
| 3             | 18.0                 | 23.0  | 31.0                 | 36.0  | 20.0                | 26.0    | 16.0              | 17.0    | ..                    | ..    | 4.0                       | -     | 0.3                     | 3.5   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 16.0                  | 27.0  |
| 4             | 17.0                 | 22.0  | 34.0                 | 36.0  | 21.0                | 27.0    | 17.0              | 19.0    | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 5.8   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 16.5                  | 27.0  |
| 5             | 18.0                 | 24.0  | 32.0                 | 32.0  | 22.0                | 28.0    | 18.0              | 19.0    | ..                    | ..    | 4.0                       | -     | 0.5                     | 3.3   | SW                      | SE    | -             | -     | 2.0                  | 2.0   | 17.5                  | 28.0  |
| 6             | 18.0                 | 25.0  | 33.0                 | 36.0  | 23.0                | 28.0    | 19.0              | 20.0    | ..                    | ..    | 4.0                       | 2.0   | 0.4                     | 3.9   | SE                      | NW    | -             | -     | 1.0                  | 3.0   | 18.0                  | 28.0  |
| 7             | 21.0                 | 21.0  | 28.0                 | 32.0  | 22.0                | 25.0    | 20.0              | 20.0    | ..                    | ..    | -                         | 2.0   | 0.7                     | 3.5   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 23.0  |
| 8             | 20.0                 | 22.0  | 26.0                 | 34.0  | 22.0                | 28.0    | 18.0              | 19.0    | ..                    | ..    | 2.0                       | 4.0   | 1.3                     | 5.4   | SW                      | NW    | -             | -     | 2.0                  | 2.0   | 18.5                  | 28.0  |
| 9             | 18.0                 | 23.0  | 32.0                 | 34.0  | 22.0                | 28.0    | 18.0              | 20.0    | ..                    | ..    | 4.0                       | -     | 0.5                     | 7.2   | SW                      | NW    | -             | -     | 2.0                  | 2.5   | 18.0                  | 27.0  |
| 10            | 21.0                 | 24.0  | 30.0                 | 35.0  | 23.0                | 28.0    | 18.0              | 19.0    | ..                    | ..    | 2.0                       | -     | 0.7                     | 5.6   | NW                      | NE    | -             | -     | 2.0                  | 4.0   | 16.5                  | 19.0  |
| 11            | 20.0                 | 23.0  | 29.0                 | 33.0  | 23.0                | 27.0    | 18.0              | 21.0    | ..                    | ..    | 4.0                       | -     | 0.8                     | 8.6   | NE                      | SE    | -             | -     | 2.0                  | 2.0   | 19.0                  | 26.0  |
| 12            | 21.0                 | 22.0  | 29.0                 | 30.0  | 21.0                | 25.0    | 18.0              | 20.0    | ..                    | ..    | 8.0                       | -     | 2.1                     | 5.4   | NW                      | NE    | 19.6          | -     | 6.0                  | 2.0   | 17.5                  | 26.0  |
| 13            | 21.0                 | 22.0  | 28.0                 | 32.0  | 22.0                | 24.0    | 21.0              | 22.0    | ..                    | ..    | 4.0                       | 4.0   | 1.1                     | 7.3   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.0                  | 24.5  |
| 14            | 19.0                 | 22.0  | 25.0                 | 32.0  | 20.0                | 24.0    | 17.0              | 20.0    | ..                    | ..    | 4.0                       | -     | 7.4                     | 4.6   | NE                      | NW    | 2.4           | -     | 1.0                  | 2.0   | 16.5                  | 26.5  |
| 15            | 18.0                 | 22.0  | 28.0                 | 32.0  | 21.0                | 26.0    | 17.0              | 17.0    | ..                    | ..    | 4.0                       | 4.0   | 0.7                     | 5.9   | SW                      | NW    | -             | -     | 1.0                  | 2.0   | 17.5                  | 26.5  |
| 16            | 16.0                 | 21.0  | 30.0                 | 34.0  | 20.0                | 26.0    | 17.0              | 19.0    | ..                    | ..    | 4.0                       | 4.0   | 0.4                     | 5.2   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 15.5                  | 26.0  |
| 17            | 18.0                 | 20.0  | 28.0                 | 34.0  | 21.0                | 27.0    | 17.0              | 19.0    | ..                    | ..    | 4.0                       | -     | 0.3                     | 6.0   | SW                      | NW    | -             | -     | 2.0                  | 2.0   | 17.0                  | 26.5  |
| 18            | 17.0                 | 24.0  | 30.0                 | 35.0  | 22.0                | 28.0    | 18.0              | 19.0    | ..                    | ..    | 4.0                       | -     | 0.5                     | 3.9   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 17.5                  | 28.0  |
| 19            | 18.0                 | 25.0  | 33.0                 | 36.0  | 23.0                | 29.0    | 19.0              | 20.0    | ..                    | ..    | 4.0                       | 2.0   | 0.5                     | 4.9   | SW                      | NW    | -             | -     | 2.0                  | 2.0   | 18.5                  | 28.0  |
| 20            | 21.0                 | 24.0  | 32.0                 | 36.0  | 24.0                | 29.0    | 19.0              | 20.0    | ..                    | ..    | 4.0                       | 2.0   | 0.6                     | 4.2   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 29.0  |
| 21            | 20.0                 | 25.0  | 33.0                 | 38.0  | 23.0                | 30.0    | 19.0              | 19.0    | ..                    | ..    | 4.0                       | 2.0   | 0.6                     | 5.8   | NW                      | NE    | -             | -     | 2.0                  | 3.0   | 18.5                  | 29.0  |
| 22            | 19.0                 | 25.0  | 35.0                 | 39.0  | 23.0                | 30.0    | 19.0              | 20.0    | ..                    | ..    | 4.0                       | -     | 0.3                     | 4.0   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 18.0                  | 29.0  |
| 23            | 20.0                 | 25.0  | 33.0                 | 38.0  | 23.0                | 30.0    | 18.0              | 20.0    | ..                    | ..    | 4.0                       | 2.0   | 0.4                     | 3.4   | NW                      | SW    | -             | -     | 2.0                  | 3.0   | 19.0                  | 29.5  |
| 24            | 21.0                 | 27.0  | 35.0                 | 39.0  | 25.0                | 32.0    | 21.0              | 21.0    | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 4.2   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 30.0  |
| 25            | 21.0                 | 27.0  | 26.0                 | 39.0  | 25.0                | 32.0    | 19.0              | 21.0    | ..                    | ..    | 2.0                       | 2.0   | 0.7                     | 5.3   | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 20.0                  | 30.5  |
| 26            | 23.0                 | 26.0  | 25.0                 | 37.0  | 25.0                | 31.0    | 20.0              | 21.0    | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 6.9   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 21.0                  | 28.0  |
| 27            | 21.0                 | 26.0  | 34.0                 | 39.0  | 25.0                | 31.0    | 21.0              | 24.0    | ..                    | ..    | 2.0                       | 2.0   | 0.8                     | 6.5   | SW                      | NW    | -             | -     | 2.0                  | 3.0   | 19.0                  | 29.0  |
| 28            | 20.0                 |       | 34.0                 |       | 24.0                |         | 18.0              |         | ..                    | ..    | 4.0                       |       | 0.7                     |       | NW                      |       | -             | -     | 2.0                  |       | 18.5                  |       |
| Total         | 537.0                | 654.0 | 852.0                | 978.0 | 624.0               | 752.0 * | 510.0             | 530.0 * | .. *                  | .. *  | 96.0                      | 40.0  | 24.8                    | 150.5 |                         |       | 22.0          | -     | 54.0                 | 69.5  | 499.5                 | 752.5 |
| Average       | 19.2                 | 23.4  | 30.4                 | 34.9  | 22.3                | 27.9 *  | 18.2              | 19.6 *  | .. *                  | .. *  | 3.4                       | 1.4   | 0.9                     | 5.4   |                         |       |               |       |                      |       | 17.8                  | 26.9  |
|               | 21.3                 |       | 32.7                 |       | 25.1 *              |         | 18.9 *            |         | 0.0 *                 |       | 2.4                       |       | 3.1                     |       |                         |       | 22.0          |       | 123.5                |       | 22.4                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| March 2018 |                      |       |                      |        |                     |       |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM        |                      | 22.0  |                      | 38.0   |                     | 26.0  |                   | 19.0  |                       | ..    |                           | 2.0   |                         | 12.6  |                         | NW    |               | -     |                      | 3.0   |                       | 24.0  |
| 1          | 21.0                 | 22.0  | 38.0                 | 42.0   | 24.0                | 32.0  | 19.0              | 20.0  | ..                    | ..    | 2.0                       | 2.0   | 0.6                     | 5.5   | NE                      | NW    | -             | -     | 2.0                  | 4.0   | 19.0                  | 31.0  |
| 2          | 21.0                 | 23.0  | 31.0                 | 40.0   | 22.0                | 32.0  | 21.0              | 21.0  | ..                    | ..    | 4.0                       | 4.0   | 0.5                     | 0.2   | NE                      | NW    | -             | -     | 2.0                  | 4.0   | 20.5                  | 30.5  |
| 3          | 23.0                 | 27.0  | 31.0                 | 40.0   | 26.0                | 32.0  | 20.0              | 21.0  | ..                    | ..    | 6.0                       | 4.0   | 0.9                     | 6.3   | SW                      | NW    | -             | -     | 3.5                  | 2.0   | 21.0                  | 30.0  |
| 4          | 22.0                 | 25.0  | 30.0                 | 40.0   | 26.0                | 33.0  | 20.0              | 22.0  | ..                    | ..    | 4.0                       | -     | 0.9                     | 1.1   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 21.0                  | 31.5  |
| 5          | 23.0                 | 26.0  | 36.0                 | 37.0   | 27.0                | 31.0  | 21.0              | 21.0  | ..                    | ..    | 4.0                       | 2.0   | 1.0                     | 9.3   | SW                      | NE    | -             | -     | 2.0                  | 3.0   | 21.5                  | 28.0  |
| 6          | 21.0                 | 25.0  | 33.0                 | 37.0   | 25.0                | 31.0  | 20.0              | 21.0  | ..                    | ..    | 6.0                       | 2.0   | 0.9                     | 5.8   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 20.0                  | 29.0  |
| 7          | 21.0                 | 28.0  | 34.0                 | 39.0   | 26.0                | 32.0  | 20.0              | 21.0  | ..                    | ..    | 2.0                       | 2.0   | 1.2                     | 4.7   | NW                      | NW    | -             | -     | 2.0                  | 3.0   | 20.5                  | 30.5  |
| 8          | 21.0                 | 27.0  | 37.0                 | 39.0   | 26.0                | 31.0  | 19.0              | 20.0  | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 7.3   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.5                  | 27.5  |
| 9          | 23.0                 | 25.0  | 35.0                 | 36.0   | 26.0                | 29.0  | 19.0              | 20.0  | ..                    | ..    | 2.0                       | 2.0   | 3.1                     | 5.0   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 19.5                  | 27.0  |
| 10         | 20.0                 | 25.0  | 35.0                 | 40.0   | 25.0                | 30.0  | 20.0              | 20.0  | ..                    | ..    | 2.0                       | -     | 0.8                     | 4.6   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 19.0                  | 30.5  |
| 11         | 25.0                 | 27.0  | 36.0                 | 39.0   | 26.0                | 31.0  | 20.0              | 21.0  | ..                    | ..    | 2.0                       | 2.0   | 0.9                     | 5.4   | SW                      | NW    | -             | -     | 2.0                  | 3.0   | 21.5                  | 30.0  |
| 12         | 25.0                 | 27.0  | 35.0                 | 37.0   | 27.0                | 32.0  | 21.0              | 22.0  | ..                    | ..    | 2.0                       | 2.0   | 1.7                     | 10.5  | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 29.5  |
| 13         | 22.0                 | 28.0  | 35.0                 | 39.0   | 27.0                | 32.0  | 20.0              | 21.0  | ..                    | ..    | 2.0                       | 4.0   | 0.7                     | 10.7  | SW                      | NW    | -             | -     | 2.0                  | 4.0   | 21.0                  | 28.5  |
| 14         | 22.0                 | 27.0  | 36.0                 | 41.0   | 26.0                | 32.0  | 20.0              | 21.0  | ..                    | ..    | 2.0                       | 2.0   | 1.4                     | 3.7   | NE                      | SE    | -             | -     | 2.0                  | 3.0   | 20.0                  | 31.5  |
| 15         | 23.0                 | 27.0  | 36.0                 | 37.0   | 27.0                | 31.0  | 19.0              | 21.0  | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 10.7  | SW                      | NW    | -             | -     | 2.0                  | 3.0   | 21.5                  | 30.0  |
| 16         | 23.0                 | 25.0  | 34.0                 | 36.0   | 25.0                | 27.0  | 21.0              | 22.0  | ..                    | ..    | 2.0                       | 4.0   | 3.1                     | 4.5   | NW                      | SE    | -             | -     | 2.0                  | 1.0   | 21.5                  | 22.0  |
| 17         | 20.0                 | 24.0  | 33.0                 | 36.0   | 24.0                | 29.0  | 20.0              | 21.0  | ..                    | ..    | 2.0                       | 2.0   | 1.9                     | 8.9   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 30.0  |
| 18         | 21.0                 | 27.0  | 34.0                 | 38.0   | 25.0                | 31.0  | 20.0              | 21.0  | ..                    | ..    | 2.0                       | 2.0   | 1.3                     | 5.0   | NW                      | NE    | -             | -     | 1.0                  | 2.0   | 21.0                  | 30.0  |
| 19         | 21.0                 | 28.0  | 36.0                 | 40.0   | 26.0                | 31.0  | 19.0              | 20.0  | ..                    | ..    | 4.0                       | 2.0   | 1.2                     | 8.7   | NE                      | NE    | -             | -     | 1.0                  | 3.0   | 20.5                  | 30.0  |
| 20         | 22.0                 | 28.0  | 38.0                 | 41.0   | 26.0                | 32.0  | 19.0              | 22.0  | ..                    | ..    | 2.0                       | 2.0   | 0.5                     | 4.5   | NE                      | NW    | -             | -     | 3.0                  | 3.0   | 20.0                  | 31.0  |
| 21         | 21.0                 | 27.0  | 37.0                 | 40.0   | 25.0                | 30.0  | 18.0              | 21.0  | ..                    | ..    | 6.0                       | 6.0   | 2.0                     | 2.4   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 20.5                  | 30.0  |
| 22         | 20.0                 | 23.0  | 36.0                 | 41.0   | 24.0                | 32.0  | 19.0              | 22.0  | ..                    | ..    | 4.0                       | 4.0   | 1.3                     | 4.9   | SW                      | NW    | -             | -     | 2.0                  | 4.0   | 20.0                  | 31.0  |
| 23         | 24.0                 | 29.0  | 36.0                 | 40.0   | 28.0                | 34.0  | 19.0              | 19.0  | ..                    | ..    | 6.0                       | 4.0   | 1.1                     | 9.0   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 21.5                  | 30.0  |
| 24         | 29.0                 | 31.0  | 37.0                 | 42.0   | 28.0                | 34.0  | 18.0              | 24.0  | ..                    | ..    | 4.0                       | 4.0   | 1.8                     | 7.0   | SE                      | NE    | -             | -     | 3.5                  | 4.0   | 20.5                  | 32.0  |
| 25         | 29.0                 | 31.0  | 40.0                 | 42.0   | 28.0                | 34.0  | 19.0              | 22.0  | ..                    | ..    | 4.0                       | 4.0   | 1.2                     | 6.4   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 21.5                  | 31.0  |
| 26         | 29.0                 | 30.0  | 41.0                 | 42.0   | 25.0                | 34.0  | 20.0              | 23.0  | ..                    | ..    | 4.0                       | 4.0   | 1.5                     | 7.7   | SW                      | NW    | -             | -     | 3.0                  | 4.0   | 21.0                  | 30.0  |
| 27         | 21.0                 | 29.0  | 36.0                 | 44.0   | 27.0                | 34.0  | 19.0              | 20.0  | ..                    | ..    | 4.0                       | 4.0   | 0.5                     | 5.7   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 21.0                  | 31.0  |
| 28         | 21.0                 | 29.0  | 40.0                 | 44.0   | 25.0                | 30.0  | 20.0              | 20.0  | ..                    | ..    | 4.0                       | 4.0   | 0.6                     | 4.7   | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 21.0                  | 32.0  |
| 29         | 24.0                 | 30.0  | 37.0                 | 42.0   | 28.0                | 34.0  | 19.0              | 23.0  | ..                    | ..    | 6.0                       | 6.0   | 0.6                     | 4.9   | SW                      | NE    | -             | -     | 2.0                  | 4.0   | 22.5                  | 31.5  |
| 30         | 24.0                 | 31.0  | 36.0                 | 44.0   | 28.0                | 35.0  | 20.0              | 20.0  | ..                    | ..    | 6.0                       | -     | 2.4                     | 4.8   | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 22.5                  | 30.0  |
| 31         | 25.0                 |       | 38.0                 |        | 28.0                |       | 19.0              |       | ..                    |       | 4.0                       |       | 1.7                     |       | SW                      |       | -             | -     | 2.0                  |       | 22.0                  |       |
| Total      | 707.0                | 833.0 | 1107.0               | 1233.0 | 806.0               | 978.0 | 608.0             | 652.0 | .. *                  | .. *  | 108.0                     | 86.0  | 39.5                    | 192.5 |                         |       | -             | -     | 64.0                 | 96.0  | 644.5                 | 920.5 |
| Average    | 22.8                 | 26.9  | 35.7                 | 39.8   | 26.0                | 31.5  | 19.6              | 21.0  | .. *                  | .. *  | 3.5                       | 2.8   | 1.3                     | 6.2   |                         |       |               |       |                      |       | 20.8                  | 29.7  |
|            | 24.8                 |       | 37.7                 |        | 28.8                |       | 20.3              |       | 0.0 *                 |       | 3.1                       |       | 3.7                     |       |                         |       | 0.0           |       | 160.0                |       | 25.2                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| April 2018 |                      |       |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM        |                      | 27.0  |                      | 41.0   |                     | 31.0   |                   | 20.0  |                       | ..    |                           | 2.0   |                         | 5.2   |                         | NE    |               | -     |                      | 3.0   |                       | 30.0  |
| 1          | 21.0                 | 25.0  | 36.0                 | 36.0   | 29.0                | 31.0   | 20.0              | 23.0  | ..                    | ..    | 6.0                       | 4.0   | 2.1                     | 5.1   | NE                      | NE    | -             | 0.2   | 4.0                  | 2.0   | 22.5                  | 27.5  |
| 2          | 21.0                 | 27.0  | 30.0                 | 41.0   | 25.0                | 33.0   | 20.0              | 22.0  | ..                    | ..    | 4.0                       | 4.0   | 6.3                     | 5.6   | NW                      | SE    | -             | -     | 2.0                  | 4.0   | 20.0                  | 31.5  |
| 3          | 29.0                 | 31.0  | 32.0                 | 40.0   | 28.0                | 33.0   | 22.0              | 22.0  | ..                    | ..    | 4.0                       | 2.0   | 1.4                     | 6.4   | SE                      | NE    | -             | -     | 2.0                  | 4.0   | 23.5                  | 32.5  |
| 4          | 26.0                 | 32.0  | 40.0                 | 43.0   | 29.0                | 35.0   | 22.0              | 23.0  | ..                    | ..    | 4.0                       | 2.0   | 1.0                     | 8.6   | SE                      | NE    | -             | -     | 2.0                  | 4.0   | 23.0                  | 31.5  |
| 5          | 27.0                 | 32.0  | 42.0                 | 42.0   | 30.0                | 35.0   | 21.0              | 24.0  | ..                    | ..    | 4.0                       | 2.0   | 1.5                     | 7.6   | SE                      | NW    | -             | -     | 2.0                  | 4.0   | 24.0                  | 33.0  |
| 6          | 27.0                 | 33.0  | 38.0                 | 44.0   | 30.0                | 36.0   | 22.0              | 24.0  | ..                    | ..    | 4.0                       | 2.0   | 2.1                     | 8.4   | SW                      | NW    | -             | -     | 2.5                  | 4.0   | 24.0                  | 34.0  |
| 7          | 28.0                 | 31.0  | 38.0                 | 39.0   | 33.0                | 35.0   | 23.0              | 24.0  | ..                    | ..    | 4.0                       | 2.0   | 5.9                     | 7.0   | NW                      | SW    | -             | -     | 4.0                  | 3.5   | 24.5                  | 32.0  |
| 8          | 27.0                 | 31.0  | 38.0                 | 39.0   | 30.0                | 34.0   | 22.0              | 23.0  | ..                    | ..    | 4.0                       | 2.0   | 5.5                     | 8.6   | SE                      | SW    | -             | -     | 4.0                  | 3.0   | 24.0                  | 31.5  |
| 9          | 27.0                 | 34.0  | 38.0                 | 40.0   | 31.0                | 35.0   | 22.0              | 23.0  | ..                    | ..    | 4.0                       | 2.0   | 2.2                     | 8.7   | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 31.5  |
| 10         | 26.0                 | 31.0  | 38.0                 | 43.0   | 29.0                | 35.0   | 22.0              | 23.0  | ..                    | ..    | 2.0                       | 2.0   | 3.8                     | 7.1   | SW                      | NE    | -             | -     | 4.0                  | 4.0   | 24.0                  | 32.5  |
| 11         | 27.0                 | 32.0  | 41.0                 | 43.0   | 30.0                | 36.0   | 22.0              | 22.0  | ..                    | ..    | 4.0                       | 2.0   | 2.1                     | 7.2   | SW                      | SW    | -             | -     | 2.0                  | 5.0   | 24.5                  | 33.5  |
| 12         | 26.0                 | 32.0  | 38.0                 | 43.0   | 31.0                | 35.0   | 22.0              | 22.0  | ..                    | ..    | 4.0                       | 2.0   | 1.7                     | 11.5  | SW                      | NW    | -             | -     | 2.0                  | 5.0   | 24.0                  | 32.5  |
| 13         | 28.0                 | 30.0  | 37.0                 | 42.0   | 30.0                | 36.0   | 22.0              | 23.0  | ..                    | ..    | 4.0                       | 2.0   | 2.9                     | 6.1   | SW                      | NW    | -             | -     | 4.0                  | 4.0   | 25.0                  | 33.0  |
| 14         | 26.0                 | 30.0  | 37.0                 | 40.0   | 29.0                | 33.0   | 22.0              | 23.0  | ..                    | ..    | 4.0                       | 6.0   | 4.3                     | 8.9   | SW                      | NW    | 11.2          | -     | 4.0                  | 3.0   | 25.0                  | 30.0  |
| 15         | 25.0                 | 30.0  | 34.0                 | 40.0   | 28.0                | 34.0   | 22.0              | 23.0  | ..                    | ..    | 4.0                       | 2.0   | 8.1                     | 7.7   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.5                  | 33.5  |
| 16         | 26.0                 | 30.0  | 37.0                 | 43.0   | 30.0                | 36.0   | 23.0              | 25.0  | ..                    | ..    | 4.0                       | 2.0   | 4.2                     | 5.4   | SE                      | NW    | -             | -     | 4.0                  | 4.0   | 25.5                  | 34.0  |
| 17         | 28.0                 | 32.0  | 38.0                 | 43.0   | 32.0                | 37.0   | 24.0              | 25.0  | ..                    | ..    | 4.0                       | 2.0   | 0.8                     | 11.8  | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 27.0                  | 34.5  |
| 18         | 27.0                 | 34.0  | 41.0                 | 44.0   | 32.0                | 37.0   | 23.0              | 23.0  | ..                    | ..    | 6.0                       | 2.0   | 3.3                     | 14.0  | SW                      | NW    | -             | -     | 4.0                  | 5.0   | 26.0                  | 32.5  |
| 19         | 28.0                 | 34.0  | 42.0                 | 45.0   | 32.0                | 38.0   | 23.0              | 24.0  | ..                    | ..    | 4.0                       | -     | 1.5                     | 5.2   | NW                      | NW    | -             | -     | 4.0                  | 5.0   | 25.5                  | 35.0  |
| 20         | 28.0                 | 35.0  | 44.0                 | 44.0   | 32.0                | 38.0   | 24.0              | 24.0  | ..                    | ..    | 4.0                       | 4.0   | 0.5                     | 9.9   | NW                      | NW    | -             | -     | 2.0                  | 6.0   | 25.5                  | 35.0  |
| 21         | 27.0                 | 34.0  | 43.0                 | 44.0   | 32.0                | 38.0   | 23.0              | 23.0  | ..                    | ..    | 2.0                       | 4.0   | 4.2                     | 10.0  | SW                      | NW    | -             | -     | 2.0                  | 6.0   | 26.0                  | 35.0  |
| 22         | 29.0                 | 33.0  | 40.0                 | 45.0   | 32.0                | 38.0   | 21.0              | 24.0  | ..                    | ..    | 2.0                       | 2.0   | 2.7                     | 5.3   | NW                      | NW    | -             | -     | 4.0                  | 6.0   | 24.5                  | 35.0  |
| 23         | 29.0                 | 34.0  | 43.0                 | 44.0   | 32.0                | 37.0   | 22.0              | 23.0  | ..                    | ..    | 4.0                       | 2.0   | 1.9                     | 5.8   | SE                      | NW    | -             | -     | 4.0                  | 4.0   | 25.5                  | 35.0  |
| 24         | 27.0                 | 34.0  | 41.0                 | 45.0   | 31.0                | 37.0   | 24.0              | 24.0  | ..                    | ..    | 4.0                       | 2.0   | 1.6                     | 5.0   | SE                      | SE    | -             | -     | 2.0                  | 5.0   | 25.5                  | 35.0  |
| 25         | 26.0                 | 32.0  | 41.0                 | 44.0   | 30.0                | 36.0   | 21.0              | 23.0  | ..                    | ..    | 2.0                       | 2.0   | 3.3                     | 10.0  | SW                      | NW    | -             | -     | 4.0                  | 5.0   | 25.0                  | 33.0  |
| 26         | 26.0                 | 35.0  | 41.0                 | 43.0   | 30.0                | 34.0   | 21.0              | 22.0  | ..                    | ..    | 4.0                       | 2.0   | 1.1                     | 7.6   | SW                      | SE    | -             | -     | 4.0                  | 5.0   | 24.0                  | 29.0  |
| 27         | 28.0                 | 34.0  | 41.0                 | 43.0   | 30.0                | 35.0   | 21.0              | 22.0  | ..                    | ..    | 4.0                       | 2.0   | 5.3                     | 3.2   | SE                      | NW    | -             | -     | 4.0                  | 5.0   | 23.0                  | 30.0  |
| 28         | 31.0                 | 33.0  | 40.0                 | 43.0   | 31.0                | 34.0   | 24.0              | 24.0  | ..                    | ..    | 2.0                       | 2.0   | 4.7                     | 11.0  | SE                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 34.5  |
| 29         | 30.0                 | 32.0  | 38.0                 | 43.0   | 30.0                | 34.0   | 24.0              | 25.0  | ..                    | ..    | 2.0                       | 4.0   | 8.5                     | 10.4  | SW                      | SW    | -             | -     | 4.0                  | 5.0   | 26.5                  | 35.0  |
| 30         | 30.0                 |       | 41.0                 |        | 32.0                |        | 21.0              |       | ..                    |       | 2.0                       |       | 5.0                     |       | SW                      |       | -             |       | 3.0                  |       | 27.0                  |       |
| Total      | 811.0                | 954.0 | 1168.0               | 1269.0 | 910.0               | 1056.0 | 665.0             | 695.0 | .. *                  | .. *  | 110.0                     | 72.0  | 99.5                    | 234.3 |                         |       | 11.2          | 0.2   | 95.5                 | 130.5 | 739.0                 | 982.5 |
| Average    | 27.0                 | 31.8  | 38.9                 | 42.3   | 30.3                | 35.2   | 22.2              | 23.2  | .. *                  | .. *  | 3.7                       | 2.4   | 3.3                     | 7.8   |                         |       |               |       |                      |       | 24.6                  | 32.8  |
|            | 29.4                 |       | 40.6                 |        | 32.8                |        | 22.7              |       | 0.0 *                 |       | 3.0                       |       | 5.6                     |       |                         |       | 11.4          |       | 226.0                |       | 28.7                  |       |

## Twice Daily Climatic Data

Station Code : 163  
Local River/Basin : Jonk

Station Name : Sankara  
Sub-Division : Raipur  
- 0.0 N.A

| May 2018 |                      |        |                      |        |                     |        |                   |       |                       |       |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|----------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|          | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day      | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM    |                      | 31.0   |                      | 44.0   |                     | 34.0   |                   | 24.0  |                       | ..    |                           | 2.0   |                         | 8.2   |                         | NW    |               | -     |                      | 4.0   |                       | 31.0   |
| 1        | 28.0                 | 30.0   | 39.0                 | 43.0   | 30.0                | 31.0   | 24.0              | 25.0  | ..                    | ..    | 2.0                       | 4.0   | 5.4                     | 10.3  | SE                      | SE    | -             | 0.2   | 4.0                  | 4.0   | 26.5                  | 29.5   |
| 2        | 26.0                 | 32.0   | 32.0                 | 42.0   | 29.0                | 34.0   | 23.0              | 24.0  | ..                    | ..    | 2.0                       | 2.0   | 4.1                     | 8.0   | SE                      | NW    | -             | -     | 1.0                  | 4.0   | 25.0                  | 34.0   |
| 3        | 23.0                 | 27.0   | 32.0                 | 37.0   | 28.0                | 31.0   | 23.0              | 25.0  | ..                    | ..    | 6.0                       | 2.0   | 9.4                     | 6.7   | NW                      | SW    | 5.4           | -     | 1.4                  | 3.0   | 23.5                  | 34.0   |
| 4        | 26.0                 | 31.0   | 36.0                 | 39.0   | 28.0                | 32.0   | 22.0              | 26.0  | ..                    | ..    | 4.0                       | 2.0   | 2.2                     | 9.7   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 26.5                  | 35.0   |
| 5        | 27.0                 | 36.0   | 38.0                 | 42.0   | 31.0                | 34.0   | 23.0              | 26.0  | ..                    | ..    | 4.0                       | 2.0   | 1.8                     | 11.0  | SW                      | SW    | -             | -     | 2.0                  | 5.0   | 27.0                  | 37.0   |
| 6        | 30.0                 | 35.0   | 40.0                 | 43.0   | 32.0                | 34.0   | 25.0              | 27.0  | ..                    | ..    | 4.0                       | 4.0   | 1.9                     | 12.0  | SW                      | SW    | -             | -     | 2.5                  | 6.0   | 29.0                  | 36.0   |
| 7        | 30.0                 | 35.0   | 36.0                 | 44.0   | 33.0                | 34.0   | 25.0              | 27.0  | ..                    | ..    | 8.0                       | 4.0   | 3.1                     | 11.7  | SW                      | NW    | -             | -     | 3.0                  | 6.0   | 29.5                  | 36.0   |
| 8        | 32.0                 | 38.0   | 39.0                 | 44.0   | 32.0                | 35.0   | 25.0              | 30.0  | ..                    | ..    | 4.0                       | 2.0   | 2.3                     | 11.4  | NW                      | SW    | -             | -     | 3.0                  | 7.0   | 28.5                  | 36.5   |
| 9        | 31.0                 | 37.0   | 42.0                 | 45.0   | 33.0                | 39.0   | 24.0              | 28.0  | ..                    | ..    | 2.0                       | 2.0   | 2.1                     | 4.5   | SW                      | SW    | -             | -     | 4.0                  | 6.0   | 28.5                  | 36.0   |
| 10       | 30.0                 | 34.0   | 40.0                 | 38.0   | 32.0                | 38.0   | 24.0              | 27.0  | ..                    | ..    | 2.0                       | -     | 4.1                     | 12.1  | SW                      | SE    | -             | 3.2   | 2.0                  | 5.0   | 28.0                  | 33.0   |
| 11       | 29.0                 | 32.0   | 32.0                 | 38.0   | 31.0                | 31.0   | 24.0              | 25.0  | ..                    | ..    | 2.0                       | 2.0   | 1.6                     | 5.5   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 28.0                  | 34.0   |
| 12       | 28.0                 | 36.0   | 33.0                 | 40.0   | 30.0                | 33.0   | 23.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 2.3                     | 9.1   | NW                      | SW    | -             | -     | 3.0                  | 5.0   | 26.0                  | 35.5   |
| 13       | 32.0                 | 36.0   | 35.0                 | 39.0   | 31.0                | 33.0   | 23.0              | 26.0  | ..                    | ..    | 2.0                       | 4.0   | 5.3                     | 12.2  | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 28.0                  | 34.0   |
| 14       | 30.0                 | 30.0   | 38.0                 | 40.0   | 28.0                | 34.0   | 25.0              | 25.0  | ..                    | ..    | 2.0                       | 4.0   | 4.8                     | 9.1   | SE                      | SE    | -             | -     | 4.0                  | 4.0   | 25.0                  | 34.0   |
| 15       | 26.0                 | 35.0   | 36.0                 | 39.0   | 28.0                | 34.0   | 23.0              | 24.0  | ..                    | ..    | 2.0                       | 4.0   | 6.8                     | 10.6  | NW                      | SW    | -             | -     | 4.0                  | 4.0   | 24.5                  | 33.5   |
| 16       | 29.0                 | 32.0   | 38.0                 | 41.0   | 31.0                | 36.0   | 25.0              | 25.0  | ..                    | ..    | 2.0                       | 4.0   | 1.9                     | 9.8   | SW                      | SW    | -             | -     | 2.0                  | 5.0   | 25.5                  | 33.5   |
| 17       | 30.0                 | 36.0   | 37.0                 | 44.0   | 28.0                | 36.0   | 25.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 2.8                     | 7.9   | SE                      | SW    | 1.2           | -     | 4.0                  | 5.0   | 27.0                  | 36.0   |
| 18       | 32.0                 | 34.0   | 41.0                 | 42.0   | 31.0                | 36.0   | 25.0              | 24.0  | ..                    | ..    | 2.0                       | 2.0   | 3.5                     | 14.0  | NW                      | SW    | -             | -     | 2.0                  | 6.0   | 27.0                  | 34.5   |
| 19       | 31.0                 | 34.0   | 41.0                 | 41.0   | 34.0                | 34.0   | 26.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 4.9                     | 8.1   | SE                      | SW    | -             | -     | 4.0                  | 2.5   | 26.5                  | 34.5   |
| 20       | 30.0                 | 37.0   | 40.0                 | 43.0   | 32.0                | 36.0   | 26.0              | 25.0  | ..                    | ..    | 2.0                       | 2.0   | 1.5                     | 8.1   | SW                      | SW    | -             | 1.8   | 2.0                  | 6.0   | 29.5                  | 36.0   |
| 21       | 29.0                 | 37.0   | 41.0                 | 40.0   | 30.0                | 33.0   | 23.0              | 27.0  | ..                    | ..    | 2.0                       | 2.0   | 6.8                     | 10.1  | SW                      | SW    | -             | -     | 4.0                  | 5.5   | 27.0                  | 35.0   |
| 22       | 31.0                 | 35.0   | 39.0                 | 43.0   | 32.0                | 36.0   | 25.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 2.6                     | 7.1   | SW                      | SW    | -             | -     | 4.0                  | 5.0   | 29.0                  | 36.0   |
| 23       | 31.0                 | 37.0   | 42.0                 | 42.0   | 28.0                | 33.0   | 24.0              | 29.0  | ..                    | ..    | 2.0                       | 2.0   | 5.6                     | 8.5   | NW                      | SW    | -             | -     | 4.0                  | 5.0   | 29.0                  | 35.5   |
| 24       | 32.0                 | 37.0   | 41.0                 | 44.0   | 32.0                | 36.0   | 26.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 4.8                     | 9.5   | SW                      | SW    | -             | -     | 4.0                  | 5.5   | 29.0                  | 36.0   |
| 25       | 32.0                 | 36.0   | 41.0                 | 46.0   | 33.0                | 37.0   | 27.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 4.3                     | 6.0   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 30.0                  | 36.5   |
| 26       | 29.0                 | 32.0   | 37.0                 | 44.0   | 27.0                | 36.0   | 26.0              | 26.0  | ..                    | ..    | 2.0                       | 6.0   | 4.6                     | 3.3   | NW                      | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 37.0   |
| 27       | 33.0                 | 36.0   | 41.0                 | 42.0   | 33.0                | 38.0   | 25.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 2.9                     | 8.7   | NE                      | SE    | 3.6           | -     | 4.0                  | 4.0   | 30.0                  | 34.5   |
| 28       | 32.0                 | 40.0   | 39.0                 | 44.0   | 37.0                | 40.0   | 25.0              | 26.0  | ..                    | ..    | 2.0                       | 4.0   | 2.3                     | 9.6   | SE                      | SE    | -             | -     | 4.0                  | 4.0   | 32.5                  | 35.5   |
| 29       | 31.0                 | 37.0   | 41.0                 | 45.0   | 34.0                | 41.0   | 26.0              | 26.0  | ..                    | ..    | 4.0                       | 2.0   | 4.3                     | 8.7   | SW                      | SW    | -             | -     | 3.0                  | 6.0   | 29.5                  | 37.0   |
| 30       | 32.0                 | 36.0   | 38.0                 | 45.0   | 33.0                | 41.0   | 26.0              | 26.0  | ..                    | ..    | 2.0                       | 2.0   | 8.0                     | 2.6   | NW                      | SE    | -             | -     | 3.0                  | 6.0   | 28.0                  | 37.0   |
| 31       | 23.0                 |        | 41.0                 |        | 24.0                |        | 22.0              |       | ..                    |       | 2.0                       |       | 7.1                     |       | NE                      |       | 30.2          |       | 3.0                  |       | 25.0                  |        |
| Total    | 915.0                | 1071.0 | 1186.0               | 1303.0 | 955.0               | 1090.0 | 758.0             | 805.0 | .. *                  | .. *  | 82.0                      | 80.0  | 125.1                   | 274.1 |                         |       | 40.4          | 5.2   | 94.9                 | 148.5 | 857.0                 | 1083.5 |
| Average  | 29.5                 | 34.5   | 38.3                 | 42.0   | 30.8                | 35.2   | 24.5              | 26.0  | .. *                  | .. *  | 2.6                       | 2.6   | 4.0                     | 8.8   |                         |       |               |       |                      |       | 27.6                  | 35.0   |
|          | 32.0                 |        | 40.1                 |        | 33.0                |        | 25.2              |       | 0.0 *                 |       | 2.6                       |       | 6.4                     |       |                         |       | 45.6          |       | 243.4                |       | 31.3                  |        |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |        |                   |       |                       |        |               |       |                      |        |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|--------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30  |
| LPM     |                      | 33.0  |                      | 36.0   |                     | 39.0   |                   | 35.0  |                       | 76.0   |               | -     |                      | 24.0   |                       | 32.5   |
| 1       | 32.0                 | 32.0  | 36.0                 | 36.0   | 33.0                | 35.0   | 27.0              | 28.0  | 62.0                  | 57.0   | -             | -     | 20.0                 | 37.0   | 29.0                  | 33.0   |
| 2       | 32.0                 | 32.0  | 36.0                 | 38.0   | 33.0                | 39.0   | 27.0              | 27.0  | 62.0                  | 37.0   | -             | -     | 27.0                 | 43.0   | 29.0                  | 36.0   |
| 3       | 33.0                 | 34.0  | 39.0                 | 40.0   | 34.0                | 40.0   | 25.0              | 28.0  | 46.0                  | 38.0   | -             | -     | 40.0                 | 41.0   | 28.0                  | 36.5   |
| 4       | 36.0                 | 36.0  | 40.0                 | 42.0   | 36.0                | 42.0   | 28.0              | 29.0  | 53.0                  | 36.0   | -             | -     | 40.0                 | 53.0   | 29.5                  | 37.0   |
| 5       | 37.0                 | 37.0  | 42.0                 | 43.0   | 37.0                | 42.0   | 29.0              | 29.0  | 54.0                  | 36.0   | -             | -     | 40.0                 | 44.0   | 30.0                  | 37.0   |
| 6       | 36.0                 | 35.0  | 40.0                 | 39.0   | 33.0                | 38.0   | 28.0              | 30.0  | 57.0                  | 54.0   | -             | -     | 40.0                 | 23.0   | 29.0                  | 37.0   |
| 7       | 34.0                 | 34.0  | 39.0                 | 38.0   | 34.0                | 38.0   | 27.0              | 29.0  | 56.0                  | 64.0   | -             | -     | 30.0                 | 40.0   | 28.0                  | 35.0   |
| 8       | 34.0                 | 33.0  | 38.0                 | 38.0   | 34.0                | 38.0   | 28.0              | 29.0  | 62.0                  | 64.0   | -             | -     | 27.0                 | 40.0   | 29.0                  | 35.0   |
| 9       | 34.0                 | 34.0  | 38.0                 | 39.0   | 34.0                | 38.0   | 28.0              | 29.0  | 62.0                  | 50.0   | -             | -     | 25.0                 | 40.0   | 29.5                  | 35.5   |
| 10      | 34.0                 | 33.0  | 38.0                 | 39.0   | 34.0                | 38.0   | 28.0              | 28.0  | 62.0                  | 50.0   | -             | -     | 25.0                 | 40.0   | 29.0                  | 35.0   |
| 11      | 33.0                 | 34.0  | 39.0                 | 39.0   | 33.0                | 38.0   | 27.0              | 28.0  | 62.0                  | 50.0   | -             | -     | 27.0                 | 40.0   | 29.0                  | 35.0   |
| 12      | 34.0                 | 35.0  | 39.0                 | 38.0   | 34.0                | 39.0   | 28.0              | 28.0  | 62.0                  | 50.0   | -             | -     | 27.0                 | 40.0   | 29.0                  | 35.0   |
| 13      | 31.0                 | 32.0  | 39.0                 | 37.0   | 32.0                | 37.0   | 28.0              | 28.0  | 63.0                  | 49.0   | -             | -     | 28.0                 | 30.0   | 28.5                  | 36.0   |
| 14      | 32.0                 | 32.0  | 37.0                 | 37.0   | 32.0                | 36.0   | 26.0              | 28.0  | 61.0                  | 53.0   | -             | -     | 40.0                 | 39.0   | 27.5                  | 36.5   |
| 15      | 33.0                 | 33.0  | 37.0                 | 39.0   | 34.0                | 39.0   | 27.0              | 28.0  | 56.0                  | 40.0   | -             | -     | 31.0                 | 35.0   | 29.0                  | 37.0   |
| 16      | 32.0                 | 32.0  | 39.0                 | 36.0   | 32.0                | 33.0   | 27.0              | 28.0  | 67.0                  | 68.0   | -             | -     | 37.0                 | 20.0   | 27.5                  | 32.0   |
| 17      | 31.0                 | 31.0  | 37.0                 | 37.0   | 31.0                | 37.0   | 26.0              | 28.0  | 66.0                  | 49.0   | -             | -     | 20.0                 | 31.0   | 27.5                  | 36.0   |
| 18      | 32.0                 | 32.0  | 37.0                 | 38.0   | 33.0                | 39.0   | 27.0              | 29.0  | 62.0                  | 46.0   | -             | -     | 31.0                 | 40.0   | 28.5                  | 37.0   |
| 19      | 34.0                 | 33.0  | 39.0                 | 38.0   | 34.0                | 38.0   | 28.0              | 29.0  | 62.0                  | 50.0   | -             | -     | 40.0                 | 325.0  | 28.5                  | 36.5   |
| 20      | 33.0                 | 34.0  | 38.0                 | 38.0   | 34.0                | 38.0   | 28.0              | 29.0  | 62.0                  | 50.0   | -             | -     | 34.0                 | 39.0   | 28.0                  | 36.0   |
| 21      | 30.0                 | 29.0  | 38.0                 | 32.0   | 30.0                | 30.0   | 27.0              | 27.0  | 78.0                  | 78.0   | 36.0          | 1.8   | 0.4                  | 0.1    | 27.0                  | 35.0   |
| 22      | 28.0                 | 28.0  | 32.0                 | 32.0   | 33.0                | 28.0   | 28.0              | 26.0  | 85.0                  | 68.0   | 0.4           | -     | 11.0                 | 20.0   | 26.0                  | 35.0   |
| 23      | 30.0                 | 30.0  | 33.0                 | 34.0   | 30.0                | 34.0   | 27.0              | 28.0  | 78.0                  | 62.0   | -             | -     | 26.0                 | 18.0   | 27.0                  | 34.0   |
| 24      | 31.0                 | 31.0  | 34.0                 | 34.0   | 32.0                | 34.0   | 27.0              | 27.0  | 67.0                  | 56.0   | -             | 2.4   | 20.0                 | 0.0    | 28.0                  | 33.0   |
| 25      | 31.0                 | 30.0  | 33.0                 | 34.0   | 30.0                | 33.0   | 27.0              | 28.0  | 78.0                  | 68.0   | -             | -     | 18.0                 | 20.0   | 27.0                  | 32.0   |
| 26      | 30.0                 | 31.0  | 33.0                 | 34.0   | 30.0                | 31.0   | 27.0              | 28.0  | 78.0                  | 78.0   | -             | -     | 20.0                 | 22.0   | 28.0                  | 34.0   |
| 27      | 29.0                 | 30.0  | 34.0                 | 33.0   | 30.0                | 32.0   | 27.0              | 28.0  | 78.0                  | 73.0   | 3.4           | 5.8   | 0.0                  | 0.0    | 27.0                  | 32.0   |
| 28      | 30.0                 | 30.0  | 33.0                 | 31.0   | 30.0                | 31.0   | 28.0              | 28.0  | 85.0                  | 79.0   | -             | 1.6   | 11.0                 | 9.0    | 28.0                  | 30.0   |
| 29      | 28.0                 | 28.0  | 31.0                 | 30.0   | 29.0                | 29.0   | 26.0              | 27.0  | 78.0                  | 85.0   | 103.8         | 5.4   | 0.0                  | 0.0    | 26.0                  | 29.5   |
| 30      | 28.0                 |       | 30.0                 |        | 28.0                |        | 26.0              |       | 85.0                  |        | -             |       | 0.6                  |        | 26.5                  |        |
| Total   | 962.0                | 968.0 | 1098.0               | 1099.0 | 973.0               | 1083.0 | 817.0             | 851.0 | 1989.0                | 1714.0 | 143.6         | 17.0  | 736.0                | 1153.1 | 843.5                 | 1041.0 |
| Average | 32.1                 | 32.3  | 36.6                 | 36.6   | 32.4                | 36.1   | 27.2              | 28.4  | 66.3                  | 57.1   |               |       |                      |        | 28.1                  | 34.7   |
|         | 32.2                 |       | 36.6                 |        | 34.3                |        | 27.8              |       | 61.7                  |        | 160.6         |       | 1889.1               |        | 31.4                  |        |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |        |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|--------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 29.0  |                     | 29.0  |                   | 26.0  |                       | 78.0   |               | -     |                      | 0.3    |                       | 29.0  |
| 1       | 27.0                 | 27.0  | 29.0                 | 28.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -             | 32.8  | 6.0                  | 111.0  | 26.0                  | 28.0  |
| 2       | 27.0                 | 27.0  | 29.0                 | 29.0  | 28.0                | 29.0  | 25.0              | 26.0  | 85.0                  | 85.0   | -             | 3.6   | 7.0                  | 333.0  | 26.5                  | 28.0  |
| 3       | 26.0                 | 26.0  | 29.0                 | 28.0  | 27.0                | 29.0  | 26.0              | 27.0  | 84.0                  | 78.0   | 11.2          | 8.4   | 11.0                 | 30.0   | 25.0                  | 28.5  |
| 4       | 26.0                 | 26.0  | 29.0                 | 28.0  | 27.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 92.0   | 4.6           | 5.0   | 39.0                 | 51.0   | 25.5                  | 26.0  |
| 5       | 25.0                 | 25.0  | 28.0                 | 28.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 88.0   | 7.6           | -     | 55.0                 | 44.0   | 26.0                  | 29.0  |
| 6       | 26.0                 | 26.0  | 28.0                 | 29.0  | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -             | -     | 12.0                 | 2.0    | 25.5                  | 28.0  |
| 7       | 27.0                 | 27.0  | 29.0                 | 32.0  | 29.0                | 32.0  | 25.0              | 27.0  | 71.0                  | 67.0   | -             | -     | 3.0                  | 14.0   | 28.0                  | 34.0  |
| 8       | 29.0                 | 29.0  | 32.0                 | 34.0  | 30.0                | 34.0  | 25.0              | 27.0  | 78.0                  | 62.0   | -             | -     | 20.0                 | 20.0   | 28.0                  | 35.0  |
| 9       | 30.0                 | 30.0  | 34.0                 | 31.0  | 30.0                | 31.0  | 27.0              | 28.0  | 85.0                  | 73.0   | -             | 7.8   | 20.0                 | 12.0   | 28.0                  | 29.0  |
| 10      | 28.0                 | 26.0  | 31.0                 | 28.0  | 28.0                | 28.0  | 28.0              | 27.0  | 85.0                  | 85.0   | 5.0           | -     | 44.0                 | 75.0   | 25.0                  | 26.5  |
| 11      | 25.0                 | 26.0  | 29.0                 | 28.0  | 27.0                | 28.0  | 26.0              | 26.0  | 84.0                  | 77.0   | 1.2           | -     | 5.0                  | 3.0    | 24.5                  | 28.0  |
| 12      | 26.0                 | 26.0  | 28.0                 | 28.0  | 26.0                | 29.0  | 25.0              | 25.0  | 84.0                  | 78.0   | 1.2           | -     | 4.0                  | 8.0    | 25.0                  | 28.0  |
| 13      | 26.0                 | 26.0  | 28.0                 | 28.0  | 27.0                | 29.0  | 24.0              | 26.0  | 84.0                  | 78.0   | -             | -     | 4.0                  | 2.0    | 25.5                  | 30.0  |
| 14      | 26.0                 | 27.0  | 28.0                 | 31.0  | 28.0                | 31.0  | 25.0              | 26.0  | 85.0                  | 73.0   | -             | -     | 9.0                  | 17.0   | 25.0                  | 35.0  |
| 15      | 29.0                 | 30.0  | 31.0                 | 31.0  | 30.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 62.0   | -             | 5.6   | 20.0                 | 12.0   | 28.5                  | 34.0  |
| 16      | 29.0                 | 29.0  | 32.0                 | 31.0  | 30.0                | 29.0  | 27.0              | 27.0  | 78.0                  | 78.0   | 2.0           | -     | 8.0                  | 40.0   | 27.0                  | 28.5  |
| 17      | 27.0                 | 29.0  | 29.0                 | 32.0  | 26.0                | 32.0  | 26.0              | 27.0  | 92.0                  | 67.0   | 0.4           | -     | 14.0                 | 20.0   | 27.0                  | 25.5  |
| 18      | 29.0                 | 29.0  | 32.0                 | 31.0  | 30.0                | 32.0  | 28.0              | 27.0  | 78.0                  | 73.0   | 12.4          | -     | 86.0                 | 16.0   | 27.5                  | 24.5  |
| 19      | 29.0                 | 29.0  | 32.0                 | 34.0  | 30.0                | 34.0  | 27.0              | 28.0  | 78.0                  | 62.0   | -             | 5.6   | 20.0                 | 14.0   | 27.5                  | 34.5  |
| 20      | 29.0                 | 29.0  | 33.0                 | 30.0  | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | 58.0          | -     | 563.0                | 42.0   | 27.0                  | 28.5  |
| 21      | 27.0                 | 28.0  | 30.0                 | 30.0  | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 12.2          | 31.6  | 53.0                 | 10.0   | 27.0                  | 30.5  |
| 22      | 27.0                 | 28.0  | 29.0                 | 29.0  | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 14.8          | 9.0   | 74.0                 | 36.0   | 26.5                  | 25.0  |
| 23      | 27.0                 | 26.0  | 28.0                 | 28.0  | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | 17.4          | 1.6   | 110.0                | 94.0   | 26.0                  | 26.0  |
| 24      | 26.0                 | 25.0  | 27.0                 | 26.0  | 26.0                | 27.0  | 24.0              | 25.0  | 84.0                  | 84.0   | 5.6           | -     | 50.0                 | 18.0   | 25.0                  | 27.5  |
| 25      | 25.0                 | 25.0  | 27.0                 | 27.0  | 26.0                | 27.0  | 24.0              | 25.0  | 84.0                  | 84.0   | 1.0           | 3.4   | 10.0                 | 10.0   | 24.0                  | 26.5  |
| 26      | 25.0                 | 25.0  | 27.0                 | 27.0  | 26.0                | 26.0  | 24.0              | 24.0  | 84.0                  | 84.0   | 9.4           | 3.8   | 100.0                | 24.0   | 24.0                  | 25.0  |
| 27      | 24.0                 | 24.0  | 26.0                 | 26.0  | 25.0                | 26.0  | 24.0              | 24.0  | 92.0                  | 84.0   | 25.6          | -     | 182.0                | 28.0   | 24.0                  | 27.0  |
| 28      | 25.0                 | 25.0  | 26.0                 | 28.0  | 25.0                | 28.0  | 24.0              | 25.0  | 92.0                  | 77.0   | -             | -     | 80.0                 | 6.0    | 25.0                  | 30.5  |
| 29      | 26.0                 | 26.0  | 28.0                 | 29.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -             | -     | 6.0                  | 8.0    | 26.0                  | 31.0  |
| 30      | 27.0                 | 27.0  | 29.0                 | 28.0  | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 8.2           | -     | 74.0                 | 8.0    | 26.0                  | 26.0  |
| 31      | 24.0                 |       | 28.0                 |       | 28.0                |       | 26.0              |       | 85.0                  |        | -             |       | 4.0                  |        | 26.5                  |       |
| Total   | 829.0                | 835.0 | 905.0                | 906.0 | 856.0               | 905.0 | 792.0             | 811.0 | 2610.0                | 2420.0 | 197.8         | 118.2 | 1693.0               | 1108.3 | 808.0                 | 892.5 |
| Average | 26.7                 | 26.9  | 29.2                 | 29.2  | 27.6                | 29.2  | 25.5              | 26.2  | 84.2                  | 78.1   |               |       |                      |        | 26.1                  | 28.8  |
|         | 26.8                 |       | 29.2                 |       | 28.4                |       | 25.9              |       | 81.1                  |        | 316.0         |       | 2801.3               |        | 27.4                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Aug-17  |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 29.0  |                     | 29.0  |                   | 27.0  |                       | 85.0   |               | -     |                      | 60.0  |                       | 31.0  |
| 1       | 27.0                 | 28.0  | 29.0                 | 30.0  | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | 3.0           | -     | 4.0                  | 15.0  | 27.0                  | 33.0  |
| 2       | 27.0                 | 27.0  | 30.0                 | 30.0  | 28.0                | 30.0  | 25.0              | 28.0  | 77.0                  | 85.0   | -             | -     | 4.0                  | 14.0  | 25.5                  | 33.5  |
| 3       | 28.0                 | 27.0  | 31.0                 | 29.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | -             | -     | 18.0                 | 10.0  | 27.0                  | 30.0  |
| 4       | 27.0                 | 27.0  | 30.0                 | 31.0  | 27.0                | 31.0  | 25.0              | 27.0  | 84.0                  | 73.0   | -             | -     | 10.0                 | 12.0  | 26.0                  | 25.0  |
| 5       | 28.0                 | 27.0  | 31.0                 | 29.0  | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 1.0           | 9.2   | 6.0                  | 96.0  | 26.0                  | 26.0  |
| 6       | 26.0                 | 25.0  | 28.0                 | 29.0  | 26.0                | 29.0  | 24.0              | 27.0  | 84.0                  | 85.0   | 0.2           | -     | 4.0                  | 7.0   | 26.0                  | 29.5  |
| 7       | 27.0                 | 26.0  | 28.0                 | 30.0  | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -             | -     | 14.0                 | 4.0   | 26.5                  | 32.5  |
| 8       | 28.0                 | 27.0  | 30.0                 | 30.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 72.0   | -             | -     | 9.0                  | 16.0  | 27.5                  | 32.5  |
| 9       | 28.0                 | 27.0  | 31.0                 | 30.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 72.0   | -             | 4.6   | 6.0                  | 20.0  | 27.5                  | 31.5  |
| 10      | 27.0                 | 27.0  | 30.0                 | 29.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 26.2          | -     | 240.0                | 4.0   | 27.0                  | 30.0  |
| 11      | 26.0                 | 26.0  | 29.0                 | 28.0  | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0   | 4.0           | 17.4  | 38.0                 | 146.0 | 26.0                  | 29.0  |
| 12      | 26.0                 | 26.0  | 28.0                 | 27.0  | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0   | -             | 1.8   | 4.0                  | 16.0  | 25.5                  | 29.0  |
| 13      | 26.0                 | 26.0  | 28.0                 | 29.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -             | -     | 8.0                  | 8.0   | 26.0                  | 30.5  |
| 14      | 27.0                 | 28.0  | 29.0                 | 30.0  | 28.0                | 30.0  | 25.0              | 27.0  | 77.0                  | 78.0   | -             | -     | -                    | 16.0  | 26.0                  | 33.0  |
| 15      | 28.0                 | 27.0  | 31.0                 | 31.0  | 29.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 73.0   | -             | -     | 11.0                 | 18.0  | 27.5                  | 34.5  |
| 16      | 29.0                 | 28.0  | 31.0                 | 31.0  | 29.0                | 32.0  | 26.0              | 27.0  | 78.0                  | 67.0   | -             | -     | 16.0                 | 16.0  | 27.0                  | 34.0  |
| 17      | 29.0                 | 28.0  | 32.0                 | 29.0  | 29.0                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | -             | 9.6   | 14.0                 | 93.0  | 27.0                  | 29.0  |
| 18      | 27.0                 | 27.0  | 29.0                 | 29.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 3.0           | -     | 22.0                 | 2.0   | 26.0                  | 32.0  |
| 19      | 29.0                 | 27.0  | 30.0                 | 30.0  | 28.0                | 30.0  | 25.0              | 27.0  | 77.0                  | 78.0   | 1.2           | 6.0   | 3.0                  | 44.0  | 26.0                  | 30.5  |
| 20      | 27.0                 | 26.0  | 30.0                 | 29.0  | 28.0                | 29.0  | 25.0              | 26.0  | 77.0                  | 78.0   | -             | -     | 11.0                 | 4.0   | 25.5                  | 30.0  |
| 21      | 27.0                 | 27.0  | 29.0                 | 30.0  | 28.0                | 30.0  | 25.0              | 27.0  | 77.0                  | 78.0   | -             | -     | 10.0                 | 9.0   | 26.0                  | 30.0  |
| 22      | 27.0                 | 28.0  | 30.0                 | 30.0  | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -             | -     | 10.0                 | 18.0  | 26.5                  | 32.0  |
| 23      | 28.0                 | 28.0  | 30.0                 | 31.0  | 29.0                | 30.0  | 26.0              | 27.0  | 78.0                  | 78.0   | -             | -     | 10.0                 | 20.0  | 27.0                  | 34.0  |
| 24      | 28.0                 | 27.0  | 32.0                 | 30.0  | 29.0                | 31.0  | 27.0              | 28.0  | 85.0                  | 79.0   | 0.2           | 4.0   | 7.0                  | 27.0  | 26.0                  | 31.5  |
| 25      | 27.0                 | 27.0  | 30.0                 | 29.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | 4.4           | 2.8   | 34.0                 | 21.0  | 26.0                  | 30.0  |
| 26      | 27.0                 | 28.0  | 29.0                 | 30.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | -             | 3.0   | 6.0                  | 22.0  | 28.0                  | 32.0  |
| 27      | 28.0                 | 27.0  | 30.0                 | 29.0  | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 23.4          | 23.2  | 210.0                | 150.0 | 26.0                  | 29.0  |
| 28      | 26.0                 | 26.0  | 29.0                 | 28.0  | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | 6.8           | 6.2   | 70.0                 | 51.0  | 25.0                  | 29.5  |
| 29      | 26.0                 | 26.0  | 28.0                 | 28.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 4.0           | -     | 33.0                 | 10.0  | 25.0                  | 30.5  |
| 30      | 26.0                 | 26.0  | 28.0                 | 29.0  | 27.0                | 29.0  | 26.0              | 27.0  | 84.0                  | 78.0   | 7.8           | -     | 64.0                 | 8.0   | 25.5                  | 32.0  |
| 31      | 27.0                 |       | 29.0                 |       | 28.0                |       | 26.0              |       | 85.0                  |        | -             |       | 9.0                  |       | 27.5                  |       |
| Total   | 844.0                | 834.0 | 919.0                | 913.0 | 862.0               | 917.0 | 794.0             | 832.0 | 2572.0                | 2463.0 | 85.2          | 87.8  | 905.0                | 957.0 | 817.0                 | 956.5 |
| Average | 27.2                 | 26.9  | 29.6                 | 29.5  | 27.8                | 29.6  | 25.6              | 26.8  | 83.0                  | 79.5   |               |       |                      |       | 26.4                  | 30.9  |
|         | 27.1                 |       | 29.5                 |       | 28.7                |       | 26.2              |       | 81.2                  |        | 173.0         |       | 1862.0               |       | 28.6                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 28.0  |                      | 31.0  |                     | 31.0  |                   | 27.0  |                       | 72.0   |               | -     |                      | 17.0  |                       | 33.5  |
| 1       | 29.0                 | 28.0  | 31.0                 | 31.0  | 30.0                | 31.0  | 27.0              | 28.0  | 78.0                  | 73.0   | -             | -     | 16.0                 | 20.0  | 31.0                  | 33.0  |
| 2       | 28.0                 | 28.0  | 31.0                 | 31.0  | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 73.0   | -             | -     | 14.0                 | 20.0  | 28.0                  | 35.0  |
| 3       | 28.0                 | 28.0  | 32.0                 | 31.0  | 27.0                | 31.0  | 25.0              | 26.0  | 84.0                  | 66.0   | -             | -     | 18.0                 | 16.0  | 27.0                  | 35.0  |
| 4       | 28.0                 | 28.0  | 31.0                 | 31.0  | 28.0                | 31.0  | 25.0              | 27.0  | 77.0                  | 73.0   | -             | -     | 18.0                 | 14.0  | 26.0                  | 35.0  |
| 5       | 29.0                 | 29.0  | 32.0                 | 31.0  | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | -             | -     | 14.0                 | 16.0  | 28.0                  | 36.0  |
| 6       | 29.0                 | 29.0  | 32.0                 | 30.0  | 30.0                | 30.0  | 27.0              | 26.0  | 78.0                  | 72.0   | -             | -     | 18.0                 | 12.0  | 28.0                  | 31.0  |
| 7       | 28.0                 | 28.0  | 31.0                 | 32.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 67.0   | -             | 1.0   | 8.0                  | 16.0  | 28.0                  | 35.0  |
| 8       | 29.0                 | 28.0  | 31.0                 | 32.0  | 29.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 73.0   | -             | -     | 14.0                 | 6.0   | 27.5                  | 35.0  |
| 9       | 29.0                 | 28.0  | 32.0                 | 31.0  | 29.0                | 30.0  | 26.0              | 27.0  | 78.0                  | 78.0   | -             | -     | 8.0                  | 14.0  | 28.5                  | 32.0  |
| 10      | 28.0                 | 28.0  | 31.0                 | 30.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | -             | -     | 10.0                 | 14.0  | 28.0                  | 30.0  |
| 11      | 28.0                 | 27.0  | 30.0                 | 29.0  | 27.0                | 29.0  | 25.0              | 25.0  | 84.0                  | 71.0   | 0.4           | -     | 2.0                  | 6.0   | 27.0                  | 29.5  |
| 12      | 27.0                 | 27.0  | 29.0                 | 29.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | -             | -     | 3.0                  | 6.0   | 25.0                  | 28.0  |
| 13      | 26.0                 | 27.0  | 29.0                 | 29.0  | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -             | 19.6  | 4.0                  | 8.0   | 25.0                  | 31.0  |
| 14      | 28.0                 | 28.0  | 30.0                 | 30.0  | 28.0                | 30.0  | 25.0              | 28.0  | 77.0                  | 85.0   | -             | -     | 8.0                  | 19.0  | 28.0                  | 31.0  |
| 15      | 27.0                 | 27.0  | 31.0                 | 30.0  | 29.0                | 31.0  | 27.0              | 28.0  | 85.0                  | 73.0   | -             | -     | 4.0                  | 10.0  | 28.0                  | 34.0  |
| 16      | 28.0                 | 28.0  | 31.0                 | 31.0  | 29.0                | 31.0  | 26.0              | 28.0  | 78.0                  | 73.0   | 14.6          | 7.8   | 85.0                 | 6.0   | 29.0                  | 35.0  |
| 17      | 28.0                 | 28.0  | 31.0                 | 30.0  | 29.0                | 30.0  | 26.0              | 27.0  | 78.0                  | 78.0   | 2.2           | 15.2  | 6.0                  | 56.0  | 28.0                  | 31.0  |
| 18      | 27.0                 | 27.0  | 30.0                 | 28.0  | 27.0                | 27.0  | 25.0              | 25.0  | 84.0                  | 84.0   | 39.0          | 0.8   | 34.0                 | 15.0  | 26.0                  | 28.0  |
| 19      | 26.0                 | 26.0  | 28.0                 | 28.0  | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -             | 25.0  | 5.0                  | 2.0   | 26.0                  | 31.0  |
| 20      | 26.0                 | 26.0  | 28.0                 | 27.0  | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0   | -             | 0.4   | 5.0                  | 22.0  | 27.0                  | 28.0  |
| 21      | 26.0                 | 26.0  | 28.0                 | 28.0  | 26.0                | 27.0  | 24.0              | 25.0  | 84.0                  | 84.0   | 8.2           | -     | 68.0                 | 4.0   | 26.0                  | 29.0  |
| 22      | 25.0                 | 25.0  | 27.0                 | 28.0  | 26.0                | 28.0  | 24.0              | 25.0  | 84.0                  | 77.0   | 1.6           | -     | 10.0                 | 6.0   | 26.0                  | 30.0  |
| 23      | 25.0                 | 25.0  | 28.0                 | 29.0  | 26.0                | 29.0  | 24.0              | 27.0  | 84.0                  | 85.0   | -             | -     | 9.0                  | 8.0   | 25.0                  | 32.0  |
| 24      | 26.0                 | 26.0  | 29.0                 | 31.0  | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | -             | -     | 10.0                 | 13.0  | 27.0                  | 30.0  |
| 25      | 27.0                 | 27.0  | 31.0                 | 31.0  | 27.0                | 30.0  | 24.0              | 25.0  | 72.0                  | 72.0   | -             | -     | 16.0                 | 17.0  | 25.0                  | 33.0  |
| 26      | 27.0                 | 27.0  | 31.0                 | 31.0  | 27.0                | 30.0  | 25.0              | 26.0  | 78.0                  | 78.0   | -             | -     | 5.0                  | 12.0  | 26.0                  | 33.0  |
| 27      | 27.0                 | 27.0  | 31.0                 | 31.0  | 28.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | -             | 1.8   | 14.0                 | 8.0   | 28.0                  | 32.0  |
| 28      | 28.0                 | 28.0  | 31.0                 | 29.0  | 29.0                | 29.0  | 26.0              | 26.0  | 84.0                  | 72.0   | -             | -     | 10.0                 | 11.0  | 28.0                  | 28.0  |
| 29      | 26.0                 | 26.0  | 30.0                 | 29.0  | 27.0                | 30.0  | 25.0              | 26.0  | 77.0                  | 72.0   | -             | -     | 5.0                  | 10.0  | 27.0                  | 33.0  |
| 30      | 27.0                 |       | 30.0                 |       | 28.0                |       | 25.0              |       | 77.0                  |        | -             |       | 12.0                 |       | 27.5                  |       |
| Total   | 820.0                | 818.0 | 907.0                | 899.0 | 835.0               | 892.0 | 764.0             | 795.0 | 2452.0                | 2272.0 | 66.0          | 71.6  | 453.0                | 404.0 | 814.5                 | 957.0 |
| Average | 27.3                 | 27.3  | 30.2                 | 30.0  | 27.8                | 29.7  | 25.5              | 26.5  | 81.7                  | 75.7   |               |       |                      |       | 27.2                  | 31.9  |
|         | 27.3                 |       | 30.1                 |       | 28.8                |       | 26.0              |       | 78.7                  |        | 137.6         |       | 857.0                |       | 29.5                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 28.0  |                      | 30.0   |                     | 30.0  |                   | 26.0  |                       | 72.0   |               | ..    |                      | 8.0   |                       | 34.0  |
| 1       | 28.0                 | 28.0  | 31.0                 | 31.0   | 29.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 73.0   | -             | 6.6   | 10.0                 | 53.0  | 28.0                  | 32.0  |
| 2       | 27.0                 | 28.0  | 31.0                 | 31.0   | 28.0                | 31.0  | 25.0              | 26.0  | 77.0                  | 66.0   | -             | -     | 10.0                 | 6.0   | 26.0                  | 34.5  |
| 3       | 28.0                 | 28.0  | 31.0                 | 31.0   | 29.0                | 31.0  | 26.0              | 26.0  | 78.0                  | 78.0   | -             | -     | 12.0                 | 10.0  | 28.0                  | 33.0  |
| 4       | 27.0                 | 27.0  | 31.0                 | 30.0   | 28.0                | 30.0  | 25.0              | 27.0  | 77.0                  | 78.0   | -             | -     | 12.0                 | 7.0   | 26.0                  | 32.0  |
| 5       | 28.0                 | 28.0  | 31.0                 | 31.0   | 29.0                | 30.0  | 26.0              | 27.0  | 78.0                  | 78.0   | -             | 0.6   | 10.0                 | 2.0   | 27.0                  | 31.5  |
| 6       | 29.0                 | 28.0  | 33.0                 | 32.0   | 33.0                | 27.0  | 29.0              | 25.0  | 74.0                  | 84.0   | -             | 8.8   | 5.0                  | 2.5   | 26.0                  | 31.0  |
| 7       | 25.0                 | 27.0  | 29.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 27.0  | 77.0                  | 78.0   | 4.0           | -     | 26.0                 | 8.0   | 25.5                  | 32.0  |
| 8       | 25.0                 | 27.0  | 29.0                 | 35.0   | 30.0                | 26.0  | 27.0              | 24.0  | 78.0                  | 84.0   | -             | 16.4  | 10.0                 | 2.0   | 26.0                  | 30.0  |
| 9       | 25.0                 | 29.0  | 30.0                 | 34.0   | 30.0                | 30.0  | 27.0              | 26.0  | 78.0                  | 72.0   | -             | -     | 8.0                  | 6.0   | 25.0                  | 32.0  |
| 10      | 25.0                 | 28.0  | 29.0                 | 32.0   | 32.0                | 28.0  | 29.0              | 26.0  | 49.0                  | 77.0   | -             | 21.6  | 10.0                 | 3.0   | 25.5                  | 29.0  |
| 11      | 25.0                 | 29.0  | 31.0                 | 32.0   | 33.0                | 30.0  | 29.0              | 26.0  | 74.0                  | 72.0   | -             | -     | 3.0                  | 5.0   | 25.0                  | 29.5  |
| 12      | 24.0                 | 31.0  | 34.0                 | 36.0   | 30.0                | 36.0  | 26.0              | 31.0  | 72.0                  | 70.0   | -             | -     | 7.0                  | 7.0   | 24.5                  | 32.0  |
| 13      | 24.0                 | 31.0  | 32.0                 | 37.0   | 36.0                | 37.0  | 30.0              | 31.0  | 62.0                  | 64.0   | -             | -     | 9.0                  | 14.0  | 25.5                  | 32.0  |
| 14      | 24.0                 | 26.0  | 32.0                 | 32.0   | 27.0                | 31.0  | 25.0              | 26.0  | 84.0                  | 78.0   | -             | -     | 9.0                  | 8.0   | 25.0                  | 32.0  |
| 15      | 22.0                 | 29.0  | 33.0                 | 32.0   | 31.0                | 31.0  | 26.0              | 28.0  | 78.0                  | 73.0   | -             | -     | 12.0                 | 6.0   | 22.0                  | 30.5  |
| 16      | 21.0                 | 29.0  | 34.0                 | 38.0   | 34.0                | 32.0  | 27.0              | 26.0  | 56.0                  | 61.0   | -             | -     | 14.0                 | 8.0   | 22.5                  | 30.0  |
| 17      | 21.0                 | 31.0  | 34.0                 | 37.0   | 35.0                | 30.0  | 28.0              | 26.0  | 57.0                  | 72.0   | -             | -     | 12.0                 | 10.0  | 21.0                  | 28.0  |
| 18      | 20.0                 | 28.0  | 32.0                 | 35.0   | 34.0                | 30.0  | 27.0              | 25.0  | 56.0                  | 65.0   | -             | -     | 14.0                 | 8.0   | 21.0                  | 28.0  |
| 19      | 29.0                 | 26.0  | 30.0                 | 36.0   | 29.0                | 30.0  | 26.0              | 26.0  | 78.0                  | 61.0   | -             | -     | 8.0                  | 8.0   | 24.0                  | 30.0  |
| 20      | 26.0                 | 30.0  | 35.0                 | 35.0   | 34.0                | 30.0  | 28.0              | 26.0  | 53.0                  | 61.0   | -             | -     | 8.0                  | 10.0  | 27.0                  | 30.0  |
| 21      | 24.0                 | 32.0  | 34.0                 | 38.0   | 37.0                | 31.0  | 29.0              | 26.0  | 54.0                  | 78.0   | -             | -     | 12.0                 | 10.0  | 25.0                  | 31.0  |
| 22      | 24.0                 | 30.0  | 29.0                 | 38.0   | 33.0                | 30.0  | 29.0              | 26.0  | 74.0                  | 72.0   | -             | -     | 4.0                  | 8.0   | 24.0                  | 29.0  |
| 23      | 23.0                 | 28.0  | 31.0                 | 35.0   | 31.0                | 29.0  | 26.0              | 26.0  | 78.0                  | 78.0   | -             | -     | 10.0                 | 4.0   | 22.0                  | 29.0  |
| 24      | 22.0                 | 28.0  | 36.0                 | 37.0   | 35.0                | 31.0  | 29.0              | 23.0  | 72.0                  | 48.0   | -             | -     | 10.0                 | 8.0   | 22.5                  | 29.0  |
| 25      | 20.0                 | 29.0  | 35.0                 | 36.0   | 36.0                | 30.0  | 30.0              | 25.0  | 62.0                  | 65.0   | -             | -     | 14.0                 | 8.0   | 20.0                  | 28.0  |
| 26      | 22.0                 | 29.0  | 31.0                 | 36.0   | 30.0                | 29.0  | 26.0              | 23.0  | 73.0                  | 58.0   | -             | -     | 18.0                 | 0.4   | 22.0                  | 28.0  |
| 27      | 22.0                 | 28.0  | 36.0                 | 35.0   | 25.0                | 29.0  | 23.0              | 26.0  | 83.0                  | 78.0   | -             | -     | 12.0                 | 8.0   | 22.5                  | 28.0  |
| 28      | 21.0                 | 28.0  | 36.0                 | 36.0   | 23.0                | 31.0  | 21.0              | 23.0  | 83.0                  | 48.0   | -             | -     | 14.0                 | 8.0   | 21.0                  | 28.0  |
| 29      | 19.0                 | 28.0  | 32.0                 | 35.0   | 29.0                | 29.0  | 26.0              | 23.0  | 78.0                  | 58.0   | -             | -     | 14.0                 | 8.0   | 18.0                  | 28.0  |
| 30      | 19.0                 | 26.0  | 32.0                 | 35.0   | 26.0                | 30.0  | 22.0              | 25.0  | 69.0                  | 65.0   | -             | -     | 12.0                 | 6.0   | 18.0                  | 27.0  |
| 31      | 18.0                 |       | 35.0                 |        | 29.0                |       | 26.0              |       | 78.0                  |        | -             |       | 10.0                 |       | 18.0                  |       |
| Total   | 737.0                | 882.0 | 999.0                | 1062.0 | 953.0               | 940.0 | 825.0             | 804.0 | 2218.0                | 2165.0 | 4.0           | 54.0  | 339.0                | 259.9 | 733.5                 | 938.0 |
| Average | 23.8                 | 28.5  | 32.2                 | 34.3   | 30.7                | 30.3  | 26.6              | 25.9  | 71.5                  | 69.8   |               |       |                      |       | 23.7                  | 30.3  |
|         | 26.1                 |       | 33.2                 |        | 30.5                |       | 26.3              |       | 70.7                  |        | 58.0 *        |       | 598.9                |       | 27.0                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 28.0  |                      | 36.0  |                     | 31.0  |                   | 23.0  |                       | 48.0   |               | -     |                      | 8.0   |                       | 27.0  |
| 1       | 19.0                 | 27.0  | 32.0                 | 33.0  | 26.0                | 29.0  | 24.0              | 26.0  | 84.0                  | 78.0   | -             | -     | 11.0                 | 9.0   | 20.0                  | 26.0  |
| 2       | 21.0                 | 28.0  | 33.0                 | 32.0  | 30.0                | 30.0  | 28.0              | 27.0  | 85.0                  | 78.0   | -             | -     | 13.0                 | 12.0  | 21.0                  | 27.0  |
| 3       | 20.5                 | 25.0  | 32.0                 | 33.0  | 31.0                | 29.0  | 29.0              | 26.0  | 49.0                  | 78.0   | -             | -     | 9.0                  | 10.0  | 20.5                  | 26.0  |
| 4       | 20.0                 | 26.0  | 31.0                 | 34.0  | 30.0                | 28.0  | 28.0              | 26.0  | 78.0                  | 77.0   | -             | -     | 7.0                  | 7.0   | 20.0                  | 25.0  |
| 5       | 20.0                 | 27.0  | 32.0                 | 35.0  | 32.0                | 28.0  | 29.0              | 26.0  | 49.0                  | 77.0   | -             | -     | 9.0                  | 9.0   | 20.0                  | 24.0  |
| 6       | 20.0                 | 27.0  | 36.0                 | 36.0  | 37.0                | 27.0  | 32.0              | 23.0  | 70.0                  | 70.0   | -             | -     | 7.0                  | 2.0   | 20.5                  | 26.0  |
| 7       | 19.0                 | 28.0  | 25.0                 | 35.0  | 30.0                | 28.0  | 25.0              | 23.0  | 65.0                  | 64.0   | -             | -     | 15.0                 | 5.2   | 19.0                  | 26.0  |
| 8       | 19.0                 | 28.0  | 32.0                 | 35.0  | 31.0                | 28.0  | 28.0              | 23.0  | 78.0                  | 64.0   | -             | -     | 12.0                 | 5.3   | 19.0                  | 25.0  |
| 9       | 17.0                 | 27.0  | 30.0                 | 30.0  | 30.0                | 27.0  | 27.0              | 22.0  | 78.0                  | 63.0   | -             | -     | 13.0                 | 9.0   | 17.0                  | 23.0  |
| 10      | 16.0                 | 16.0  | 34.0                 | 34.0  | 24.0                | 25.0  | 22.0              | 22.0  | 83.0                  | 76.0   | -             | -     | 8.0                  | 6.0   | 15.0                  | 24.0  |
| 11      | 16.0                 | 16.0  | 34.0                 | 34.0  | 27.0                | 28.0  | 24.0              | 22.0  | 77.0                  | 57.0   | -             | -     | 10.0                 | 4.0   | 15.0                  | 23.0  |
| 12      | 16.0                 | 16.0  | 34.0                 | 35.0  | 23.0                | 28.0  | 21.0              | 23.0  | 83.0                  | 64.0   | -             | -     | 18.0                 | 6.0   | 15.0                  | 23.0  |
| 13      | 16.0                 | 25.0  | 35.0                 | 33.0  | 26.0                | 29.0  | 24.0              | 23.0  | 84.0                  | 58.0   | -             | -     | 10.0                 | 4.0   | 16.0                  | 24.0  |
| 14      | 17.0                 | 26.0  | 33.0                 | 34.0  | 30.0                | 29.0  | 27.0              | 23.0  | 78.0                  | 58.0   | -             | -     | 14.0                 | 4.0   | 17.0                  | 24.0  |
| 15      | 21.0                 | 25.0  | 32.0                 | 32.0  | 30.0                | 25.0  | 27.0              | 22.0  | 78.0                  | 76.0   | -             | -     | 10.0                 | 4.0   | 20.0                  | 24.0  |
| 16      | 21.0                 | 24.0  | 31.0                 | 31.0  | 24.0                | 25.0  | 22.0              | 22.0  | 83.0                  | 76.0   | -             | -     | 6.0                  | 2.0   | 21.0                  | 24.0  |
| 17      | 21.0                 | 22.0  | 30.0                 | 30.0  | 22.0                | 30.0  | 20.0              | 25.0  | 82.0                  | 65.0   | -             | -     | 6.0                  | 8.0   | 21.0                  | 27.0  |
| 18      | 21.0                 | 28.0  | 32.0                 | 37.0  | 34.0                | 30.0  | 30.0              | 25.0  | 74.0                  | 65.0   | -             | -     | 6.0                  | 4.0   | 21.0                  | 27.0  |
| 19      | 20.0                 | 28.0  | 30.0                 | 36.0  | 29.0                | 31.0  | 24.0              | 28.0  | 36.0                  | 64.0   | -             | -     | 8.0                  | 8.0   | 20.0                  | 27.0  |
| 20      | 21.0                 | 26.0  | 36.0                 | 35.0  | 27.0                | 28.0  | 24.0              | 22.0  | 77.0                  | 57.0   | -             | -     | 10.0                 | 9.0   | 27.0                  | 25.0  |
| 21      | 17.0                 | 25.0  | 29.0                 | 34.0  | 26.0                | 27.0  | 23.0              | 21.0  | 76.0                  | 56.0   | -             | -     | 13.0                 | 7.0   | 17.0                  | 23.0  |
| 22      | 17.0                 | 17.0  | 28.0                 | 22.0  | 25.0                | 24.0  | 22.0              | 19.0  | 76.0                  | 60.0   | -             | -     | 10.0                 | 7.0   | 16.0                  | 22.0  |
| 23      | 17.0                 | 23.0  | 27.0                 | 32.0  | 24.0                | 25.0  | 21.0              | 20.0  | 75.0                  | 61.0   | -             | -     | 10.0                 | 8.0   | 16.0                  | 21.0  |
| 24      | 13.0                 | 22.0  | 31.0                 | 33.0  | 27.0                | 26.0  | 23.0              | 19.0  | 70.0                  | 49.0   | -             | -     | 8.0                  | 10.0  | 13.0                  | 20.0  |
| 25      | 13.0                 | 23.0  | 30.0                 | 32.0  | 29.0                | 24.0  | 24.0              | 19.0  | 64.0                  | 60.0   | -             | -     | 10.0                 | 10.0  | 13.0                  | 21.0  |
| 26      | 13.0                 | 22.0  | 31.0                 | 33.0  | 22.0                | 24.0  | 20.0              | 19.0  | 82.0                  | 60.0   | -             | -     | 6.0                  | 10.0  | 12.5                  | 20.0  |
| 27      | 13.0                 | 22.0  | 30.0                 | 33.0  | 26.0                | 26.0  | 21.0              | 19.0  | 62.0                  | 49.0   | -             | -     | 6.0                  | 8.0   | 13.0                  | 20.0  |
| 28      | 12.0                 | 21.0  | 27.0                 | 32.0  | 22.0                | 20.0  | 20.0              | 19.0  | 82.0                  | 91.0   | -             | -     | 8.0                  | 6.0   | 12.0                  | 20.0  |
| 29      | 13.0                 | 21.0  | 27.0                 | 32.0  | 20.0                | 25.0  | 18.0              | 20.0  | 82.0                  | 91.0   | -             | -     | 8.0                  | 8.0   | 13.0                  | 19.0  |
| 30      | 13.0                 |       | 30.0                 |       | 26.0                |       | 21.0              |       | 62.0                  |        | -             |       | 8.0                  |       | 13.0                  |       |
| Total   | 522.5                | 719.0 | 934.0                | 993.0 | 820.0               | 814.0 | 728.0             | 677.0 | 2202.0                | 1990.0 | -             | -     | 289.0                | 209.5 | 523.5                 | 713.0 |
| Average | 17.4                 | 24.0  | 31.1                 | 33.1  | 27.3                | 27.1  | 24.3              | 22.6  | 73.4                  | 66.3   |               |       |                      |       | 17.5                  | 23.8  |
|         | 20.7                 |       | 32.1                 |       | 27.2                |       | 23.4              |       | 69.9                  |        | 0.0           |       | 498.5                |       | 20.6                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 22.0  |                      | 33.0  |                     | 24.0  |                   | 19.0  |                       | 60.0   |               | ..    |                      | 6.0   |                       | 20.0  |
| 1       | 13.0                 | 21.0  | 30.0                 | 32.0  | 22.0                | 25.0  | 20.0              | 24.0  | 82.0                  | 84.0   | -             | -     | 8.0                  | 8.0   | 12.5                  | 19.5  |
| 2       | 13.0                 | 19.0  | 22.0                 | 31.0  | 24.0                | 24.0  | 21.0              | 18.0  | 75.0                  | 53.0   | -             | -     | 10.0                 | 4.0   | 12.0                  | 19.0  |
| 3       | 13.0                 | 21.0  | 21.0                 | 30.0  | 25.0                | 21.0  | 21.0              | 19.0  | 68.0                  | 82.0   | -             | -     | 10.0                 | 6.0   | 12.0                  | 19.0  |
| 4       | 13.0                 | 20.0  | 25.0                 | 31.0  | 21.0                | 23.0  | 18.0              | 18.0  | 73.0                  | 59.0   | -             | -     | 6.0                  | 4.0   | 12.0                  | 18.0  |
| 5       | 13.0                 | 20.0  | 20.0                 | 30.0  | 21.0                | 23.0  | 19.0              | 19.0  | 82.0                  | 67.0   | -             | -     | 8.0                  | 7.0   | 12.0                  | 20.0  |
| 6       | 13.0                 | 17.0  | 24.0                 | 31.0  | 19.0                | 25.0  | 17.0              | 19.0  | 81.0                  | 54.0   | -             | -     | 4.0                  | 6.0   | 13.0                  | 20.0  |
| 7       | 16.0                 | 22.0  | 27.0                 | 33.0  | 22.0                | 27.0  | 19.0              | 22.0  | 74.0                  | 63.0   | -             | -     | 9.0                  | 6.0   | 14.0                  | 20.5  |
| 8       | 16.0                 | 23.0  | 27.0                 | 33.0  | 21.0                | 27.0  | 19.0              | 22.0  | 82.0                  | 63.0   | -             | -     | 6.0                  | 6.0   | 15.0                  | 21.0  |
| 9       | 15.0                 | 23.0  | 30.0                 | 34.0  | 25.0                | 26.0  | 23.0              | 20.0  | 84.0                  | 55.0   | -             | -     | 10.0                 | 5.0   | 15.0                  | 20.5  |
| 10      | 14.0                 | 21.0  | 26.0                 | 32.0  | 21.0                | 25.0  | 18.0              | 20.0  | 73.0                  | 61.0   | -             | -     | 10.0                 | 5.0   | 13.0                  | 20.0  |
| 11      | 14.0                 | 21.0  | 26.0                 | 32.0  | 20.0                | 26.0  | 18.0              | 20.0  | 81.0                  | 55.0   | -             | -     | 8.0                  | 4.0   | 13.0                  | 20.5  |
| 12      | 14.0                 | 22.0  | 26.0                 | 33.0  | 22.0                | 26.0  | 20.0              | 21.0  | 82.0                  | 62.0   | -             | -     | 8.0                  | 6.0   | 13.0                  | 21.0  |
| 13      | 15.0                 | 23.0  | 28.0                 | 33.0  | 24.0                | 26.0  | 21.0              | 21.0  | 75.0                  | 62.0   | -             | -     | 6.0                  | 4.0   | 15.0                  | 22.0  |
| 14      | 17.0                 | 21.0  | 29.0                 | 32.0  | 24.0                | 26.0  | 21.0              | 21.0  | 75.0                  | 62.0   | -             | -     | 10.0                 | 2.0   | 16.0                  | 21.0  |
| 15      | 11.0                 | 23.0  | 26.0                 | 32.0  | 21.0                | 27.0  | 19.0              | 22.0  | 82.0                  | 63.0   | -             | -     | 6.0                  | 3.0   | 16.0                  | 22.0  |
| 16      | 22.0                 | 23.0  | 27.0                 | 32.0  | 22.0                | 26.0  | 20.0              | 21.0  | 82.0                  | 62.0   | -             | -     | 7.0                  | 5.0   | 16.0                  | 22.0  |
| 17      | 12.0                 | 21.0  | 32.0                 | 31.0  | 20.0                | 26.0  | 19.0              | 20.0  | 91.0                  | 55.0   | -             | -     | 8.0                  | 6.0   | 16.0                  | 21.0  |
| 18      | 12.0                 | 20.0  | 21.0                 | 30.0  | 20.0                | 22.0  | 19.0              | 16.0  | 91.0                  | 50.0   | -             | -     | 10.0                 | 10.0  | 12.0                  | 17.0  |
| 19      | 10.0                 | 19.0  | 20.0                 | 31.0  | 15.0                | 22.0  | 13.0              | 18.0  | 78.0                  | 66.0   | -             | -     | 8.0                  | 10.0  | 9.0                   | 19.0  |
| 20      | 13.0                 | 20.0  | 26.0                 | 30.0  | 22.0                | 25.0  | 18.0              | 20.0  | 66.0                  | 61.0   | -             | -     | 8.0                  | 3.0   | 12.0                  | 19.0  |
| 21      | 13.0                 | 19.0  | 26.0                 | 31.0  | 27.0                | 25.0  | 25.0              | 20.0  | 84.0                  | 61.0   | -             | -     | 8.0                  | 3.0   | 12.0                  | 19.0  |
| 22      | 13.0                 | 19.0  | 25.0                 | 31.0  | 17.0                | 25.0  | 15.0              | 20.0  | 80.0                  | 61.0   | -             | -     | 8.0                  | 3.0   | 12.0                  | 20.0  |
| 23      | 12.0                 | 20.0  | 25.0                 | 31.0  | 18.0                | 27.0  | 16.0              | 22.0  | 80.0                  | 63.0   | -             | -     | 9.0                  | 3.0   | 12.0                  | 20.0  |
| 24      | 12.0                 | 20.0  | 26.0                 | 30.0  | 26.0                | 26.0  | 22.0              | 19.0  | 69.0                  | 49.0   | -             | -     | 9.0                  | 8.0   | 12.0                  | 18.5  |
| 25      | 12.0                 | 21.0  | 26.0                 | 31.0  | 19.0                | 26.0  | 17.0              | 19.0  | 81.0                  | 49.0   | -             | -     | 8.0                  | 5.0   | 11.0                  | 19.0  |
| 26      | 10.0                 | 20.0  | 26.0                 | 31.0  | 19.0                | 24.0  | 16.0              | 17.0  | 72.0                  | 34.0   | -             | -     | 8.0                  | 7.0   | 10.0                  | 18.0  |
| 27      | 10.0                 | 20.0  | 26.0                 | 31.0  | 21.0                | 26.0  | 19.0              | 19.0  | 82.0                  | 49.0   | -             | -     | 10.0                 | 4.0   | 10.0                  | 18.0  |
| 28      | 11.0                 | 19.0  | 27.0                 | 31.0  | 19.0                | 26.0  | 17.0              | 18.0  | 81.0                  | 42.0   | -             | -     | 10.0                 | 5.0   | 10.0                  | 18.0  |
| 29      | 10.0                 | 20.0  | 26.0                 | 31.0  | 18.0                | 26.0  | 14.0              | 19.0  | 62.0                  | 49.0   | -             | -     | 8.0                  | 3.0   | 10.0                  | 18.0  |
| 30      | 11.0                 | 20.0  | 27.0                 | 31.0  | 19.0                | 24.0  | 17.0              | 17.0  | 81.0                  | 34.0   | -             | -     | 10.0                 | 2.0   | 11.0                  | 19.0  |
| 31      | 12.0                 |       | 25.0                 |       | 29.0                |       | 21.0              |       | 46.0                  |        | -             |       | 7.0                  |       | 12.0                  |       |
| Total   | 396.0                | 640.0 | 798.0                | 975.0 | 663.0               | 777.0 | 582.0             | 610.0 | 2395.0                | 1790.0 | -             | - *   | 255.0                | 159.0 | 390.5                 | 609.5 |
| Average | 12.8                 | 20.6  | 25.7                 | 31.5  | 21.4                | 25.1  | 18.8              | 19.7  | 77.3                  | 57.7   |               |       |                      |       | 12.6                  | 19.7  |
|         | 16.7                 |       | 28.6                 |       | 23.2                |       | 19.2              |       | 67.5                  |        | 0.0 *         |       | 414.0                |       | 16.1                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 19.0  |                      | 31.5  |                     | 27.0  |                   | 18.0  |                       | 38.0   |               | ..    |                      | 4.0   |                       | 18.5  |
| 1       | 13.0                 | 20.0  | 24.0                 | 30.0  | 19.0                | 24.0  | 17.0              | 19.0  | 81.0                  | 60.0   | -             | -     | 8.0                  | 4.0   | 12.0                  | 19.5  |
| 2       | 13.0                 | 17.0  | 25.0                 | 29.0  | 16.0                | 23.0  | 14.0              | 18.0  | 79.0                  | 52.0   | -             | -     | 11.0                 | 4.0   | 12.5                  | 19.0  |
| 3       | 11.0                 | 19.0  | 25.0                 | 29.0  | 22.0                | 22.0  | 19.0              | 16.0  | 74.0                  | 50.0   | -             | -     | 10.0                 | 6.0   | 11.0                  | 17.5  |
| 4       | 10.0                 | 9.0   | 23.0                 | 28.0  | 18.0                | 21.0  | 15.0              | 15.0  | 31.0                  | 49.0   | -             | -     | 7.0                  | 8.0   | 8.5                   | 16.0  |
| 5       | 9.0                  | 18.0  | 23.0                 | 29.0  | 18.0                | 23.0  | 16.0              | 16.0  | 80.0                  | 43.0   | -             | -     | 7.0                  | 6.0   | 8.0                   | 16.0  |
| 6       | 9.0                  | 17.0  | 27.0                 | 29.0  | 22.0                | 23.0  | 19.0              | 16.0  | 74.0                  | 45.0   | -             | -     | 9.0                  | 6.0   | 8.0                   | 17.0  |
| 7       | 10.0                 | 17.0  | 23.0                 | 23.0  | 18.0                | 23.0  | 16.0              | 17.0  | 80.0                  | 52.0   | -             | -     | 10.0                 | 8.0   | 9.0                   | 17.0  |
| 8       | 9.0                  | 19.0  | 24.0                 | 30.0  | 18.0                | 24.0  | 16.0              | 17.0  | 80.0                  | 46.0   | -             | -     | 8.0                  | 6.0   | 9.0                   | 17.0  |
| 9       | 9.0                  | 18.0  | 24.0                 | 30.0  | 22.0                | 24.0  | 19.0              | 17.0  | 74.0                  | 46.0   | -             | -     | 10.0                 | 6.0   | 8.5                   | 17.0  |
| 10      | 8.0                  | 18.0  | 25.0                 | 30.0  | 19.0                | 25.0  | 17.0              | 17.0  | 81.0                  | 41.0   | -             | -     | 8.0                  | 8.0   | 8.0                   | 17.0  |
| 11      | 9.0                  | 21.0  | 31.0                 | 31.0  | 26.0                | 25.0  | 22.0              | 17.0  | 84.0                  | 41.0   | -             | -     | 10.0                 | 10.0  | 19.0                  | 18.0  |
| 12      | 10.0                 | 19.0  | 25.0                 | 31.0  | 16.0                | 26.0  | 14.0              | 18.0  | 79.0                  | 42.0   | -             | -     | 10.0                 | 10.0  | 10.0                  | 19.0  |
| 13      | 12.0                 | 18.0  | 26.0                 | 29.0  | 19.0                | 25.0  | 17.0              | 18.0  | 81.0                  | 47.0   | -             | -     | 10.0                 | 10.0  | 11.0                  | 20.0  |
| 14      | 12.0                 | 19.0  | 25.0                 | 31.0  | 18.0                | 27.0  | 16.0              | 20.0  | 80.0                  | 50.0   | -             | -     | 10.0                 | 8.0   | 12.0                  | 20.0  |
| 15      | 11.0                 | 21.0  | 27.0                 | 33.0  | 21.0                | 25.0  | 19.0              | 18.0  | 82.0                  | 47.0   | -             | -     | 10.0                 | 12.0  | 11.0                  | 19.0  |
| 16      | 11.0                 | 18.0  | 27.0                 | 31.0  | 21.0                | 26.0  | 19.0              | 18.0  | 82.0                  | 42.0   | -             | -     | 11.0                 | 8.0   | 10.5                  | 19.0  |
| 17      | 9.0                  | 20.0  | 27.0                 | 32.0  | 20.0                | 27.0  | 18.0              | 19.0  | 81.0                  | 44.0   | -             | -     | 10.0                 | 9.0   | 9.0                   | 18.0  |
| 18      | 9.0                  | 21.0  | 28.0                 | 33.0  | 19.0                | 26.0  | 17.0              | 19.0  | 81.0                  | 49.0   | -             | -     | 12.0                 | 8.0   | 8.5                   | 18.0  |
| 19      | 11.0                 | 22.0  | 27.0                 | 33.0  | 16.0                | 27.0  | 14.0              | 20.0  | 79.0                  | 50.0   | -             | -     | 12.0                 | 6.0   | 10.0                  | 20.0  |
| 20      | 12.0                 | 22.0  | 27.0                 | 33.0  | 21.0                | 27.0  | 20.0              | 20.0  | 91.0                  | 50.0   | -             | -     | 10.0                 | 8.0   | 12.0                  | 21.0  |
| 21      | 13.0                 | 22.0  | 28.0                 | 32.0  | 21.0                | 27.0  | 19.0              | 20.0  | 82.0                  | 50.0   | -             | -     | 10.0                 | 6.0   | 12.0                  | 21.0  |
| 22      | 13.0                 | 21.0  | 27.0                 | 33.0  | 22.0                | 27.0  | 20.0              | 20.0  | 82.0                  | 50.0   | -             | -     | 10.0                 | 10.0  | 12.0                  | 21.0  |
| 23      | 13.0                 | 21.0  | 28.0                 | 32.0  | 22.0                | 27.0  | 19.0              | 20.0  | 47.0                  | 50.0   | -             | -     | 10.0                 | 8.0   | 12.0                  | 21.5  |
| 24      | 14.0                 | 21.0  | 28.0                 | 32.0  | 20.0                | 26.0  | 18.0              | 19.0  | 81.0                  | 49.0   | -             | -     | 12.0                 | 10.0  | 14.0                  | 21.0  |
| 25      | 12.0                 | 22.0  | 26.0                 | 31.0  | 19.0                | 26.0  | 18.0              | 19.0  | 90.0                  | 49.0   | -             | -     | 12.0                 | 10.0  | 12.0                  | 20.0  |
| 26      | 11.0                 | 20.0  | 26.0                 | 31.0  | 20.0                | 25.0  | 18.0              | 18.0  | 81.0                  | 47.0   | -             | -     | 10.0                 | 8.0   | 11.0                  | 19.0  |
| 27      | 10.0                 | 19.0  | 26.0                 | 31.0  | 16.0                | 25.0  | 15.0              | 18.0  | 89.0                  | 47.0   | -             | -     | 11.0                 | 7.0   | 10.0                  | 19.0  |
| 28      | 10.0                 | 20.0  | 27.0                 | 32.0  | 21.0                | 27.0  | 19.0              | 20.0  | 82.0                  | 50.0   | -             | -     | 12.0                 | 8.0   | 10.0                  | 19.5  |
| 29      | 11.0                 | 19.0  | 29.0                 | 32.0  | 23.0                | 26.0  | 21.0              | 20.0  | 83.0                  | 55.0   | -             | -     | 12.0                 | 8.0   | 10.0                  | 20.0  |
| 30      | 11.0                 | 21.0  | 28.0                 | 33.0  | 22.0                | 27.0  | 21.0              | 20.0  | 91.0                  | 50.0   | -             | -     | 14.0                 | 12.0  | 11.0                  | 21.0  |
| 31      | 12.0                 |       | 28.0                 |       | 21.0                |       | 19.0              |       | 82.0                  |        | -             |       | 14.0                 |       | 12.0                  |       |
| Total   | 337.0                | 598.0 | 814.0                | 954.5 | 616.0               | 783.0 | 551.0             | 567.0 | 2444.0                | 1481.0 | -             | - *   | 320.0                | 242.0 | 333.5                 | 586.5 |
| Average | 10.9                 | 19.3  | 26.3                 | 30.8  | 19.9                | 25.3  | 17.8              | 18.3  | 78.8                  | 47.8   |               |       |                      |       | 10.8                  | 18.9  |
|         | 15.1                 |       | 28.5                 |       | 22.6                |       | 18.0              |       | 63.3                  |        | 0.0 *         |       | 562.0                |       | 14.8                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 22.0  |                      | 33.0  |                     | 27.0  |                   | 20.0  |                       | 50.0   |               | ..    |                      | 16.0  |                       | 21.0  |
| 1       | 13.0                 | 25.0  | 30.0                 | 34.0  | 26.0                | 28.0  | 23.0              | 21.0  | 76.0                  | 51.0   | -             | -     | 14.0                 | 14.0  | 13.0                  | 22.5  |
| 2       | 13.0                 | 23.0  | 29.0                 | 35.0  | 23.0                | 29.0  | 21.0              | 22.0  | 83.0                  | 52.0   | -             | -     | 14.0                 | 12.0  | 13.0                  | 22.0  |
| 3       | 14.0                 | 24.0  | 35.0                 | 35.0  | 22.0                | 30.0  | 20.0              | 23.0  | 82.0                  | 53.0   | -             | -     | 12.0                 | 10.0  | 13.0                  | 23.0  |
| 4       | 16.0                 | 24.0  | 30.0                 | 36.0  | 22.0                | 30.0  | 20.0              | 24.0  | 82.0                  | 59.0   | -             | -     | 12.0                 | 12.0  | 15.0                  | 24.0  |
| 5       | 17.0                 | 25.0  | 31.0                 | 35.0  | 25.0                | 30.0  | 22.0              | 23.0  | 76.0                  | 53.0   | -             | -     | 13.0                 | 4.0   | 15.0                  | 29.0  |
| 6       | 17.0                 | 24.0  | 30.0                 | 35.0  | 22.0                | 30.0  | 20.0              | 24.0  | 82.0                  | 59.0   | -             | -     | 14.0                 | 5.0   | 17.0                  | 25.0  |
| 7       | 18.0                 | 21.0  | 30.0                 | 29.0  | 25.0                | 25.0  | 22.0              | 19.0  | 76.0                  | 74.0   | -             | -     | 13.0                 | 8.0   | 18.0                  | 21.5  |
| 8       | 16.0                 | 20.0  | 25.0                 | 29.0  | 20.0                | 29.0  | 18.0              | 23.0  | 81.0                  | 58.0   | -             | -     | 12.0                 | 8.0   | 15.5                  | 23.0  |
| 9       | 18.0                 | 19.0  | 27.0                 | 34.0  | 23.0                | 28.0  | 21.0              | 21.0  | 83.0                  | 51.0   | -             | -     | 14.0                 | 10.0  | 15.0                  | 25.5  |
| 10      | 20.0                 | 19.0  | 27.0                 | 29.0  | 24.0                | 25.0  | 22.0              | 19.0  | 83.0                  | 54.0   | -             | -     | 15.0                 | 8.0   | 16.0                  | 22.0  |
| 11      | 23.0                 | 18.0  | 29.0                 | 30.0  | 23.0                | 24.0  | 19.0              | 18.0  | 67.0                  | 53.0   | -             | 8.4   | 13.0                 | 6.0   | 15.5                  | 23.0  |
| 12      | 20.0                 | 19.0  | 29.0                 | 29.0  | 24.0                | 25.0  | 19.0              | 18.0  | 60.0                  | 53.0   | -             | 15.2  | 15.0                 | 64.0  | 16.0                  | 22.0  |
| 13      | 16.0                 | 18.0  | 21.0                 | 26.0  | 20.0                | 19.0  | 18.0              | 18.0  | 81.0                  | 90.0   | -             | -     | 10.0                 | 130.0 | 16.0                  | 18.5  |
| 14      | 14.0                 | 15.0  | 19.0                 | 29.0  | 16.0                | 24.0  | 15.0              | 19.0  | 89.0                  | 59.0   | 2.2           | -     | 18.0                 | 8.0   | 15.5                  | 23.0  |
| 15      | 13.0                 | 23.0  | 27.0                 | 32.0  | 21.5                | 25.0  | 21.0              | 20.0  | 95.0                  | 61.0   | -             | -     | 11.0                 | 10.0  | 13.0                  | 22.0  |
| 16      | 13.0                 | 24.0  | 29.0                 | 33.0  | 24.0                | 27.0  | 23.0              | 21.0  | 91.0                  | 56.0   | -             | -     | 10.0                 | 10.0  | 13.0                  | 23.0  |
| 17      | 14.0                 | 23.0  | 28.0                 | 34.0  | 20.0                | 28.0  | 19.0              | 22.0  | 91.0                  | 57.0   | -             | -     | 10.0                 | 9.0   | 13.5                  | 23.0  |
| 18      | 14.0                 | 23.0  | 29.0                 | 34.0  | 22.0                | 29.0  | 20.0              | 23.0  | 82.0                  | 58.0   | -             | -     | 12.0                 | 8.0   | 13.5                  | 24.0  |
| 19      | 16.0                 | 26.0  | 30.0                 | 35.0  | 25.0                | 30.0  | 22.0              | 23.0  | 76.0                  | 53.0   | -             | -     | 12.0                 | 10.0  | 16.0                  | 24.0  |
| 20      | 17.0                 | 24.0  | 35.0                 | 36.0  | 24.0                | 30.0  | 22.0              | 22.0  | 83.0                  | 50.0   | -             | -     | 14.0                 | 14.0  | 17.0                  | 25.0  |
| 21      | 15.0                 | 27.0  | 30.0                 | 36.0  | 25.0                | 30.0  | 23.0              | 23.0  | 84.0                  | 53.0   | -             | -     | 15.0                 | 14.0  | 14.5                  | 25.0  |
| 22      | 16.0                 | 27.0  | 31.0                 | 37.0  | 25.0                | 32.0  | 23.0              | 24.0  | 84.0                  | 49.0   | -             | -     | 16.0                 | 17.0  | 14.5                  | 26.0  |
| 23      | 17.0                 | 28.0  | 32.0                 | 38.0  | 24.0                | 32.0  | 21.0              | 25.0  | 75.0                  | 55.0   | -             | -     | 16.0                 | 12.0  | 16.0                  | 27.0  |
| 24      | 18.0                 | 28.0  | 32.0                 | 39.0  | 28.0                | 32.0  | 25.0              | 26.0  | 85.0                  | 61.0   | -             | 2.6   | 16.0                 | 12.0  | 18.0                  | 28.0  |
| 25      | 21.0                 | 24.0  | 33.0                 | 35.0  | 25.0                | 25.0  | 23.0              | 22.0  | 84.0                  | 76.0   | -             | -     | 12.0                 | 17.0  | 21.0                  | 25.0  |
| 26      | 17.0                 | 27.0  | 28.0                 | 35.0  | 27.0                | 30.0  | 25.0              | 23.0  | 84.0                  | 53.0   | 3.2           | -     | 20.0                 | 13.0  | 17.5                  | 27.0  |
| 27      | 16.0                 | 34.0  | 34.0                 | 37.0  | 30.0                | 30.0  | 27.0              | 24.0  | 78.0                  | 53.0   | -             | -     | 14.0                 | 14.0  | 16.5                  | 26.5  |
| 28      | 17.0                 |       | 35.0                 |       | 32.0                |       | 24.0              |       | 78.0                  |        | -             |       | 16.0                 |       | 17.5                  |       |
| Total   | 459.0                | 654.0 | 825.0                | 939.0 | 667.5               | 783.0 | 598.0             | 610.0 | 2271.0                | 1604.0 | 5.4           | 26.2  | 383.0                | 475.0 | 435.0                 | 670.5 |
| Average | 16.4                 | 23.4  | 29.5                 | 33.5  | 23.8                | 28.0  | 21.4              | 21.8  | 81.1                  | 57.3   |               |       |                      |       | 15.5                  | 23.9  |
|         | 19.9                 |       | 31.5                 |       | 25.9                |       | 21.6              |       | 69.2                  |        | 31.6 *        |       | 858.0                |       | 19.7                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 30.0  |                      | 38.0   |                     | 30.0   |                   | 24.0  |                       | 49.0   |               | ..    |                      | 18.0  |                       | 28.0  |
| 1       | 18.0                 | 28.0  | 33.0                 | 39.0   | 28.0                | 34.0   | 25.0              | 25.0  | 85.0                  | 46.0   | -             | -     | 16.0                 | 16.0  | 18.0                  | 28.0  |
| 2       | 19.0                 | 28.0  | 33.0                 | 40.0   | 30.0                | 34.0   | 26.0              | 26.0  | 72.0                  | 51.0   | -             | -     | 18.0                 | 16.0  | 19.0                  | 28.0  |
| 3       | 20.0                 | 31.0  | 34.0                 | 40.0   | 32.0                | 34.0   | 28.0              | 26.0  | 73.0                  | 51.0   | -             | -     | 18.0                 | 20.0  | 20.0                  | 29.0  |
| 4       | 19.0                 | 28.0  | 29.0                 | 40.0   | 27.0                | 34.0   | 23.0              | 26.0  | 70.0                  | 51.0   | -             | -     | 18.0                 | 18.0  | 19.0                  | 29.0  |
| 5       | 20.0                 | 21.0  | 35.0                 | 29.0   | 22.0                | 25.0   | 19.0              | 22.0  | 74.0                  | 76.0   | -             | -     | 20.0                 | 8.0   | 19.0                  | 21.5  |
| 6       | 17.0                 | 24.0  | 25.0                 | 37.0   | 24.0                | 30.0   | 22.0              | 24.0  | 83.0                  | 59.0   | -             | -     | 8.0                  | 10.0  | 17.0                  | 27.5  |
| 7       | 19.0                 | 24.0  | 29.0                 | 38.0   | 25.0                | 30.0   | 23.0              | 23.0  | 84.0                  | 47.0   | -             | -     | 10.0                 | 10.0  | 19.0                  | 27.0  |
| 8       | 19.0                 | 28.0  | 28.0                 | 37.0   | 23.0                | 26.0   | 18.0              | 24.0  | 59.0                  | 84.0   | -             | -     | 10.0                 | 5.0   | 19.0                  | 25.0  |
| 9       | 18.0                 | 25.0  | 29.0                 | 39.0   | 26.0                | 30.0   | 23.0              | 24.0  | 76.0                  | 59.0   | -             | -     | 10.0                 | 12.0  | 18.0                  | 26.0  |
| 10      | 17.0                 | 30.0  | 28.0                 | 39.0   | 32.0                | 30.0   | 28.0              | 24.0  | 73.0                  | 59.0   | -             | -     | 8.0                  | 24.0  | 18.5                  | 28.0  |
| 11      | 20.0                 | 29.0  | 32.0                 | 39.0   | 31.0                | 33.0   | 26.0              | 25.0  | 66.0                  | 50.0   | -             | -     | 24.0                 | 15.0  | 19.0                  | 29.5  |
| 12      | 21.0                 | 29.0  | 34.0                 | 40.0   | 30.0                | 34.0   | 25.0              | 26.0  | 65.0                  | 51.0   | -             | -     | 24.0                 | 39.0  | 21.0                  | 29.5  |
| 13      | 20.0                 | 31.0  | 34.0                 | 39.0   | 29.0                | 32.0   | 26.0              | 25.0  | 78.0                  | 55.0   | -             | -     | 19.0                 | 26.0  | 19.0                  | 28.0  |
| 14      | 20.0                 | 32.0  | 34.0                 | 42.0   | 33.0                | 36.0   | 28.0              | 28.0  | 68.0                  | 53.0   | -             | -     | 21.0                 | 19.0  | 19.0                  | 31.0  |
| 15      | 24.0                 | 26.0  | 37.0                 | 31.0   | 27.0                | 29.0   | 23.0              | 24.0  | 70.0                  | 64.0   | -             | -     | 26.0                 | 13.0  | 22.5                  | 25.0  |
| 16      | 21.0                 | 28.0  | 32.0                 | 35.0   | 29.0                | 31.0   | 26.0              | 26.0  | 78.0                  | 66.0   | -             | -     | 10.0                 | 20.0  | 21.5                  | 27.5  |
| 17      | 20.0                 | 25.0  | 30.0                 | 38.0   | 27.0                | 32.0   | 23.0              | 26.0  | 70.0                  | 61.0   | -             | -     | 23.0                 | 18.0  | 20.0                  | 29.0  |
| 18      | 19.0                 | 27.0  | 33.0                 | 39.0   | 27.0                | 32.0   | 22.0              | 29.0  | 63.0                  | 79.0   | -             | -     | 27.0                 | 23.0  | 19.5                  | 30.0  |
| 19      | 19.0                 | 26.0  | 33.0                 | 40.0   | 30.0                | 32.0   | 27.0              | 25.0  | 78.0                  | 55.0   | -             | -     | 27.0                 | 29.0  | 19.0                  | 29.5  |
| 20      | 20.0                 | 27.0  | 37.0                 | 41.0   | 26.0                | 34.0   | 22.0              | 26.0  | 69.0                  | 51.0   | -             | -     | 24.0                 | 26.0  | 19.0                  | 30.0  |
| 21      | 23.0                 | 25.0  | 35.0                 | 37.0   | 27.0                | 32.0   | 23.0              | 26.0  | 70.0                  | 61.0   | -             | -     | 24.0                 | 23.0  | 21.0                  | 28.5  |
| 22      | 21.0                 | 26.0  | 31.0                 | 40.0   | 27.0                | 34.0   | 23.0              | 26.0  | 70.0                  | 51.0   | 3.2           | -     | 17.0                 | 21.0  | 21.5                  | 31.5  |
| 23      | 20.0                 | 26.0  | 35.0                 | 41.0   | 26.0                | 34.0   | 21.0              | 27.0  | 62.0                  | 56.0   | -             | -     | 21.0                 | 22.0  | 20.0                  | 31.5  |
| 24      | 21.0                 | 27.0  | 36.0                 | 41.0   | 28.0                | 34.0   | 23.0              | 26.0  | 64.0                  | 51.0   | -             | -     | 21.0                 | 25.0  | 21.0                  | 31.5  |
| 25      | 20.0                 | 28.0  | 35.0                 | 40.0   | 27.0                | 34.0   | 23.0              | 26.0  | 70.0                  | 51.0   | -             | -     | 22.0                 | 24.0  | 20.0                  | 31.0  |
| 26      | 20.0                 | 27.0  | 34.0                 | 41.0   | 26.0                | 34.0   | 22.0              | 27.0  | 69.0                  | 56.0   | -             | -     | 22.0                 | 30.0  | 20.0                  | 31.0  |
| 27      | 20.0                 | 28.0  | 35.0                 | 42.0   | 27.0                | 35.0   | 22.0              | 27.0  | 63.0                  | 52.0   | -             | -     | 27.0                 | 30.0  | 20.0                  | 31.0  |
| 28      | 20.5                 | 29.0  | 36.0                 | 43.0   | 28.0                | 36.0   | 23.0              | 28.0  | 64.0                  | 53.0   | -             | -     | 21.0                 | 28.0  | 20.0                  | 32.0  |
| 29      | 21.0                 | 29.0  | 37.0                 | 43.0   | 28.0                | 36.0   | 23.0              | 28.0  | 64.0                  | 53.0   | -             | -     | 27.0                 | 27.0  | 21.0                  | 31.0  |
| 30      | 21.0                 | 28.0  | 38.0                 | 43.0   | 27.0                | 38.0   | 23.0              | 30.0  | 70.0                  | 54.0   | -             | -     | 26.0                 | 50.0  | 20.0                  | 31.5  |
| 31      | 23.0                 |       | 31.0                 |        | 28.0                |        | 24.0              |       | 70.0                  |        | -             |       | 30.0                 |       | 23.0                  |       |
| Total   | 620.5                | 850.0 | 1022.0               | 1211.0 | 857.0               | 1009.0 | 733.0             | 799.0 | 2190.0                | 1755.0 | 3.2           | - *   | 619.0                | 665.0 | 613.5                 | 896.5 |
| Average | 20.0                 | 27.4  | 33.0                 | 39.1   | 27.6                | 32.5   | 23.6              | 25.8  | 70.6                  | 56.6   |               |       |                      |       | 19.8                  | 28.9  |
|         | 23.7                 |       | 36.0                 |        | 30.1                |        | 24.7              |       | 63.6                  |        | 3.2 *         |       | 1284.0               |       | 24.4                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |               |       |                      |        |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------|-------|----------------------|--------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 |
| LPM     |                      | 30.0  |                      | 44.0   |                     | 38.0   |                   | 29.0  |                       | 50.0   |               | ..    |                      | 32.0   |                       | 33.0  |
| 1       | 29.0                 | 22.0  | 38.0                 | 30.0   | 29.0                | 29.0   | 24.0              | 25.0  | 64.0                  | 71.0   | -             | -     | 30.0                 | 22.0   | 24.0                  | 27.0  |
| 2       | 28.0                 | 22.0  | 41.0                 | 36.0   | 25.0                | 34.0   | 22.0              | 28.0  | 76.0                  | 62.0   | -             | -     | 16.0                 | 18.0   | 20.0                  | 27.0  |
| 3       | 24.0                 | 31.0  | 36.0                 | 42.0   | 28.0                | 36.0   | 24.0              | 29.0  | 70.0                  | 58.0   | -             | -     | 22.0                 | 22.0   | 22.5                  | 32.0  |
| 4       | 26.0                 | 33.0  | 33.0                 | 43.0   | 29.0                | 36.0   | 25.0              | 29.0  | 71.0                  | 58.0   | -             | -     | 27.0                 | 30.0   | 24.0                  | 31.0  |
| 5       | 27.0                 | 32.0  | 42.0                 | 38.0   | 30.0                | 36.0   | 26.0              | 30.0  | 72.0                  | 63.0   | -             | -     | 32.0                 | 24.0   | 24.0                  | 33.0  |
| 6       | 28.0                 | 32.0  | 42.0                 | 42.0   | 30.0                | 36.0   | 26.0              | 30.0  | 72.0                  | 63.0   | -             | -     | 32.0                 | 37.0   | 24.0                  | 33.0  |
| 7       | 29.0                 | 33.0  | 36.0                 | 38.0   | 31.0                | 37.0   | 27.0              | 30.0  | 73.0                  | 59.0   | -             | -     | 25.0                 | 26.0   | 25.5                  | 32.5  |
| 8       | 28.0                 | 30.0  | 36.0                 | 38.0   | 28.0                | 30.0   | 25.0              | 27.0  | 77.0                  | 78.0   | -             | -     | 29.0                 | 27.0   | 23.5                  | 30.0  |
| 9       | 27.0                 | 28.0  | 29.0                 | 37.0   | 24.0                | 33.0   | 23.0              | 28.0  | 91.0                  | 68.0   | 1.4           | -     | 6.0                  | 27.0   | 23.5                  | 30.5  |
| 10      | 27.0                 | 30.0  | 31.0                 | 39.0   | 27.0                | 36.0   | 25.0              | 30.0  | 84.0                  | 63.0   | -             | -     | 22.0                 | 31.0   | 24.0                  | 35.0  |
| 11      | 28.0                 | 32.0  | 36.0                 | 39.0   | 30.0                | 34.0   | 27.0              | 30.0  | 78.0                  | 74.0   | -             | -     | 31.0                 | 34.0   | 25.0                  | 33.0  |
| 12      | 28.0                 | 28.0  | 34.0                 | 33.0   | 27.0                | 33.0   | 24.0              | 29.0  | 77.0                  | 74.0   | -             | -     | 20.0                 | 20.0   | 24.0                  | 31.5  |
| 13      | 26.0                 | 31.0  | 32.0                 | 37.0   | 28.0                | 35.0   | 25.0              | 30.0  | 77.0                  | 70.0   | -             | -     | 19.0                 | 20.0   | 24.0                  | 33.0  |
| 14      | 27.0                 | 32.0  | 33.0                 | 38.0   | 29.0                | 30.0   | 27.0              | 28.0  | 85.0                  | 85.0   | -             | -     | 26.0                 | 43.0   | 25.0                  | 31.0  |
| 15      | 25.0                 | 31.0  | 29.0                 | 37.0   | 28.0                | 29.0   | 25.0              | 27.0  | 77.0                  | 85.0   | -             | -     | 22.0                 | 31.0   | 24.0                  | 29.5  |
| 16      | 26.0                 | 31.0  | 28.0                 | 40.0   | 28.0                | 38.0   | 25.0              | 32.0  | 77.0                  | 64.0   | -             | -     | 20.0                 | 33.0   | 23.0                  | 35.0  |
| 17      | 28.0                 | 34.0  | 36.0                 | 43.0   | 32.0                | 37.0   | 30.0              | 32.0  | 86.0                  | 70.0   | -             | -     | 27.0                 | 35.0   | 25.5                  | 35.0  |
| 18      | 27.0                 | 33.0  | 36.0                 | 42.0   | 32.0                | 38.0   | 28.0              | 32.0  | 73.0                  | 64.0   | -             | -     | 26.0                 | 42.0   | 25.0                  | 35.5  |
| 19      | 28.0                 | 34.0  | 37.0                 | 43.0   | 32.0                | 39.0   | 28.0              | 33.0  | 73.0                  | 55.0   | -             | -     | 22.0                 | 45.0   | 24.5                  | 34.0  |
| 20      | 28.0                 | 35.0  | 36.0                 | 41.0   | 30.0                | 40.0   | 25.0              | 34.0  | 65.0                  | 56.0   | -             | -     | 52.0                 | 42.0   | 24.0                  | 34.5  |
| 21      | 30.0                 | 36.0  | 38.0                 | 44.0   | 34.0                | 39.0   | 29.0              | 32.0  | 68.0                  | 61.0   | -             | -     | 37.0                 | 44.0   | 26.5                  | 35.0  |
| 22      | 31.0                 | 37.0  | 38.0                 | 43.0   | 39.0                | 38.0   | 33.0              | 32.0  | 65.0                  | 64.0   | -             | -     | 30.0                 | 43.0   | 27.0                  | 34.5  |
| 23      | 29.0                 | 33.0  | 37.0                 | 42.0   | 30.0                | 38.0   | 26.0              | 31.0  | 72.0                  | 59.0   | -             | -     | 42.0                 | 38.0   | 24.0                  | 35.5  |
| 24      | 27.0                 | 32.0  | 37.0                 | 42.0   | 29.0                | 37.0   | 25.0              | 31.0  | 71.0                  | 64.0   | -             | -     | 40.0                 | 42.0   | 22.5                  | 34.0  |
| 25      | 27.0                 | 34.0  | 36.0                 | 42.0   | 30.0                | 38.0   | 25.0              | 31.0  | 65.0                  | 59.0   | -             | -     | 37.0                 | 45.0   | 23.0                  | 32.0  |
| 26      | 27.0                 | 33.0  | 37.0                 | 43.0   | 30.0                | 39.0   | 26.0              | 32.0  | 72.0                  | 61.0   | -             | -     | 38.0                 | 36.0   | 23.0                  | 38.0  |
| 27      | 30.0                 | 35.0  | 38.0                 | 43.0   | 32.0                | 40.0   | 29.0              | 34.0  | 79.0                  | 66.0   | -             | -     | 40.0                 | 40.0   | 26.0                  | 35.5  |
| 28      | 29.0                 | 38.0  | 38.0                 | 43.0   | 38.0                | 40.0   | 34.0              | 34.0  | 75.0                  | 66.0   | -             | -     | 38.0                 | 39.0   | 27.0                  | 36.0  |
| 29      | 30.0                 | 35.0  | 39.0                 | 44.0   | 30.0                | 40.0   | 30.0              | 34.0  | 86.0                  | 66.0   | -             | -     | 36.0                 | 44.0   | 28.0                  | 34.5  |
| 30      | 30.0                 |       | 38.0                 |        | 32.0                |        | 30.0              |       | 86.0                  |        | -             |       | 37.0                 |        | 28.0                  |       |
| Total   | 834.0                | 957.0 | 1077.0               | 1206.0 | 901.0               | 1083.0 | 798.0             | 913.0 | 2257.0                | 1956.0 | 1.4           | - *   | 881.0                | 1012.0 | 734.0                 | 991.0 |
| Average | 27.8                 | 31.9  | 35.9                 | 40.2   | 30.0                | 36.1   | 26.6              | 30.4  | 75.2                  | 65.2   |               |       |                      |        | 24.5                  | 33.0  |
|         | 29.9                 |       | 38.1                 |        | 33.1                |        | 28.5              |       | 70.2                  |        | 1.4 *         |       | 1893.0               |        | 28.8                  |       |

## Twice Daily Climatic Data

Station Code : EMM00T7

Local River/Basin : Hasdeo

Station Name : Manendragarh

Sub-Division : Raipur

- 0.0 .. N.A.

| May-18  |                      |        |                      |        |                     |        |                   |        |                       |        |               |       |                      |       |                       |        |
|---------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|--------|-----------------------|--------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |        | Relative Humidity (%) |        | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30  | 08:30                 | 17:30  | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 35.0   |                      | 42.0   |                     | 38.0   |                   | 32.0   |                       | 64.0   |               | ..    |                      | 37.0  |                       | 36.0   |
| 1       | 31.0                 | 36.0   | 38.0                 | 43.0   | 32.0                | 40.0   | 30.0              | 34.0   | 86.0                  | 66.0   | -             | -     | 3.8                  | 4.2   | 26.0                  | 36.0   |
| 2       | 31.0                 | 36.0   | 37.0                 | 43.0   | 34.0                | 36.0   | 32.0              | 34.0   | 86.0                  | 87.0   | -             | -     | 4.0                  | 4.6   | 27.0                  | 36.0   |
| 3       | 29.0                 | 30.0   | 36.0                 | 38.0   | 28.0                | 36.0   | 25.0              | 32.0   | 76.0                  | 75.0   | -             | -     | 4.0                  | 0.8   | 26.0                  | 35.5   |
| 4       | 29.0                 | 36.0   | 35.0                 | 41.0   | 36.0                | 32.0   | 32.0              | 30.0   | 75.0                  | 87.0   | -             | -     | 3.2                  | 4.4   | 28.0                  | 33.0   |
| 5       | 29.0                 | 36.0   | 33.0                 | 43.0   | 36.0                | 44.0   | 34.0              | 34.0   | 86.0                  | 50.0   | -             | -     | 2.5                  | 4.7   | 28.0                  | 36.0   |
| 6       | 29.0                 | 38.0   | 38.0                 | 43.0   | 38.0                | 40.0   | 34.0              | 34.0   | 75.0                  | 66.0   | -             | -     | 3.0                  | 4.4   | 29.0                  | 35.0   |
| 7       | 32.0                 | 39.0   | 39.0                 | 45.0   | 38.0                | 40.0   | 32.0              | 34.0   | 64.0                  | 66.0   | -             | -     | 3.6                  | 5.2   | 28.0                  | 37.0   |
| 8       | 31.0                 | 38.0   | 40.0                 | 45.0   | 36.0                | 40.0   | 32.0              | 34.0   | 75.0                  | 66.0   | -             | -     | 3.7                  | 5.4   | 27.0                  | 37.0   |
| 9       | 32.0                 | 37.0   | 39.0                 | 44.0   | 34.0                | 40.0   | 30.0              | 34.0   | 74.0                  | 66.0   | -             | -     | 3.6                  | 4.8   | 27.5                  | 36.5   |
| 10      | 32.0                 | 39.0   | 39.0                 | 44.0   | 40.0                | 40.0   | 34.0              | 34.0   | 66.0                  | 66.0   | -             | -     | 3.8                  | 5.1   | 28.0                  | 36.5   |
| 11      | 32.0                 | 38.0   | 39.0                 | 45.0   | 36.0                | 40.0   | 32.0              | 34.0   | 75.0                  | 66.0   | -             | -     | 3.9                  | 5.7   | 28.0                  | 36.0   |
| 12      | 31.0                 | 38.0   | 39.0                 | 45.0   | 36.0                | 40.0   | 32.0              | 34.0   | 75.0                  | 66.0   | -             | -     | 4.0                  | 4.9   | 27.5                  | 36.5   |
| 13      | 31.0                 | 31.0   | 40.0                 | 39.0   | 34.0                | 40.0   | 32.0              | 34.0   | 86.0                  | 66.0   | -             | 2.0   | 4.0                  | 5.8   | 28.0                  | 34.0   |
| 14      | 28.0                 | 28.0   | 36.0                 | 35.0   | 30.0                | 26.0   | 28.0              | 24.0   | 85.0                  | 84.0   | 8.0           | -     | 4.4                  | 0.8   | 25.0                  | 29.0   |
| 15      | 26.0                 | 32.0   | 28.0                 | 37.0   | 30.0                | 36.0   | 28.0              | 32.0   | 85.0                  | 75.0   | 2.2           | -     | 0.2                  | 3.0   | 25.0                  | 35.0   |
| 16      | 30.0                 | 34.0   | 34.0                 | 42.0   | 30.0                | 40.0   | 28.0              | 34.0   | 85.0                  | 66.0   | -             | -     | 2.4                  | 4.2   | 27.5                  | 36.5   |
| 17      | 31.0                 | 37.0   | 38.0                 | 42.0   | 36.0                | 40.0   | 32.0              | 34.0   | 75.0                  | 66.0   | -             | 3.2   | 3.2                  | 3.6   | 29.0                  | 35.5   |
| 18      | 31.0                 | 32.0   | 38.0                 | 41.0   | 33.0                | 31.0   | 30.0              | 28.0   | 80.0                  | 79.0   | -             | -     | 3.4                  | 1.0   | 27.5                  | 32.0   |
| 19      | 29.0                 | 32.0   | 31.0                 | 40.0   | 30.0                | 36.0   | 28.0              | 32.0   | 85.0                  | 75.0   | -             | -     | 1.9                  | 3.0   | 26.5                  | 38.0   |
| 20      | 31.0                 | 36.0   | 35.0                 | 41.0   | 35.0                | 35.0   | 32.0              | 31.0   | 81.0                  | 75.0   | -             | -     | 2.9                  | 3.3   | 29.0                  | 34.5   |
| 21      | 31.0                 | 34.0   | 34.0                 | 41.0   | 33.0                | 40.0   | 30.0              | 35.0   | 80.0                  | 71.0   | -             | -     | 1.3                  | 4.0   | 29.0                  | 37.0   |
| 22      | 32.0                 | 36.0   | 38.0                 | 43.0   | 34.0                | 41.0   | 31.0              | 36.0   | 80.0                  | 72.0   | -             | -     | 2.3                  | 4.0   | 29.5                  | 37.0   |
| 23      | 32.0                 | 36.0   | 40.0                 | 42.0   | 33.0                | 40.0   | 30.0              | 34.0   | 80.0                  | 66.0   | -             | -     | 4.0                  | 3.2   | 28.0                  | 36.0   |
| 24      | 33.0                 | 36.0   | 39.0                 | 42.0   | 34.0                | 35.0   | 32.0              | 32.0   | 86.0                  | 81.0   | -             | -     | 2.3                  | 4.5   | 30.0                  | 35.0   |
| 25      | 32.0                 | 36.0   | 34.0                 | 42.0   | 33.0                | 38.0   | 30.0              | 34.0   | 80.0                  | 75.0   | -             | -     | 3.0                  | 4.4   | 28.5                  | 37.0   |
| 26      | 32.0                 | 39.0   | 37.0                 | 44.0   | 35.0                | 36.0   | 32.0              | 34.0   | 81.0                  | 87.0   | -             | -     | 3.4                  | 4.0   | 30.0                  | 35.0   |
| 27      | 34.0                 | 36.0   | 35.0                 | 40.0   | 34.0                | 38.0   | 30.0              | 34.0   | 74.0                  | 75.0   | -             | -     | 3.0                  | 4.7   | 30.0                  | 34.5   |
| 28      | 34.0                 | 38.0   | 38.0                 | 45.0   | 36.0                | 41.0   | 32.0              | 36.0   | 75.0                  | 72.0   | -             | -     | 3.6                  | 5.3   | 30.0                  | 38.0   |
| 29      | 34.0                 | 39.0   | 40.0                 | 45.0   | 36.0                | 40.0   | 32.0              | 34.0   | 75.0                  | 66.0   | -             | -     | 3.6                  | 5.2   | 30.0                  | 37.0   |
| 30      | 34.0                 | 37.0   | 40.0                 | 42.0   | 34.0                | 34.0   | 31.0              | 30.0   | 72.0                  | 74.0   | -             | -     | 3.6                  | 5.1   | 29.5                  | 36.0   |
| 31      | 31.0                 |        | 37.0                 |        | 32.0                |        | 30.0              |        | 86.0                  |        | -             |       | 3.8                  |       | 29.0                  |        |
| Total   | 964.0                | 1105.0 | 1144.0               | 1304.0 | 1056.0              | 1173.0 | 957.0             | 1022.0 | 2444.0                | 2216.0 | 10.2          | 5.2   | 99.4                 | 160.3 | 871.0                 | 1104.0 |
| Average | 31.1                 | 35.6   | 36.9                 | 42.1   | 34.1                | 37.8   | 30.9              | 33.0   | 78.8                  | 71.5   |               |       |                      |       | 28.1                  | 35.6   |
|         | 33.4                 |        | 39.5                 |        | 36.0                |        | 31.9              |        | 75.2                  |        | 15.4 *        |       | 259.7                |       | 31.9                  |        |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 31.0  |                      | 41.0   |                     | 39.0   |                   | 26.0  |                       | 33.0   |                           | ..    |                         | 2.9   |                         | NE    |               | ..    |                      | 6.0   |                       | 35.0   |
| 1       | 30.0                 | 34.0  | 40.0                 | 42.0   | 32.0                | 37.0   | 26.0              | 27.0  | 61.0                  | 44.0   | ..                        | ..    | 1.1                     | 5.4   | NW                      | SE    | -             | -     | 6.0                  | 7.0   | 27.0                  | 36.0   |
| 2       | 29.0                 | 32.0  | 36.0                 | 43.0   | 32.0                | 40.0   | 26.0              | 27.0  | 61.0                  | 34.0   | ..                        | ..    | 1.1                     | 6.2   | SW                      | NE    | -             | -     | 6.0                  | 8.0   | 27.5                  | 38.0   |
| 3       | 30.0                 | 35.0  | 41.0                 | 44.0   | 33.0                | 35.0   | 27.0              | 30.0  | 61.5                  | 68.5   | ..                        | ..    | 1.3                     | 5.4   | SW                      | NE    | -             | -     | 7.0                  | 8.0   | 28.0                  | 35.0   |
| 4       | 33.0                 | 34.0  | 44.0                 | 45.0   | 37.0                | 36.0   | 27.0              | 28.0  | 42.0                  | 53.0   | ..                        | ..    | 2.1                     | 6.3   | SW                      | NE    | -             | -     | 7.0                  | 9.0   | 30.0                  | 36.0   |
| 5       | 31.0                 | 36.0  | 40.0                 | 47.0   | 36.0                | 43.0   | 26.0              | 27.0  | 43.0                  | 26.0   | ..                        | ..    | 2.3                     | 6.5   | SW                      | SE    | -             | -     | 8.0                  | 10.0  | 30.0                  | 38.0   |
| 6       | 30.0                 | 33.0  | 43.0                 | 40.0   | 32.0                | 37.0   | 25.0              | 26.0  | 55.0                  | 33.0   | ..                        | ..    | 2.9                     | 4.8   | NE                      | SE    | -             | -     | 8.0                  | 9.0   | 30.0                  | 37.0   |
| 7       | 29.0                 | 32.0  | 38.0                 | 42.0   | 31.0                | 38.0   | 25.0              | 26.0  | 60.0                  | 36.0   | ..                        | ..    | 1.8                     | 4.1   | NE                      | SW    | -             | -     | 7.0                  | 8.0   | 25.5                  | 34.5   |
| 8       | 27.0                 | 32.0  | 40.0                 | 41.0   | 31.0                | 37.0   | 26.0              | 25.0  | 66.0                  | 35.0   | ..                        | ..    | 3.0                     | 7.9   | SE                      | SW    | -             | -     | 6.0                  | 7.0   | 25.5                  | 32.5   |
| 9       | 29.0                 | 33.0  | 39.0                 | 42.0   | 33.0                | 39.0   | 27.0              | 26.0  | 55.0                  | 33.0   | ..                        | ..    | 0.8                     | 3.9   | NE                      | SW    | -             | -     | 4.0                  | 6.0   | 27.0                  | 35.0   |
| 10      | 29.0                 | 31.0  | 40.0                 | 40.0   | 31.0                | 38.0   | 25.0              | 26.0  | 60.0                  | 36.0   | ..                        | ..    | 2.1                     | 3.6   | SW                      | SW    | -             | -     | 4.0                  | 5.0   | 26.5                  | 29.5   |
| 11      | 29.0                 | 29.0  | 39.0                 | 39.0   | 32.0                | 28.0   | 26.0              | 25.0  | 61.0                  | 77.0   | ..                        | ..    | 3.9                     | 4.2   | NW                      | SE    | -             | 13.0  | 4.0                  | 6.0   | 28.0                  | 29.0   |
| 12      | 28.0                 | 25.0  | 29.0                 | 39.0   | 29.0                | 25.0   | 24.0              | 24.0  | 78.0                  | 92.0   | ..                        | ..    | 1.2                     | 5.7   | NE                      | SE    | -             | -     | 4.0                  | 5.0   | 25.5                  | 29.5   |
| 13      | 25.2                 | 26.0  | 33.0                 | 38.0   | 26.0                | 34.0   | 24.0              | 26.0  | 83.0                  | 51.0   | ..                        | ..    | 0.8                     | 5.4   | SE                      | SW    | 5.8           | -     | 1.8                  | 3.0   | 24.5                  | 35.5   |
| 14      | 29.0                 | 31.0  | 35.0                 | 41.0   | 31.0                | 37.0   | 26.0              | 26.0  | 66.0                  | 44.0   | ..                        | ..    | 1.1                     | 5.0   | SW                      | SE    | -             | -     | 4.0                  | 5.0   | 26.5                  | 35.0   |
| 15      | 30.0                 | 3.0   | 40.0                 | 42.0   | 32.0                | 35.0   | 26.0              | 24.0  | 61.0                  | 37.0   | ..                        | ..    | 0.5                     | 4.6   | NW                      | SE    | -             | -     | 3.0                  | 5.0   | 27.5                  | 34.0   |
| 16      | 28.0                 | 31.0  | 41.0                 | 43.0   | 29.0                | 35.0   | 25.0              | 27.0  | 71.0                  | 52.0   | ..                        | ..    | 3.4                     | 6.1   | SW                      | NE    | -             | -     | 5.0                  | 7.0   | 26.0                  | 35.0   |
| 17      | 28.0                 | 29.0  | 36.0                 | 41.0   | 35.0                | 38.0   | 26.0              | 27.0  | 45.0                  | 40.0   | ..                        | ..    | 3.5                     | 3.1   | SW                      | NE    | -             | -     | 5.0                  | 7.0   | 26.0                  | 35.0   |
| 18      | 29.0                 | 34.0  | 40.0                 | 42.0   | 35.0                | 38.0   | 27.0              | 26.0  | 52.0                  | 45.0   | ..                        | ..    | 2.1                     | 5.8   | SW                      | SW    | -             | -     | 3.0                  | 5.0   | 27.5                  | 34.0   |
| 19      | 26.0                 | 30.0  | 39.0                 | 41.0   | 30.0                | 33.0   | 26.0              | 26.0  | 72.0                  | 56.0   | ..                        | ..    | 2.4                     | 3.4   | SW                      | SE    | 2.8           | -     | 4.8                  | 5.0   | 27.5                  | 34.0   |
| 20      | 25.0                 | 27.0  | 36.0                 | 34.0   | 28.0                | 34.0   | 25.0              | 26.0  | 77.0                  | 51.0   | ..                        | ..    | 4.2                     | 5.7   | NE                      | SE    | 6.4           | -     | 8.4                  | 4.0   | 24.0                  | 33.0   |
| 21      | 25.0                 | 31.0  | 32.0                 | 37.0   | 27.0                | 26.0   | 25.0              | 24.0  | 84.0                  | 84.0   | ..                        | ..    | 1.6                     | 4.3   | SW                      | SE    | 28.0          | -     | 4.0                  | 2.0   | 24.5                  | 31.0   |
| 22      | 28.0                 | 30.0  | 28.0                 | 37.0   | 29.0                | 34.0   | 25.0              | 27.0  | 71.0                  | 56.0   | ..                        | ..    | 1.3                     | 3.8   | SW                      | NW    | 1.8           | -     | 3.8                  | 5.0   | 25.0                  | 35.5   |
| 23      | 29.0                 | 27.0  | 36.0                 | 37.0   | 26.0                | 31.0   | 25.0              | 25.0  | 84.0                  | 5.0    | ..                        | ..    | 1.4                     | 4.2   | NE                      | SE    | 54.4          | -     | 4.4                  | 4.0   | 24.5                  | 33.0   |
| 24      | 28.0                 | 29.0  | 31.0                 | 40.0   | 26.0                | 30.0   | 26.0              | 26.0  | 72.0                  | 51.0   | ..                        | ..    | 1.0                     | 2.7   | SW                      | NE    | -             | -     | 5.0                  | 6.0   | 25.5                  | 35.0   |
| 25      | 25.0                 | 31.0  | 36.0                 | 34.0   | 27.0                | 30.0   | 24.0              | 27.0  | 84.0                  | 72.0   | ..                        | ..    | 1.1                     | 2.7   | SE                      | NE    | 11.8          | -     | 1.8                  | 4.0   | 25.0                  | 31.0   |
| 26      | 30.0                 | 31.0  | 34.0                 | 34.0   | 27.0                | 28.0   | 25.0              | 26.0  | 92.0                  | 72.0   | ..                        | ..    | 1.4                     | 3.0   | NE                      | NW    | 63.0          | 3.2   | 1.0                  | 4.0   | 24.0                  | 31.0   |
| 27      | 27.0                 | 28.0  | 31.0                 | 33.0   | 27.0                | 30.0   | 25.0              | 27.0  | 84.0                  | 78.0   | ..                        | ..    | 0.9                     | 2.1   | SE                      | NW    | -             | 1.2   | 2.0                  | 4.2   | 25.5                  | 30.0   |
| 28      | 27.0                 | 27.0  | 31.0                 | 31.0   | 27.0                | 28.0   | 26.0              | 26.0  | 92.0                  | 85.0   | ..                        | ..    | 1.7                     | 3.7   | SW                      | NE    | 13.2          | 26.6  | 1.2                  | 3.2   | 25.0                  | 27.5   |
| 29      | 26.0                 | 29.0  | 29.0                 | 29.0   | 26.0                | 27.0   | 25.0              | 26.0  | 92.0                  | 92.0   | ..                        | ..    | 2.2                     | 4.3   | SW                      | NE    | 26.0          | -     | 2.0                  | 2.6   | 24.0                  | 29.0   |
| 30      | 26.0                 |       | 29.0                 |        | 28.0                |        | 26.0              |       | 85.0                  |        | ..                        |       | 1.1                     |       | SW                      |       | 0.4           |       | 2.4                  |       | 25.0                  |        |
| Total   | 845.2                | 891.0 | 1086.0               | 1179.0 | 905.0               | 1020.0 | 767.0             | 785.0 | 2070.5                | 1571.5 | .. *                      | .. *  | 55.2                    | 136.8 |                         |       | 213.6         | 44.0  | 133.6                | 170.0 | 788.0                 | 1003.5 |
| Average | 28.2                 | 29.7  | 36.2                 | 39.3   | 30.2                | 34.0   | 25.6              | 26.2  | 69.0                  | 52.4   | .. *                      | .. *  | 1.8                     | 4.6   |                         |       |               |       |                      |       | 26.3                  | 33.5   |
|         | 28.9                 |       | 37.8                 |        | 32.1                |        | 25.9              |       | 60.7                  |        | 0.0 *                     |       | 3.2                     |       |                         |       | 257.6 *       |       | 303.6                |       | 29.9                  |        |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

Jul-17

- 010 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |         | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|---------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30   | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 30.0  |                      | 30.0  |                     | 30.0  |                   | 26.0  |                       | 85.0   |                           | ..      |                         | 4.6   |                         | SW    |               | ..    |                      | 3.8   |                       | 30.0  |
| 1       | 25.0                 | 29.0  | 32.0                 | 35.0  | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | -                         | -       | 2.5                     | 3.1   | NE                      | NE    | 7.6           | -     | 0.6                  | 1.4   | 24.0                  | 30.0  |
| 2       | 26.0                 | 26.0  | 29.0                 | 32.0  | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 6.0                       | 2.0     | 1.8                     | 4.5   | NE                      | NE    | -             | 42.2  | 2.0                  | 3.0   | 24.0                  | 29.0  |
| 3       | 26.0                 | 24.0  | 30.0                 | 31.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | 2.0     | 4.2                     | 3.7   | NE                      | NE    | -             | -     | 2.0                  | 2.2   | 24.0                  | 26.0  |
| 4       | 25.0                 | 27.0  | 29.0                 | 30.0  | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 6.0                       | 8.0     | 3.2                     | 7.2   | NE                      | NE    | 0.8           | 31.4  | 1.2                  | 3.0   | 24.0                  | 27.0  |
| 5       | 24.0                 | 24.0  | 29.0                 | 33.0  | 26.0                | 24.0  | 25.0              | 23.0  | 92.0                  | 91.0   | 6.0                       | 8.0     | 4.5                     | 5.9   | NE                      | SE    | -             | -     | 3.0                  | 1.4   | 23.5                  | 28.0  |
| 6       | 28.0                 | 27.0  | 29.0                 | 34.0  | 27.0                | 29.0  | 26.0              | 25.0  | 92.0                  | 71.0   | 6.0                       | 4.0     | 2.5                     | 2.9   | SE                      | SE    | 13.8          | -     | 1.8                  | 2.0   | 24.0                  | 32.0  |
| 7       | 27.0                 | 31.0  | 30.0                 | 33.0  | 30.0                | 31.0  | 26.0              | 26.0  | 72.0                  | 65.5   | 1.0                       | 6.0     | 1.3                     | 4.4   | NE                      | SE    | -             | -     | 2.0                  | 3.0   | 26.0                  | 30.0  |
| 8       | 29.0                 | 30.0  | 32.0                 | 32.0  | 32.0                | 30.0  | 28.0              | 26.0  | 73.0                  | 72.0   | 2.0                       | 4.0     | 1.1                     | 2.5   | SE                      | NE    | 4.4           | 2.2   | 0.4                  | 2.0   | 28.0                  | 30.0  |
| 9       | 25.0                 | 27.0  | 34.0                 | 29.0  | 31.0                | 27.0  | 27.0              | 25.0  | 72.5                  | 84.0   | -                         | 4.0     | 3.1                     | 4.3   | NE                      | SE    | 1.2           | 8.4   | 2.2                  | 2.2   | 27.0                  | 26.0  |
| 10      | 25.0                 | 25.0  | 34.0                 | 34.0  | 26.0                | 26.0  | 25.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | 4.0     | 2.3                     | 2.5   | NE                      | NE    | 42.2          | -     | 2.2                  | 1.4   | 24.0                  | 25.0  |
| 11      | 25.0                 | 25.0  | 34.0                 | 34.0  | 26.0                | 28.0  | 24.0              | 25.0  | 84.0                  | 77.0   | 2.0                       | 4.0     | 1.9                     | 3.8   | NE                      | NE    | 4.0           | -     | 1.0                  | 1.0   | 24.0                  | 25.0  |
| 12      | 25.0                 | 24.0  | 28.0                 | 32.0  | 28.0                | 25.0  | 25.0              | 24.0  | 77.0                  | 92.0   | 4.0                       | -       | 1.4                     | 3.1   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 25.0                  | 24.0  |
| 13      | 25.0                 | 28.0  | 32.0                 | 33.0  | 30.0                | 30.0  | 27.0              | 26.0  | 78.0                  | 72.0   | 8.0                       | 6.0     | 0.8                     | 3.4   | NE                      | NE    | 36.6          | 0.6   | 2.2                  | 2.0   | 25.0                  | 31.0  |
| 14      | 27.0                 | 28.0  | 31.0                 | 34.0  | 28.0                | 28.0  | 25.0              | 26.0  | 77.0                  | 85.0   | -                         | 6.0     | 0.7                     | 3.2   | NE                      | NE    | -             | -     | 2.0                  | 1.4   | 25.5                  | 31.0  |
| 15      | 25.0                 | 27.0  | 28.0                 | 35.0  | 27.0                | 33.0  | 25.0              | 27.0  | 84.0                  | 61.5   | 4.0                       | -       | 1.1                     | 1.5   | NE                      | SE    | -             | -     | 2.0                  | 3.0   | 25.0                  | 32.0  |
| 16      | 26.0                 | 26.0  | 34.0                 | 32.0  | 26.0                | 31.0  | 25.0              | 28.0  | 92.0                  | 78.5   | 2.0                       | 8.0     | 2.1                     | 3.8   | SW                      | SW    | 5.0           | -     | 2.0                  | 2.0   | 25.0                  | 31.5  |
| 17      | 25.0                 | 25.0  | 28.0                 | 29.0  | 27.0                | 34.0  | 25.0              | 28.0  | 84.0                  | 62.0   | 4.0                       | 4.0     | 1.7                     | 2.9   | NW                      | SW    | 3.4           | -     | 1.4                  | 2.0   | 26.0                  | 33.0  |
| 18      | 25.0                 | 25.0  | 34.0                 | 35.0  | 29.0                | 34.0  | 26.0              | 27.0  | 78.0                  | 56.0   | 4.0                       | 4.0     | 1.4                     | 6.7   | NE                      | NE    | 2.4           | -     | 1.4                  | 2.0   | 26.0                  | 33.0  |
| 19      | 26.0                 | 29.0  | 35.0                 | 34.0  | 29.0                | 32.0  | 26.0              | 30.0  | 78.0                  | 86.0   | 4.0                       | 4.0     | 0.8                     | 3.2   | NE                      | NE    | 3.4           | 0.2   | 0.4                  | 3.0   | 28.0                  | 32.0  |
| 20      | 26.0                 | 27.0  | 34.0                 | 30.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | 6.0                       | 8.0     | 3.0                     | 4.9   | NE                      | NE    | 9.8           | -     | 0.8                  | 1.8   | 29.0                  | 30.0  |
| 21      | 26.0                 | 28.0  | 29.0                 | 31.0  | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | 4.0                       | 4.0     | 2.2                     | 4.0   | NE                      | NE    | -             | -     | 3.0                  | 3.0   | 28.0                  | 30.0  |
| 22      | 27.0                 | 28.0  | 32.0                 | 32.0  | 28.0                | 30.0  | 27.0              | 27.0  | 92.0                  | 78.0   | -                         | 2.0     | 1.2                     | 4.1   | NE                      | NE    | -             | 5.8   | 2.0                  | 4.0   | 29.0                  | 31.0  |
| 23      | 26.0                 | 26.0  | 30.0                 | 29.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | -       | 2.5                     | 1.8   | NE                      | NE    | 3.8           | 0.2   | 0.8                  | 1.8   | 28.0                  | 31.0  |
| 24      | 25.0                 | 25.0  | 28.0                 | 29.0  | 25.0                | 28.0  | 24.0              | 26.0  | 92.0                  | 85.0   | 10.0                      | 4.0     | 3.2                     | 3.1   | NE                      | NE    | 2.0           | -     | 1.0                  | 2.8   | 29.0                  | 31.0  |
| 25      | 26.0                 | 27.0  | 29.0                 | 30.0  | 25.0                | 29.0  | 24.0              | 26.0  | 92.0                  | 78.0   | 4.0                       | 2.0     | 3.7                     | 4.3   | NE                      | NE    | -             | 1.8   | 2.0                  | 4.0   | 29.0                  | 31.0  |
| 26      | 26.0                 | 26.0  | 29.0                 | 30.0  | 26.0                | 26.0  | 24.0              | 24.0  | 84.0                  | 84.0   | 10.0                      | 6.0     | 3.8                     | 4.6   | NE                      | NE    | 6.8           | 4.8   | 1.8                  | 0.8   | 28.0                  | 30.0  |
| 27      | 24.0                 | 24.0  | 26.0                 | 26.0  | 25.0                | 28.0  | 24.0              | 24.0  | 91.0                  | 70.0   | 2.0                       | 4.0     | 3.0                     | 3.9   | NE                      | NE    | 12.4          | -     | 1.4                  | 0.8   | 25.0                  | 30.0  |
| 28      | 26.0                 | 27.0  | 29.0                 | 32.0  | 28.0                | 30.0  | 25.0              | 25.0  | 77.0                  | 65.0   | 2.0                       | 4.0     | 1.1                     | 3.3   | NE                      | NE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 30.0  |
| 29      | 27.0                 | 29.0  | 31.0                 | 33.0  | 29.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 72.5   | 6.0                       | 4.0     | 1.0                     | 4.1   | NE                      | NE    | -             | -     | 3.0                  | 4.0   | 30.0                  | 30.0  |
| 30      | 27.0                 | 29.0  | 33.0                 | 34.0  | 29.0                | 31.0  | 26.0              | 27.0  | 78.0                  | 72.5   | 2.0                       | -       | 1.1                     | 2.0   | NE                      | NE    | -             | -     | 3.0                  | 4.0   | 30.0                  | 33.0  |
| 31      | 26.0                 |       | 31.0                 |       | 27.0                |       | 25.0              |       | 84.0                  |        | 2.0                       |         | 0.6                     |       | NE                      |       | -             |       | 3.0                  |       | 28.5                  |       |
| Total   | 801.0                | 833.0 | 953.0                | 987.0 | 851.0               | 906.0 | 786.0             | 805.0 | 2606.5                | 2395.5 | 113.0                     | 116.0 * | 64.7                    | 117.3 |                         |       | 159.6         | 97.6  | 54.6                 | 73.8  | 820.5                 | 922.5 |
| Average | 25.8                 | 26.9  | 30.7                 | 31.8  | 27.5                | 29.2  | 25.4              | 26.0  | 84.1                  | 77.3   | 3.6                       | 3.9 *   | 2.1                     | 3.8   |                         |       |               |       |                      |       | 26.5                  | 29.8  |
|         | 26.4                 |       | 31.3                 |       | 28.3                |       | 25.7              |       | 80.7                  |        | 3.8 *                     |         | 2.9                     |       |                         |       | 257.2 *       |       | 128.4                |       | 28.1                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

Aug-17

- 010 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 38.0   |                     | 29.0  |                   | 26.0  |                       | 78.0   |                           | 8.0   |                         | 3.5   |                         | SE    |               | ..    |                      | 4.0   |                       | 32.0  |
| 1       | 27.0                 | 27.0  | 29.0                 | 29.0   | 29.0                | 33.0  | 26.0              | 27.0  | 78.0                  | 61.5   | 4.0                       | 4.0   | 0.6                     | 4.3   | NE                      | NE    | -             | -     | 3.0                  | 3.0   | 26.0                  | 32.0  |
| 2       | 27.0                 | 29.0  | 32.0                 | 34.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.5   | -                         | 2.0   | 1.5                     | 4.4   | SE                      | SE    | -             | -     | 2.5                  | 3.0   | 27.0                  | 30.0  |
| 3       | 28.0                 | 28.0  | 34.0                 | 34.0   | 31.0                | 31.0  | 27.0              | 27.0  | 72.5                  | 72.5   | 4.0                       | 2.0   | 0.5                     | 4.2   | NE                      | SE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 30.0  |
| 4       | 27.0                 | 28.0  | 34.0                 | 34.0   | 28.0                | 29.0  | 27.0              | 26.0  | 92.0                  | 78.0   | 8.0                       | 4.0   | 0.5                     | 2.5   | NE                      | SE    | 4.0           | -     | 1.0                  | 3.0   | 25.0                  | 28.0  |
| 5       | 26.0                 | 26.0  | 34.0                 | 31.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | 6.0   | 1.0                     | 2.9   | SE                      | SE    | 3.0           | -     | 1.0                  | 3.0   | 25.0                  | 29.0  |
| 6       | 27.0                 | 28.0  | 29.0                 | 32.0   | 27.0                | 31.0  | 26.0              | 28.0  | 92.0                  | 78.5   | -                         | 2.0   | 0.6                     | 1.5   | SE                      | SE    | 0.4           | 16.2  | 2.4                  | 4.0   | 26.0                  | 31.0  |
| 7       | 26.0                 | 26.0  | 31.0                 | 34.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | 6.0   | 1.2                     | 1.9   | NE                      | NE    | 0.8           | -     | 2.8                  | 2.2   | 25.0                  | 29.0  |
| 8       | 27.0                 | 28.0  | 29.0                 | 33.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | 4.0   | 0.1                     | 1.4   | NE                      | NE    | 2.2           | 1.0   | 0.2                  | 2.0   | 25.0                  | 30.0  |
| 9       | 26.0                 | 26.0  | 29.0                 | 32.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 6.0                       | 2.0   | 0.4                     | 2.6   | NE                      | NE    | 2.6           | 0.4   | 1.6                  | 3.0   | 26.0                  | 30.0  |
| 10      | 26.0                 | 26.0  | 31.0                 | 29.0   | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 6.0                       | 4.0   | 2.9                     | 4.8   | NE                      | SE    | -             | -     | 2.0                  | 3.4   | 25.0                  | 26.0  |
| 11      | 25.0                 | 29.0  | 29.0                 | 33.0   | 29.0                | 28.0  | 26.0              | 26.0  | 78.0                  | 85.0   | 6.0                       | 4.0   | 1.8                     | 4.5   | NE                      | SE    | 3.0           | -     | 1.0                  | 2.0   | 27.0                  | 32.0  |
| 12      | 27.0                 | 28.0  | 29.0                 | 33.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | 2.0                       | 4.0   | 2.5                     | 4.9   | NE                      | SW    | 1.4           | 1.6   | 0.6                  | 2.0   | 28.0                  | 32.0  |
| 13      | 27.0                 | 28.0  | 30.0                 | 32.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 6.0                       | 10.0  | 2.1                     | 3.5   | NE                      | NE    | -             | 6.4   | 2.0                  | 0.4   | 27.0                  | 31.0  |
| 14      | 26.0                 | 26.0  | 32.0                 | 33.0   | 27.0                | 26.0  | 25.0              | 25.0  | 84.0                  | 92.0   | 8.0                       | 4.0   | 1.6                     | 3.6   | NE                      | SE    | -             | -     | 3.0                  | 1.4   | 29.0                  | 30.0  |
| 15      | 26.0                 | 28.0  | 34.0                 | 34.0   | 28.0                | 32.0  | 26.0              | 27.0  | 85.0                  | 67.0   | 4.0                       | 6.0   | 0.2                     | 2.1   | SE                      | SW    | 1.4           | -     | 0.4                  | 3.0   | 30.0                  | 33.0  |
| 16      | 25.0                 | 25.0  | 33.0                 | 33.0   | 28.0                | 31.0  | 27.0              | 27.0  | 92.0                  | 72.5   | 4.0                       | 4.0   | 0.9                     | 2.1   | SE                      | NE    | 13.8          | 7.4   | 0.8                  | 1.0   | 28.0                  | 30.0  |
| 17      | 25.0                 | 25.0  | 33.0                 | 33.0   | 27.0                | 27.0  | 26.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 1.2                     | 1.1   | NE                      | SE    | 5.0           | -     | 1.0                  | 1.4   | 29.0                  | 26.0  |
| 18      | 26.0                 | 27.0  | 27.0                 | 32.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | 6.0                       | -     | 0.8                     | 1.1   | SE                      | SE    | 0.6           | -     | 2.0                  | 4.0   | 28.0                  | 32.0  |
| 19      | 25.0                 | 29.0  | 31.0                 | 32.0   | 29.0                | 30.0  | 26.0              | 26.0  | 78.0                  | 72.0   | -                         | 8.0   | 1.0                     | 2.0   | SW                      | SW    | 2.4           | -     | 0.4                  | 2.0   | 29.0                  | 31.0  |
| 20      | 26.0                 | 27.0  | 31.0                 | 33.0   | 27.0                | 31.0  | 25.0              | 27.0  | 84.0                  | 72.5   | 8.0                       | 6.0   | 1.3                     | 1.7   | SW                      | SW    | 1.2           | -     | 0.2                  | 2.0   | 29.0                  | 32.0  |
| 21      | 26.0                 | 27.0  | 32.0                 | 34.0   | 28.0                | 29.0  | 25.0              | 26.0  | 77.0                  | 78.0   | -                         | 4.0   | 0.7                     | 1.1   | SW                      | NW    | -             | -     | 3.0                  | 4.0   | 30.0                  | 32.0  |
| 22      | 28.0                 | 30.0  | 32.0                 | 35.0   | 29.0                | 32.0  | 26.0              | 27.0  | 92.0                  | 72.5   | 2.0                       | 2.0   | 0.2                     | 2.9   | SE                      | SE    | 0.4           | -     | 1.0                  | 3.0   | 30.0                  | 33.0  |
| 23      | 28.0                 | 30.0  | 32.0                 | 35.0   | 29.0                | 32.0  | 26.0              | 27.0  | 78.0                  | 67.0   | -                         | -     | 0.2                     | 2.7   | NE                      | NE    | -             | -     | 4.0                  | 5.0   | 31.0                  | 34.0  |
| 24      | 26.0                 | 27.0  | 33.0                 | 34.0   | 28.0                | 29.0  | 25.0              | 25.0  | 77.0                  | 71.0   | -                         | 2.0   | 0.5                     | 2.0   | SE                      | NE    | 15.4          | 0.4   | 0.4                  | 3.0   | 30.0                  | 33.0  |
| 25      | 26.0                 | 28.0  | 29.0                 | 34.0   | 27.0                | 32.0  | 26.0              | 28.0  | 92.0                  | 73.0   | -                         | -     | 0.2                     | 1.2   | SE                      | SE    | 6.6           | 8.6   | 2.6                  | 1.4   | 29.0                  | 32.0  |
| 26      | 27.0                 | 27.0  | 33.0                 | 34.0   | 31.0                | 27.0  | 28.0              | 26.0  | 78.5                  | 92.0   | -                         | -     | 0.4                     | 1.3   | SE                      | NE    | 1.0           | 24.4  | 2.0                  | 0.6   | 30.0                  | 27.0  |
| 27      | 28.0                 | 26.0  | 33.0                 | 32.0   | 31.0                | 30.0  | 27.0              | 28.0  | 72.5                  | 85.0   | -                         | -     | 0.1                     | 1.0   | NE                      | NW    | -             | 16.8  | 2.0                  | 0.4   | 29.0                  | 26.0  |
| 28      | 26.0                 | 26.0  | 32.0                 | 31.0   | 29.0                | 26.0  | 26.0              | 25.0  | 78.0                  | 92.0   | 4.0                       | -     | 0.5                     | 2.4   | SW                      | NW    | -             | 2.4   | 2.0                  | 2.8   | 28.0                  | 25.0  |
| 29      | 25.0                 | 26.0  | 26.0                 | 33.0   | 26.0                | 28.0  | 24.0              | 27.0  | 84.0                  | 92.0   | 6.0                       | -     | 0.8                     | 2.5   | NW                      | NW    | 0.4           | -     | 2.4                  | 0.4   | 25.0                  | 31.0  |
| 30      | 26.0                 | 28.0  | 30.0                 | 33.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 72.5   | 4.0                       | -     | 0.8                     | 0.8   | NW                      | NW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 31.5  |
| 31      | 26.0                 |       | 32.0                 |        | 29.0                |       | 27.0              |       | 85.0                  |        | -                         |       | 0.0                     |       | NW                      |       | 0.8           |       | 1.2                  |       | 29.5                  |       |
| Total   | 817.0                | 846.0 | 965.0                | 1023.0 | 865.0               | 917.0 | 800.0             | 822.0 | 2623.5                | 2432.0 | 90.0                      | 100.0 | 26.8                    | 78.4  |                         |       | 66.4          | 85.6  | 52.5                 | 76.4  | 861.5                 | 940.5 |
| Average | 26.4                 | 27.3  | 31.1                 | 33.0   | 27.9                | 29.6  | 25.8              | 26.5  | 84.6                  | 78.5   | 2.9                       | 3.2   | 0.9                     | 2.5   |                         |       |               |       |                      |       | 27.8                  | 30.3  |
|         | 26.8                 |       | 32.1                 |        | 28.7                |       | 26.2              |       | 81.5                  |        | 3.1                       |       | 1.7                     |       |                         |       | 152.0 *       |       | 128.9                |       | 29.1                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 32.0  |                     | 29.0  |                   | 27.0  |                       | 85.0   |                           | 4.0   |                         | 3.3   |                         | NE    |               | ..    |                      | 4.0   |                       | 30.0  |
| 1       | 26.0                 | 26.0  | 30.0                 | 34.0  | 30.0                | 26.0  | 27.0              | 25.0  | 78.0                  | 92.0   | -                         | 4.0   | 0.6                     | 2.2   | NE                      | SW    | -             | -     | 2.0                  | 0.8   | 29.0                  | 30.0  |
| 2       | 25.0                 | 26.0  | 30.0                 | 32.0  | 30.0                | 28.0  | 27.0              | 26.0  | 78.0                  | 85.0   | 4.0                       | -     | 0.4                     | 1.6   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 28.0                  | 30.0  |
| 3       | 26.0                 | 27.0  | 29.0                 | 34.0  | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | -     | 0.2                     | 2.8   | SE                      | SE    | -             | -     | 2.0                  | 4.0   | 26.0                  | 32.0  |
| 4       | 26.0                 | 28.0  | 31.0                 | 33.0  | 31.0                | 31.0  | 27.0              | 28.0  | 72.5                  | 78.5   | 4.0                       | 8.0   | 0.5                     | 0.4   | NE                      | SE    | -             | -     | 3.0                  | 4.0   | 27.0                  | 31.0  |
| 5       | 27.0                 | 30.0  | 33.0                 | 34.0  | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | 10.0                      | 4.0   | 0.4                     | 2.8   | SE                      | SE    | -             | -     | 2.0                  | 3.0   | 28.0                  | 32.0  |
| 6       | 28.0                 | 30.0  | 33.0                 | 34.0  | 28.0                | 32.0  | 26.0              | 27.0  | 85.0                  | 67.0   | 4.0                       | 12.0  | 1.1                     | 0.4   | SE                      | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 31.5  |
| 7       | 26.0                 | 30.0  | 33.0                 | 35.0  | 32.0                | 33.0  | 27.0              | 28.0  | 67.0                  | 67.5   | 6.0                       | -     | 0.2                     | 0.6   | S                       | S     | -             | -     | 3.0                  | 4.0   | 29.0                  | 32.5  |
| 8       | 28.0                 | 29.0  | 34.0                 | 35.0  | 29.0                | 33.0  | 27.0              | 29.0  | 85.0                  | 73.5   | -                         | 2.0   | 0.1                     | 1.7   | S                       | NE    | -             | -     | 2.0                  | 4.0   | 28.5                  | 33.0  |
| 9       | 24.0                 | 26.0  | 34.0                 | 35.0  | 27.0                | 31.0  | 26.0              | 26.0  | 92.0                  | 65.5   | 4.0                       | 6.0   | 0.6                     | 0.8   | SE                      | SE    | 41.6          | -     | 0.6                  | 2.0   | 25.0                  | 32.0  |
| 10      | 27.0                 | 27.0  | 33.0                 | 34.0  | 27.0                | 31.0  | 26.0              | 27.0  | 92.0                  | 72.5   | -                         | 2.0   | 0.7                     | 0.7   | N                       | NE    | 43.4          | 1.4   | 0.4                  | 2.0   | 29.0                  | 30.0  |
| 11      | 28.0                 | 25.0  | 32.0                 | 34.0  | 32.0                | 26.0  | 29.0              | 25.0  | 79.0                  | 92.0   | -                         | 2.0   | 0.1                     | 1.1   | NE                      | SE    | -             | -     | 2.0                  | 0.4   | 28.5                  | 26.0  |
| 12      | 27.0                 | 27.0  | 28.0                 | 34.0  | 27.0                | 31.0  | 26.0              | 27.0  | 92.0                  | 72.5   | -                         | 6.0   | 0.0                     | 1.4   | SE                      | NE    | 0.4           | -     | 1.4                  | 2.0   | 25.5                  | 32.0  |
| 13      | 27.0                 | 25.0  | 33.0                 | 32.0  | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 2.0                       | -     | 0.5                     | 1.5   | NE                      | SE    | 0.8           | -     | 1.8                  | 2.0   | 27.0                  | 30.0  |
| 14      | 25.0                 | 29.0  | 32.0                 | 33.0  | 27.0                | 31.0  | 26.0              | 27.0  | 92.0                  | 72.5   | -                         | 1.0   | 0.6                     | 2.7   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 31.0  |
| 15      | 25.0                 | 25.0  | 33.0                 | 33.0  | 27.0                | 32.0  | 25.0              | 27.0  | 89.0                  | 61.0   | 4.0                       | -     | 1.1                     | 1.2   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 26.0                  | 30.0  |
| 16      | 29.0                 | 29.0  | 32.0                 | 34.0  | 30.0                | 32.0  | 27.0              | 28.0  | 78.0                  | 73.0   | -                         | 4.0   | 0.1                     | 0.2   | NE                      | NE    | -             | 6.2   | 3.0                  | 2.0   | 27.5                  | 29.0  |
| 17      | 25.0                 | 25.0  | 32.0                 | 34.0  | 26.0                | 25.0  | 25.0              | 24.0  | 92.0                  | 92.0   | 4.0                       | 2.0   | 0.9                     | 2.4   | NE                      | NE    | -             | 1.0   | 2.0                  | 0.2   | 29.0                  | 28.0  |
| 18      | 24.0                 | 26.0  | 29.0                 | 32.0  | 29.0                | 26.0  | 27.0              | 24.0  | 85.0                  | 84.0   | 4.0                       | -     | 0.4                     | 2.0   | NE                      | SE    | -             | 3.8   | 2.0                  | 2.0   | 25.0                  | 29.0  |
| 19      | 25.0                 | 26.0  | 26.0                 | 27.0  | 26.0                | 27.0  | 25.0              | 27.0  | 92.0                  | 92.0   | 4.0                       | 2.0   | 0.6                     | 1.0   | E                       | SE    | 0.4           | 4.4   | 1.4                  | 0.8   | 25.5                  | 27.0  |
| 20      | 25.0                 | 25.0  | 26.0                 | 29.0  | 25.0                | 25.0  | 24.0              | 24.0  | 92.0                  | 92.0   | -                         | 4.0   | 0.4                     | 1.0   | NE                      | NE    | 40.2          | 3.4   | 0.2                  | 1.4   | 25.5                  | 27.0  |
| 21      | 24.0                 | 25.0  | 26.0                 | 26.0  | 26.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 92.0   | 4.0                       | -     | 0.6                     | 0.9   | NE                      | NE    | 13.6          | 10.6  | 1.6                  | 1.4   | 25.5                  | 25.0  |
| 22      | 26.0                 | 27.0  | 27.0                 | 28.0  | 27.0                | 27.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 2.0                       | -     | 0.2                     | 1.4   | NE                      | NW    | -             | -     | 2.0                  | 2.6   | 26.0                  | 27.5  |
| 23      | 25.0                 | 26.0  | 28.0                 | 33.0  | 27.0                | 30.0  | 25.0              | 26.0  | 85.0                  | 72.5   | 4.0                       | -     | 0.1                     | 1.5   | NW                      | SE    | -             | -     | 1.0                  | 4.0   | 26.5                  | 31.5  |
| 24      | 25.0                 | 28.0  | 31.0                 | 34.0  | 29.0                | 31.0  | 27.0              | 27.0  | 72.0                  | 67.5   | -                         | 6.0   | 0.0                     | 1.9   | NE                      | SE    | -             | -     | 1.0                  | 3.0   | 28.0                  | 32.0  |
| 25      | 25.0                 | 30.0  | 33.0                 | 34.0  | 30.0                | 33.0  | 26.0              | 28.0  | 78.0                  | 67.0   | 4.0                       | -     | 0.1                     | 2.1   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 29.0                  | 32.0  |
| 26      | 25.0                 | 29.0  | 33.0                 | 34.0  | 29.0                | 32.0  | 26.0              | 27.0  | 85.0                  | 67.0   | -                         | -     | 0.2                     | 1.9   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 30.0                  | 31.0  |
| 27      | 26.0                 | 29.0  | 34.0                 | 34.0  | 30.0                | 32.0  | 28.0              | 27.0  | 85.0                  | 64.0   | -                         | 4.0   | 0.1                     | 1.7   | SE                      | S     | -             | -     | 2.0                  | 2.0   | 30.0                  | 32.0  |
| 28      | 25.0                 | 26.0  | 34.0                 | 34.0  | 28.0                | 29.0  | 26.0              | 24.0  | 72.0                  | 92.0   | 4.0                       | 8.0   | 0.3                     | 1.4   | SW                      | SW    | -             | 6.4   | 2.0                  | 2.0   | 29.0                  | 32.0  |
| 29      | 25.0                 | 25.0  | 32.0                 | 35.0  | 30.0                | 25.0  | 26.0              | 24.0  | 72.0                  | 92.0   | -                         | 4.0   | 0.9                     | 1.5   | NW                      | SE    | -             | -     | 2.0                  | 0.4   | 30.0                  | 29.0  |
| 30      | 25.0                 |       | 34.0                 |       | 30.0                |       | 26.0              |       | 72.0                  |        | -                         |       | 0.3                     |       | SE                      |       | 1.4           |       | 2.0                  |       | 29.0                  |       |
| Total   | 774.0                | 813.0 | 935.0                | 986.0 | 853.0               | 886.0 | 785.0             | 792.0 | 2483.5                | 2333.5 | 70.0                      | 85.0  | 12.2                    | 46.3  |                         |       | 141.8         | 37.2  | 53.4                 | 66.0  | 828.0                 | 905.0 |
| Average | 25.8                 | 27.1  | 31.2                 | 32.9  | 28.4                | 29.5  | 26.2              | 26.4  | 82.8                  | 77.8   | 2.3                       | 2.8   | 0.4                     | 1.5   |                         |       |               |       |                      |       | 27.6                  | 30.2  |
|         | 26.5                 |       | 32.0                 |       | 29.0                |       | 26.3              |       | 80.3                  |        | 2.6                       |       | 1.0                     |       |                         |       | 179.0 *       |       | 119.4                |       | 28.9                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

Oct-17

- 010 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 25.0  |                      | 34.0   |                     | 27.0  |                   | 26.0  |                       | 92.0   |                           | -     |                         | 0.8   |                         | SE    |               | ..    |                      | 2.0   |                       | 29.0  |
| 1       | 22.0                 | 27.0  | 23.0                 | 33.0   | 27.0                | 31.0  | 25.0              | 27.0  | 84.0                  | 72.5   | -                         | -     | 0.0                     | 0.6   | SW                      | SW    | 12.6          | -     | 1.6                  | 2.0   | 28.0                  | 29.0  |
| 2       | 24.0                 | 26.0  | 32.0                 | 33.0   | 26.0                | 27.0  | 24.0              | 25.0  | 84.0                  | 84.0   | -                         | -     | 0.2                     | 0.2   | SW                      | SW    | 9.0           | -     | 1.0                  | 2.0   | 28.0                  | 29.0  |
| 3       | 24.0                 | 29.0  | 28.0                 | 32.0   | 28.0                | 30.0  | 25.0              | 27.0  | 77.0                  | 78.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 27.0                  | 28.0  |
| 4       | 25.0                 | 27.0  | 32.0                 | 34.0   | 32.0                | 27.0  | 27.0              | 25.0  | 67.0                  | 84.0   | -                         | -     | 0.0                     | 0.1   | SW                      | S     | -             | 5.8   | 2.0                  | 2.0   | 27.0                  | 26.0  |
| 5       | 25.0                 | 28.0  | 33.0                 | 33.0   | 28.0                | 31.0  | 26.0              | 27.0  | 85.0                  | 72.5   | -                         | 4.0   | 0.1                     | 0.7   | S                       | SW    | -             | 2.0   | 3.0                  | 1.8   | 27.0                  | 29.0  |
| 6       | 24.0                 | 27.0  | 32.0                 | 34.0   | 30.0                | 27.0  | 26.0              | 25.0  | 72.0                  | 84.0   | 2.0                       | 4.0   | 0.1                     | 1.0   | SW                      | S     | -             | -     | 1.0                  | 1.0   | 25.0                  | 26.0  |
| 7       | 25.0                 | 27.0  | 32.0                 | 33.0   | 27.0                | 30.0  | 25.0              | 26.0  | 84.0                  | 72.0   | 4.0                       | 2.0   | 0.2                     | 1.2   | S                       | SW    | -             | 60.6  | 1.0                  | 2.0   | 27.0                  | 29.5  |
| 8       | 25.0                 | 25.0  | 31.0                 | 29.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.2   | SW                      | W     | -             | -     | 1.0                  | 1.6   | 27.0                  | 26.0  |
| 9       | 24.0                 | 25.0  | 30.0                 | 32.0   | 25.0                | 31.0  | 24.0              | 27.0  | 92.0                  | 72.5   | 2.0                       | -     | 0.0                     | 0.3   | W                       | W     | -             | -     | 1.0                  | 2.0   | 25.0                  | 29.0  |
| 10      | 25.0                 | 25.0  | 31.0                 | 34.0   | 27.0                | 31.0  | 25.0              | 27.0  | 84.0                  | 72.5   | -                         | -     | 0.1                     | 0.6   | W                       | W     | -             | -     | 1.0                  | 3.0   | 25.0                  | 31.0  |
| 11      | 24.0                 | 30.0  | 32.0                 | 34.0   | 30.0                | 32.0  | 26.0              | 26.0  | 72.0                  | 61.0   | 2.0                       | 4.0   | 0.1                     | 0.1   | W                       | SW    | -             | -     | 1.0                  | 2.0   | 26.0                  | 31.0  |
| 12      | 25.0                 | 25.0  | 34.0                 | 32.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -                         | -     | 0.1                     | 0.5   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 25.5                  | 29.0  |
| 13      | 25.0                 | 26.0  | 32.0                 | 34.0   | 26.0                | 33.0  | 25.0              | 28.0  | 92.0                  | 67.5   | 2.0                       | -     | 0.0                     | 1.2   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 25.5                  | 30.0  |
| 14      | 25.0                 | 26.0  | 34.0                 | 34.0   | 26.0                | 32.0  | 25.0              | 26.0  | 92.0                  | 73.0   | 2.0                       | -     | 0.0                     | 0.8   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 30.0  |
| 15      | 25.0                 | 26.0  | 34.0                 | 36.0   | 26.0                | 32.0  | 25.0              | 28.0  | 92.0                  | 73.0   | -                         | 2.0   | 0.0                     | 0.4   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 26.0                  | 31.0  |
| 16      | 24.0                 | 29.0  | 33.0                 | 36.0   | 25.0                | 32.0  | 24.0              | 26.0  | 92.0                  | 61.0   | 2.0                       | 2.0   | -                       | 1.6   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 27.0                  | 31.0  |
| 17      | 21.0                 | 23.0  | 34.0                 | 35.0   | 23.0                | 29.0  | 22.0              | 24.0  | 91.0                  | 64.0   | -                         | -     | 0.0                     | 1.1   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 22.0                  | 29.0  |
| 18      | 20.0                 | 23.0  | 31.0                 | 33.0   | 24.0                | 30.0  | 21.0              | 26.0  | 75.0                  | 72.0   | -                         | -     | -                       | 0.7   | SE                      | SW    | -             | 2.4   | 1.0                  | 2.0   | 21.0                  | 28.0  |
| 19      | 22.0                 | 27.0  | 33.0                 | 34.0   | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | 4.0                       | -     | 0.0                     | 1.4   | SW                      | SW    | -             | -     | 1.0                  | 1.4   | 24.0                  | 29.0  |
| 20      | 25.0                 | 30.0  | 31.0                 | 33.0   | 30.0                | 30.0  | 26.0              | 25.0  | 72.0                  | 65.0   | 4.0                       | 4.0   | 0.7                     | 2.2   | SE                      | SE    | -             | -     | 1.0                  | 2.0   | 26.0                  | 30.0  |
| 21      | 24.0                 | 25.0  | 31.0                 | 34.0   | 26.0                | 31.0  | 24.0              | 27.0  | 84.0                  | 72.5   | 4.0                       | -     | 0.3                     | 3.5   | SE                      | SE    | -             | -     | 1.0                  | 2.0   | 25.0                  | 29.0  |
| 22      | 24.0                 | 26.0  | 32.0                 | 34.0   | 27.0                | 27.0  | 25.0              | 27.0  | 84.0                  | 70.0   | 2.0                       | -     | 0.1                     | 1.1   | S                       | SW    | -             | -     | 1.0                  | 1.0   | 26.0                  | 28.0  |
| 23      | 22.0                 | 28.0  | 29.0                 | 35.0   | 28.0                | 34.0  | 25.0              | 27.0  | 77.0                  | 56.0   | -                         | -     | 0.1                     | 0.7   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 24.0                  | 28.0  |
| 24      | 24.0                 | 25.0  | 35.0                 | 36.0   | 26.0                | 32.0  | 25.0              | 27.0  | 92.0                  | 67.0   | -                         | -     | 0.0                     | 0.5   | W                       | NW    | -             | -     | 1.0                  | 2.0   | 25.0                  | 30.0  |
| 25      | 21.0                 | 23.0  | 34.0                 | 35.0   | 23.0                | 31.0  | 21.0              | 25.0  | 83.0                  | 59.5   | -                         | -     | 0.1                     | 0.6   | NW                      | S     | -             | -     | 1.0                  | 1.0   | 24.0                  | 30.0  |
| 26      | 21.0                 | 22.0  | 33.0                 | 34.0   | 21.0                | 27.0  | 20.0              | 26.0  | 91.0                  | 92.0   | 2.0                       | -     | 0.0                     | 0.3   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 24.0                  | 30.0  |
| 27      | 20.0                 | 23.0  | 33.0                 | 33.0   | 23.0                | 31.0  | 21.0              | 25.0  | 83.0                  | 59.5   | -                         | 4.0   | 0.1                     | 0.2   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 23.5                  | 29.0  |
| 28      | 22.0                 | 23.0  | 32.0                 | 33.0   | 23.0                | 28.0  | 22.0              | 23.0  | 91.0                  | 64.0   | -                         | 2.0   | 6.7                     | 0.3   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 24.0                  | 30.0  |
| 29      | 20.0                 | 22.0  | 30.0                 | 34.0   | 23.0                | 28.0  | 21.0              | 23.0  | 83.0                  | 64.0   | 2.0                       | -     | 0.0                     | 0.4   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 22.5                  | 29.0  |
| 30      | 19.0                 | 21.0  | 29.0                 | 33.0   | 21.0                | 30.0  | 20.0              | 24.0  | 91.0                  | 59.0   | -                         | 2.0   | 6.7                     | 0.5   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 21.0                  | 29.0  |
| 31      | 20.0                 |       | 31.0                 |        | 20.0                |       | 19.0              |       | 91.0                  |        | -                         |       | -                       |       | SE                      |       | -             |       | 1.0                  |       | 23.0                  |       |
| Total   | 716.0                | 794.0 | 981.0                | 1043.0 | 801.0               | 929.0 | 739.0             | 806.0 | 2617.0                | 2232.0 | 34.0                      | 30.0  | 15.7                    | 23.9  |                         |       | 21.6          | 70.8  | 36.6                 | 53.8  | 778.0                 | 901.5 |
| Average | 23.1                 | 25.6  | 31.6                 | 33.6   | 25.8                | 30.0  | 23.8              | 26.0  | 84.4                  | 72.0   | 1.1                       | 1.0   | 0.5                     | 0.8   |                         |       |               |       |                      |       | 25.1                  | 29.1  |
|         | 24.4                 |       | 32.6                 |        | 27.9                |       | 24.9              |       | 78.2                  |        | 1.0                       |       | 0.6                     |       |                         |       | 92.4 *        |       | 90.4                 |       | 27.1                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

Nov-17

.. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 21.0  |                      | 32.0  |                     | 28.0  |                   | 23.0  |                       | 64.0   |                           | -     |                         | 0.4   |                         | SE    |               | ..    |                      | 2.0   |                       | 29.0  |
| 1       | 19.0                 | 21.0  | 29.0                 | 30.0  | 22.0                | 28.0  | 20.0              | 21.0  | 82.0                  | 51.0   | 2.0                       | -     | 0.0                     | 0.5   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 22.0                  | 28.0  |
| 2       | 20.0                 | 21.0  | 30.0                 | 31.0  | 22.0                | 29.0  | 20.0              | 21.0  | 82.0                  | 46.0   | -                         | -     | 0.0                     | 34.0  | SW                      | S     | -             | -     | 1.5                  | 2.0   | 22.0                  | 28.5  |
| 3       | 16.0                 | 19.0  | 30.0                 | 31.0  | 20.0                | 27.0  | 18.0              | 21.0  | 81.0                  | 56.0   | 2.0                       | 2.0   | 0.1                     | 1.1   | S                       | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 26.5  |
| 4       | 17.0                 | 20.0  | 29.0                 | 31.0  | 21.0                | 27.0  | 19.0              | 22.0  | 82.0                  | 63.0   | 2.0                       | 2.0   | 6.7                     | 1.4   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 19.0                  | 26.0  |
| 5       | 17.0                 | 18.0  | 28.0                 | 32.0  | 20.0                | 29.0  | 18.0              | 23.0  | 81.0                  | 58.0   | -                         | -     | 0.0                     | 0.9   | SW                      | W     | -             | -     | 1.0                  | 1.5   | 18.5                  | 27.0  |
| 6       | 19.0                 | 20.0  | 31.0                 | 32.0  | 20.0                | 27.0  | 19.0              | 23.0  | 91.0                  | 70.0   | 2.0                       | 2.0   | 6.7                     | 1.0   | W                       | S     | -             | -     | 1.0                  | 2.0   | 20.5                  | 26.5  |
| 7       | 18.0                 | 19.0  | 29.0                 | 33.0  | 20.0                | 29.0  | 19.0              | 22.0  | 91.0                  | 52.0   | 2.0                       | 4.0   | 6.7                     | 0.5   | S                       | SW    | -             | -     | 1.0                  | 1.0   | 20.0                  | 27.0  |
| 8       | 18.0                 | 20.0  | 31.0                 | 32.0  | 20.0                | 30.0  | 19.0              | 22.0  | 91.0                  | 47.0   | -                         | 2.0   | -                       | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 19.5                  | 27.0  |
| 9       | 17.0                 | 21.0  | 30.0                 | 31.0  | 20.0                | 21.0  | 18.0              | 19.0  | 81.0                  | 82.0   | -                         | -     | 6.7                     | 0.8   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 19.0                  | 25.5  |
| 10      | 16.0                 | 18.0  | 26.0                 | 30.0  | 18.0                | 28.0  | 16.0              | 21.0  | 80.0                  | 51.0   | -                         | -     | 6.7                     | 0.9   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 18.0                  | 26.0  |
| 11      | 16.0                 | 17.0  | 29.0                 | 31.0  | 17.0                | 24.0  | 16.0              | 20.0  | 90.0                  | 68.0   | -                         | -     | 0.1                     | 0.8   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 17.0                  | 24.0  |
| 12      | 14.0                 | 16.0  | 25.0                 | 31.0  | 16.0                | 28.0  | 15.0              | 21.0  | 89.0                  | 51.0   | -                         | -     | 6.7                     | 0.4   | SW                      | NE    | -             | -     | 1.0                  | 1.5   | 16.5                  | 25.0  |
| 13      | 16.0                 | 22.0  | 29.0                 | 32.0  | 23.0                | 26.0  | 20.0              | 20.0  | 75.0                  | 55.0   | -                         | -     | 6.7                     | 0.7   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 18.0                  | 27.0  |
| 14      | 17.0                 | 20.0  | 27.0                 | 31.0  | 19.0                | 27.0  | 18.0              | 22.0  | 90.0                  | 63.0   | -                         | -     | 0.0                     | 1.6   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 19.0                  | 26.0  |
| 15      | 20.0                 | 21.0  | 29.0                 | 29.0  | 22.0                | 23.0  | 19.0              | 21.0  | 74.0                  | 83.0   | -                         | 2.0   | 0.1                     | 2.2   | SW                      | S     | -             | -     | 1.0                  | 1.5   | 21.0                  | 23.0  |
| 16      | 20.0                 | 23.0  | 24.0                 | 30.0  | 24.0                | 26.0  | 21.0              | 23.0  | 75.0                  | 76.0   | 2.0                       | -     | 0.3                     | 2.2   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 21.0                  | 26.0  |
| 17      | 21.0                 | 22.0  | 26.0                 | 30.0  | 23.0                | 27.0  | 21.0              | 23.0  | 83.0                  | 70.0   | 2.0                       | 2.0   | 0.1                     | 1.6   | SW                      | W     | -             | -     | 1.0                  | 1.5   | 22.5                  | 24.5  |
| 18      | 20.0                 | 23.0  | 29.0                 | 31.0  | 24.0                | 29.0  | 22.0              | 23.0  | 83.0                  | 46.0   | 2.0                       | -     | 0.1                     | 1.7   | W                       | SW    | -             | -     | 1.0                  | 1.5   | 22.0                  | 28.0  |
| 19      | 21.0                 | 22.0  | 30.0                 | 29.0  | 23.0                | 30.0  | 22.0              | 24.0  | 91.0                  | 59.0   | -                         | -     | 0.1                     | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 22.5                  | 28.5  |
| 20      | 21.0                 | 21.0  | 26.0                 | 29.0  | 21.0                | 28.0  | 20.0              | 21.0  | 91.0                  | 57.0   | -                         | 2.0   | 0.1                     | 1.7   | W                       | S     | -             | -     | 1.0                  | 1.5   | 22.5                  | 28.0  |
| 21      | 22.0                 | 21.0  | 30.0                 | 32.0  | 21.0                | 29.0  | 17.0              | 20.0  | 65.0                  | 40.0   | 4.0                       | 2.0   | 0.4                     | 1.0   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 20.0                  | 26.5  |
| 22      | 17.0                 | 19.0  | 30.0                 | 31.0  | 19.0                | 26.0  | 16.0              | 18.0  | 72.0                  | 42.0   | -                         | -     | 0.2                     | 3.0   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 19.0                  | 24.0  |
| 23      | 17.0                 | 24.0  | 27.0                 | 30.0  | 23.0                | 24.0  | 18.0              | 18.0  | 59.0                  | 53.0   | -                         | 4.0   | 0.4                     | 3.2   | SE                      | S     | -             | -     | 1.0                  | 1.5   | 18.5                  | 24.0  |
| 24      | 14.0                 | 16.0  | 25.0                 | 29.0  | 17.0                | 27.0  | 14.0              | 17.0  | 70.0                  | 32.0   | 2.0                       | -     | 0.2                     | 3.2   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 16.5                  | 23.0  |
| 25      | 12.0                 | 16.0  | 27.0                 | 31.0  | 16.0                | 26.0  | 14.0              | 18.0  | 79.0                  | 42.0   | -                         | -     | 0.2                     | 0.6   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 24.0  |
| 26      | 12.0                 | 12.0  | 27.0                 | 31.0  | 18.0                | 29.0  | 11.0              | 25.0  | 36.0                  | 71.0   | -                         | -     | 0.0                     | 1.3   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 23.0  |
| 27      | 12.0                 | 15.0  | 30.0                 | 31.0  | 18.0                | 28.0  | 12.0              | 24.0  | 45.0                  | 70.0   | -                         | -     | -                       | -     | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 23.0  |
| 28      | 11.0                 | 12.0  | 31.0                 | 31.0  | 19.0                | 28.0  | 16.0              | 27.0  | 72.0                  | 92.0   | -                         | -     | 0.8                     | 1.3   | S                       | SE    | -             | -     | 1.0                  | 1.0   | 15.0                  | 23.0  |
| 29      | 12.0                 | 12.0  | 31.0                 | 31.0  | 17.0                | 22.0  | 15.0              | 17.0  | 80.0                  | 58.0   | -                         | -     | 0.0                     | 1.2   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 15.0                  | 20.0  |
| 30      | 12.0                 |       | 30.0                 |       | 14.0                |       | 13.0              |       | 89.0                  |        | -                         |       | 0.1                     |       | SE                      |       | -             |       | 1.0                  |       | 15.5                  |       |
| Total   | 504.0                | 572.0 | 855.0                | 925.0 | 597.0               | 810.0 | 526.0             | 640.0 | 2350.0                | 1768.0 | 22.0                      | 24.0  | 49.8                    | 70.5  |                         |       | -             | - *   | 30.5                 | 44.0  | 567.0                 | 767.5 |
| Average | 16.8                 | 19.1  | 28.5                 | 30.8  | 19.9                | 27.0  | 17.5              | 21.3  | 78.3                  | 58.9   | 0.7                       | 0.8   | 1.7                     | 2.3   |                         |       |               |       |                      |       | 18.9                  | 25.6  |
|         | 17.9                 |       | 29.7                 |       | 23.5                |       | 19.4              |       | 68.6                  |        | 0.8                       |       | 2.0                     |       |                         |       | 0.0 *         |       | 74.5                 |       | 22.2                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 13.0  |                      | 31.0  |                     | 26.0  |                   | 24.0  |                       | 84.0   |                           | -     |                         | 1.7   |                         | S     |               | ..    |                      | 1.5   |                       | 23.0  |
| 1       | 12.0                 | 15.0  | 26.0                 | 29.0  | 15.0                | 27.0  | 14.0              | 26.0  | 89.0                  | 92.0   | -                         | -     | 0.2                     | 1.9   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 16.0                  | 24.0  |
| 2       | 12.0                 | 12.0  | 28.0                 | 28.0  | 22.0                | 24.0  | 21.0              | 23.0  | 91.0                  | 91.0   | 4.0                       | -     | 0.1                     | 1.2   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 18.0                  | 22.0  |
| 3       | 11.0                 | 15.0  | 29.0                 | 30.0  | 16.0                | 24.0  | 15.0              | 23.0  | 89.0                  | 91.0   | -                         | -     | 0.1                     | 1.2   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 14.0                  | 22.0  |
| 4       | 11.0                 | 20.0  | 25.0                 | 29.0  | 21.0                | 23.0  | 19.0              | 22.0  | 82.0                  | 91.0   | -                         | -     | 0.1                     | 1.0   | SE                      | E     | -             | -     | 1.0                  | 1.5   | 15.0                  | 21.5  |
| 5       | 11.0                 | 12.0  | 24.0                 | 30.0  | 13.0                | 27.0  | 12.0              | 26.0  | 88.0                  | 92.0   | -                         | -     | 6.7                     | 0.7   | E                       | NW    | -             | -     | 1.0                  | 1.0   | 14.5                  | 22.5  |
| 6       | 12.0                 | 14.0  | 28.0                 | 30.0  | 15.0                | 24.0  | 14.0              | 23.0  | 89.0                  | 91.0   | -                         | -     | 0.0                     | 0.8   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 15.0                  | 23.0  |
| 7       | 13.0                 | 21.0  | 25.0                 | 31.0  | 18.0                | 28.0  | 16.0              | 27.0  | 80.0                  | 92.0   | -                         | -     | 0.1                     | 1.3   | NW                      | SW    | -             | -     | 1.0                  | 1.5   | 16.0                  | 23.5  |
| 8       | 15.0                 | 18.0  | 29.0                 | 32.0  | 19.0                | 27.0  | 17.0              | 26.0  | 81.0                  | 92.0   | 2.0                       | 2.0   | 0.1                     | 2.9   | S                       | SE    | -             | -     | 1.0                  | 1.5   | 17.0                  | 25.0  |
| 9       | 17.0                 | 18.0  | 28.0                 | 30.0  | 18.0                | 29.0  | 17.0              | 28.0  | 90.0                  | 92.0   | 2.0                       | 4.0   | 1.0                     | 3.1   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 18.0                  | 24.0  |
| 10      | 14.0                 | 20.0  | 31.0                 | 30.0  | 20.0                | 28.0  | 16.0              | 26.0  | 64.0                  | 85.0   | 2.0                       | -     | 0.8                     | 1.5   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 23.0  |
| 11      | 13.0                 | 20.0  | 30.0                 | 30.0  | 21.0                | 29.0  | 18.0              | 26.0  | 73.0                  | 78.0   | -                         | -     | 0.1                     | 0.7   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 16.5                  | 23.5  |
| 12      | 12.0                 | 15.0  | 30.0                 | 31.0  | 15.0                | 31.0  | 14.0              | 23.0  | 89.0                  | 47.5   | -                         | -     | 0.0                     | 0.9   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 23.0  |
| 13      | 14.0                 | 16.0  | 32.0                 | 33.0  | 17.0                | 26.0  | 16.0              | 21.0  | 90.0                  | 62.0   | -                         | -     | 0.0                     | 0.6   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 16.5                  | 24.0  |
| 14      | 15.0                 | 24.0  | 27.0                 | 32.0  | 25.0                | 29.0  | 20.0              | 23.0  | 61.0                  | 58.0   | -                         | -     | 0.0                     | 0.6   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 18.0                  | 24.5  |
| 15      | 15.0                 | 16.0  | 30.0                 | 31.0  | 17.0                | 30.0  | 16.0              | 21.0  | 90.0                  | 42.0   | -                         | -     | 0.0                     | 1.2   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 17.5                  | 24.0  |
| 16      | 17.0                 | 18.0  | 31.0                 | 32.0  | 19.0                | 30.0  | 17.0              | 21.0  | 81.0                  | 42.0   | -                         | -     | 0.1                     | 0.3   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 18.0                  | 23.5  |
| 17      | 16.0                 | 17.0  | 30.0                 | 31.0  | 20.0                | 28.0  | 17.0              | 22.0  | 73.0                  | 57.0   | -                         | -     | 0.9                     | 0.1   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 18.5                  | 22.0  |
| 18      | 10.0                 | 12.0  | 29.0                 | 27.0  | 14.0                | 25.0  | 11.0              | 23.0  | 67.0                  | 84.0   | -                         | -     | 2.3                     | 4.7   | S                       | SE    | -             | -     | 1.0                  | 1.5   | 15.0                  | 21.0  |
| 19      | 9.0                  | 12.0  | 22.0                 | 29.0  | 12.0                | 27.0  | 10.0              | 23.0  | 76.0                  | 70.0   | -                         | -     | 0.2                     | 0.9   | SE                      | NE    | -             | -     | 1.0                  | 1.0   | 12.5                  | 20.0  |
| 20      | 9.0                  | 15.0  | 20.0                 | 30.0  | 15.0                | 23.0  | 12.0              | 18.0  | 68.0                  | 59.0   | -                         | -     | 0.0                     | 0.8   | NE                      | E     | -             | -     | 1.0                  | 1.5   | 13.0                  | 21.0  |
| 21      | 12.0                 | 23.0  | 25.0                 | 29.0  | 24.0                | 27.0  | 17.0              | 21.0  | 46.0                  | 56.0   | -                         | -     | 0.2                     | 0.6   | SE                      | NE    | -             | -     | 1.0                  | 1.0   | 15.0                  | 22.0  |
| 22      | 12.0                 | 13.0  | 29.0                 | 29.0  | 14.0                | 27.0  | 13.0              | 22.0  | 89.0                  | 63.0   | -                         | -     | 0.0                     | 1.6   | NE                      | SE    | -             | -     | 1.0                  | 1.5   | 15.5                  | 21.5  |
| 23      | 12.0                 | 15.0  | 28.0                 | 30.0  | 16.0                | 25.0  | 14.0              | 22.0  | 79.0                  | 76.0   | -                         | -     | 0.1                     | 0.8   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 15.0                  | 22.0  |
| 24      | 10.0                 | 12.0  | 26.0                 | 30.0  | 13.0                | 24.0  | 12.0              | 22.0  | 88.0                  | 83.0   | -                         | -     | 0.0                     | 0.9   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 13.5                  | 21.0  |
| 25      | 11.0                 | 13.0  | 25.0                 | 30.0  | 14.0                | 25.0  | 13.0              | 23.0  | 89.0                  | 84.0   | -                         | 2.0   | 0.0                     | 1.6   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 14.0                  | 21.5  |
| 26      | 9.0                  | 12.0  | 26.0                 | 29.0  | 13.0                | 24.0  | 11.0              | 22.0  | 77.0                  | 83.0   | -                         | -     | 0.6                     | 4.2   | SE                      | S     | -             | -     | 1.0                  | 1.5   | 13.5                  | 22.0  |
| 27      | 9.0                  | 13.0  | 25.0                 | 31.0  | 14.0                | 22.0  | 11.0              | 21.0  | 67.0                  | 91.0   | -                         | -     | 0.2                     | 1.1   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 12.0                  | 20.0  |
| 28      | 8.0                  | 9.0   | 23.0                 | 30.0  | 10.0                | 24.0  | 9.0               | 23.0  | 87.0                  | 91.0   | -                         | -     | 0.0                     | 1.0   | SE                      | S     | -             | -     | 1.0                  | 1.5   | 12.0                  | 21.0  |
| 29      | 8.0                  | 10.0  | 25.0                 | 30.0  | 11.0                | 25.0  | 10.0              | 18.0  | 87.0                  | 47.0   | -                         | -     | 0.0                     | 0.9   | S                       | S     | -             | -     | 1.0                  | 1.5   | 13.0                  | 21.0  |
| 30      | 10.0                 | 11.0  | 27.0                 | 30.0  | 12.0                | 24.0  | 11.0              | 18.0  | 87.0                  | 53.0   | -                         | -     | 6.7                     | 0.7   | S                       | SW    | -             | -     | 1.0                  | 1.5   | 13.5                  | 21.5  |
| 31      | 10.0                 |       | 26.0                 |       | 15.0                |       | 14.0              |       | 89.0                  |        | -                         |       | 0.0                     |       | SW                      |       | -             |       | 1.0                  |       | 14.0                  |       |
| Total   | 369.0                | 474.0 | 839.0                | 934.0 | 508.0               | 812.0 | 447.0             | 707.0 | 2496.0                | 2319.5 | 10.0                      | 8.0   | 20.6                    | 41.2  |                         |       | -             | - *   | 31.0                 | 41.5  | 472.0                 | 693.5 |
| Average | 11.9                 | 15.3  | 27.1                 | 30.1  | 16.4                | 26.2  | 14.4              | 22.8  | 80.5                  | 74.8   | 0.3                       | 0.3   | 0.7                     | 1.3   |                         |       |               |       |                      |       | 15.2                  | 22.4  |
|         | 13.6                 |       | 28.6                 |       | 21.3                |       | 18.6              |       | 77.7                  |        | 0.3                       |       | 1.0                     |       |                         |       | 0.0 *         |       | 72.5                 |       | 18.8                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

Jan-18

- 010 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 14.0  |                      | 31.0  |                     | 28.0  |                   | 26.0  |                       | 85.0   |                           | -     |                         | 1.0   |                         | SW    |               | -     |                      | 1.5   |                       | 21.0  |
| 1       | 11.0                 | 18.0  | 27.0                 | 29.0  | 18.0                | 26.0  | 15.0              | 17.0  | 71.0                  | 36.0   | -                         | -     | 0.0                     | 0.3   | NW                      | NW    | -             | -     | 1.5                  | 1.0   | 16.0                  | 21.5  |
| 2       | 12.0                 | 13.0  | 27.0                 | 28.0  | 14.0                | 24.0  | 12.0              | 18.0  | 78.0                  | 53.0   | -                         | -     | -                       | 0.0   | NW                      | NE    | -             | -     | 1.0                  | 1.5   | 15.0                  | 21.0  |
| 3       | 12.0                 | 14.0  | 24.0                 | 27.0  | 15.0                | 25.0  | 11.0              | 15.0  | 58.0                  | 28.0   | -                         | -     | 0.0                     | 0.3   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 14.0                  | 20.0  |
| 4       | 9.0                  | 10.0  | 25.0                 | 27.0  | 11.0                | 22.0  | 9.0               | 16.0  | 75.0                  | 50.0   | -                         | -     | 0.0                     | 0.0   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 12.0                  | 20.0  |
| 5       | 8.0                  | 11.0  | 24.0                 | 28.0  | 11.0                | 22.0  | 10.0              | 16.0  | 87.0                  | 50.0   | -                         | -     | 0.0                     | 0.3   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 11.5                  | 19.5  |
| 6       | 9.0                  | 18.0  | 24.0                 | 26.0  | 16.0                | 21.0  | 13.0              | 14.0  | 69.0                  | 42.0   | -                         | -     | 0.0                     | 0.4   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 12.0                  | 21.0  |
| 7       | 9.0                  | 11.0  | 22.0                 | 27.0  | 12.0                | 23.0  | 10.0              | 16.0  | 76.0                  | 45.0   | -                         | -     | -                       | 0.1   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 12.5                  | 19.5  |
| 8       | 8.0                  | 10.0  | 25.0                 | 27.0  | 11.0                | 22.0  | 9.0               | 15.0  | 75.0                  | 43.0   | -                         | -     | -                       | 0.4   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 12.0                  | 19.0  |
| 9       | 9.0                  | 13.0  | 23.0                 | 27.0  | 12.0                | 20.0  | 11.0              | 15.0  | 88.0                  | 56.0   | -                         | -     | 0.0                     | 0.3   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 11.5                  | 18.5  |
| 10      | 9.0                  | 12.0  | 24.0                 | 29.0  | 11.0                | 25.0  | 10.0              | 17.0  | 87.0                  | 41.0   | -                         | -     | -                       | 0.4   | NE                      | NW    | -             | -     | 1.0                  | 1.5   | 12.0                  | 19.5  |
| 11      | 8.0                  | 10.0  | 27.0                 | 30.0  | 10.0                | 27.0  | 9.0               | 17.0  | 87.0                  | 32.0   | -                         | -     | -                       | 0.5   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 12.0                  | 20.5  |
| 12      | 9.0                  | 11.0  | 27.0                 | 27.0  | 12.0                | 28.0  | 10.0              | 18.0  | 76.0                  | 33.0   | -                         | -     | -                       | 0.2   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 12.0                  | 21.0  |
| 13      | 11.0                 | 12.0  | 27.0                 | 29.0  | 14.0                | 26.0  | 12.0              | 25.0  | 78.0                  | 92.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 12.5                  | 20.0  |
| 14      | 12.0                 | 13.0  | 28.0                 | 30.0  | 14.0                | 26.0  | 12.0              | 25.0  | 78.0                  | 92.0   | -                         | -     | 0.0                     | 0.4   | NW                      | NE    | -             | -     | 1.0                  | 1.0   | 13.0                  | 21.0  |
| 15      | 11.0                 | 12.0  | 27.0                 | 29.0  | 11.0                | 26.0  | 10.0              | 18.0  | 87.0                  | 42.0   | -                         | -     | -                       | 0.3   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 14.0                  | 20.0  |
| 16      | 10.0                 | 10.0  | 28.0                 | 29.0  | 15.0                | 25.0  | 11.0              | 18.0  | 58.0                  | 47.0   | -                         | -     | 0.3                     | 0.4   | SE                      | SE    | -             | -     | 1.0                  | 1.0   | 13.0                  | 20.0  |
| 17      | 9.0                  | 14.0  | 26.0                 | 30.0  | 15.0                | 26.0  | 11.0              | 17.0  | 58.0                  | 36.0   | -                         | -     | 6.7                     | 0.2   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 12.0                  | 19.0  |
| 18      | 9.0                  | 15.0  | 27.0                 | 29.0  | 16.0                | 27.0  | 11.0              | 18.0  | 50.0                  | 38.0   | -                         | -     | 0.0                     | 0.9   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 12.5                  | 20.0  |
| 19      | 8.0                  | 14.0  | 26.0                 | 29.0  | 14.0                | 28.0  | 11.0              | 16.0  | 67.0                  | 23.0   | -                         | -     | 0.9                     | 0.5   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 12.0                  | 19.0  |
| 20      | 10.0                 | 16.0  | 26.0                 | 28.0  | 15.0                | 28.0  | 12.0              | 16.0  | 68.0                  | 23.0   | -                         | -     | 0.0                     | 0.6   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 12.0                  | 19.0  |
| 21      | 12.0                 | 16.0  | 28.0                 | 30.0  | 15.0                | 27.0  | 13.0              | 16.0  | 78.0                  | 26.0   | -                         | -     | 0.4                     | 0.2   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 13.0                  | 20.0  |
| 22      | 12.0                 | 18.0  | 28.0                 | 30.0  | 17.0                | 19.0  | 14.0              | 21.0  | 70.0                  | 81.0   | -                         | -     | 0.1                     | 0.2   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 13.0                  | 20.5  |
| 23      | 12.0                 | 16.0  | 29.0                 | 30.0  | 15.0                | 28.0  | 12.0              | 18.0  | 68.0                  | 33.0   | -                         | -     | 0.1                     | 0.1   | SW                      | SE    | -             | -     | 1.5                  | 1.5   | 13.0                  | 20.0  |
| 24      | 13.0                 | 15.0  | 29.0                 | 30.0  | 16.0                | 28.0  | 14.0              | 19.0  | 79.0                  | 39.0   | -                         | -     | 0.0                     | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 15.0                  | 23.0  |
| 25      | 12.0                 | 13.0  | 29.0                 | 29.0  | 15.0                | 25.0  | 11.0              | 24.0  | 58.0                  | 92.0   | -                         | -     | 0.0                     | 0.4   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 14.5                  | 22.5  |
| 26      | 12.0                 | 13.0  | 26.0                 | 29.0  | 13.0                | 25.0  | 11.0              | 24.0  | 77.0                  | 92.0   | -                         | -     | 0.0                     | 0.4   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 13.5                  | 22.0  |
| 27      | 8.0                  | 10.0  | 26.0                 | 29.0  | 11.0                | 25.0  | 10.0              | 18.0  | 87.0                  | 47.0   | -                         | -     | -                       | 0.3   | SW                      | SE    | -             | -     | 1.0                  | 1.0   | 13.0                  | 22.0  |
| 28      | 8.0                  | 11.0  | 27.0                 | 30.0  | 12.0                | 23.0  | 11.0              | 15.0  | 88.0                  | 38.0   | 2.0                       | -     | -                       | 0.2   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 12.0                  | 21.5  |
| 29      | 11.0                 | 12.0  | 25.0                 | 30.0  | 12.0                | 25.0  | 10.0              | 16.0  | 76.0                  | 45.0   | -                         | -     | -                       | 0.5   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 13.5                  | 22.5  |
| 30      | 11.0                 | 13.0  | 27.0                 | 32.0  | 16.0                | 24.0  | 12.0              | 17.0  | 59.0                  | 46.0   | -                         | -     | -                       | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 13.0                  | 23.0  |
| 31      | 9.0                  |       | 26.0                 |       | 14.0                |       | 11.0              |       | 67.0                  |        | -                         |       | 0.0                     |       | NE                      |       | -             |       | 1.0                  |       | 14.0                  |       |
| Total   | 313.0                | 408.0 | 814.0                | 895.0 | 423.0               | 774.0 | 348.0             | 561.0 | 2278.0                | 1526.0 | 2.0                       | -     | 8.7                     | 11.9  |                         |       | -             | -     | 32.0                 | 41.5  | 401.0                 | 637.0 |
| Average | 10.1                 | 13.2  | 26.3                 | 28.9  | 13.6                | 25.0  | 11.2              | 18.1  | 73.5                  | 49.2   | 0.1                       | -     | 0.3                     | 0.4   |                         |       |               |       |                      |       | 12.9                  | 20.5  |
|         | 11.6                 |       | 27.6                 |       | 19.3                |       | 14.7              |       | 61.4                  |        | 0.0                       |       | 0.3                     |       |                         |       | 0.0           |       | 73.5                 |       | 16.7                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 10.0  |                      | 33.0  |                     | 30.0  |                   | 18.0  |                       | 26.0   |                           | -     |                         | 1.4   |                         | NE    |               | -     |                      | 2.0   |                       | 23.0  |
| 1       | 12.0                 | 15.0  | 29.0                 | 32.0  | 15.0                | 33.0  | 12.0              | 17.0  | 68.0                  | 11.5   | -                         | -     | 0.2                     | 1.3   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 14.5                  | 24.0  |
| 2       | 11.0                 | 17.0  | 30.0                 | 33.0  | 18.0                | 32.0  | 13.0              | 18.0  | 53.0                  | 20.0   | -                         | -     | 0.1                     | 0.3   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 15.0                  | 24.5  |
| 3       | 12.0                 | 18.0  | 30.0                 | 35.0  | 19.0                | 29.0  | 15.0              | 19.0  | 63.0                  | 35.0   | -                         | -     | 0.0                     | 0.1   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 15.0                  | 25.5  |
| 4       | 13.0                 | 17.0  | 32.0                 | 34.0  | 18.0                | 29.0  | 16.0              | 21.0  | 80.0                  | 46.0   | -                         | -     | 0.0                     | 0.3   | W                       | SW    | -             | -     | 1.5                  | 2.0   | 17.0                  | 26.0  |
| 5       | 15.0                 | 17.0  | 31.0                 | 33.0  | 17.0                | 28.0  | 15.0              | 20.0  | 80.0                  | 45.0   | -                         | -     | -                       | 0.0   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 18.0                  | 26.5  |
| 6       | 16.0                 | 18.0  | 30.0                 | 34.0  | 19.0                | 29.0  | 16.0              | 21.0  | 72.0                  | 46.0   | -                         | -     | -                       | 0.1   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 27.0  |
| 7       | 17.0                 | 19.0  | 30.0                 | 28.0  | 17.0                | 25.0  | 16.0              | 18.0  | 90.0                  | 47.0   | -                         | -     | -                       | 3.0   | SE                      | SE    | -             | -     | 1.0                  | 1.5   | 20.0                  | 23.0  |
| 8       | 16.0                 | 18.0  | 25.0                 | 30.0  | 19.0                | 28.0  | 15.0              | 21.0  | 63.0                  | 51.0   | -                         | -     | -                       | 0.5   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 17.0                  | 25.5  |
| 9       | 16.0                 | 18.0  | 30.0                 | 28.0  | 19.0                | 32.0  | 17.0              | 28.0  | 81.0                  | 73.0   | -                         | -     | -                       | 0.5   | SW                      | SE    | -             | -     | 1.0                  | 1.5   | 18.0                  | 26.0  |
| 10      | 17.0                 | 19.0  | 30.0                 | 31.0  | 20.0                | 28.0  | 17.0              | 20.0  | 73.0                  | 45.0   | -                         | -     | 0.3                     | 0.2   | SW                      | SE    | -             | -     | 1.5                  | 1.5   | 18.5                  | 27.0  |
| 11      | 16.0                 | 22.0  | 28.0                 | 32.0  | 22.0                | 28.0  | 17.0              | 20.0  | 54.0                  | 45.0   | -                         | -     | -                       | 0.5   | NW                      | NW    | -             | -     | 1.0                  | 1.5   | 17.0                  | 25.5  |
| 12      | 17.0                 | 18.0  | 29.0                 | 29.0  | 19.0                | 24.0  | 17.0              | 18.0  | 81.0                  | 53.0   | -                         | -     | 0.3                     | 0.6   | NW                      | NE    | 7.8           | 0.8   | 1.8                  | 1.0   | 18.0                  | 24.0  |
| 13      | 18.0                 | 19.0  | 25.0                 | 29.0  | 19.0                | 21.0  | 17.0              | 18.0  | 81.0                  | 73.0   | -                         | -     | 0.1                     | 0.3   | NE                      | NW    | 1.2           | -     | 0.2                  | 1.8   | 19.0                  | 23.0  |
| 14      | 16.0                 | 17.0  | 22.0                 | 28.0  | 18.0                | 25.0  | 16.0              | 20.0  | 80.0                  | 61.0   | -                         | -     | 0.6                     | 0.8   | NE                      | NW    | 17.6          | -     | 2.6                  | 1.5   | 16.5                  | 25.0  |
| 15      | 14.0                 | 16.0  | 26.0                 | 30.0  | 17.0                | 24.0  | 14.0              | 17.0  | 70.0                  | 46.0   | -                         | -     | 0.0                     | 0.3   | NE                      | NW    | -             | -     | 1.0                  | 1.5   | 16.0                  | 25.0  |
| 16      | 12.0                 | 17.0  | 25.0                 | 30.0  | 17.0                | 30.0  | 13.0              | 18.0  | 61.0                  | 26.0   | -                         | -     | 0.0                     | 0.6   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 15.0                  | 24.0  |
| 17      | 14.0                 | 18.0  | 28.0                 | 30.0  | 16.0                | 29.0  | 14.0              | 17.0  | 79.0                  | 24.0   | -                         | -     | 0.1                     | 0.9   | SE                      | SW    | -             | -     | 1.0                  | 1.5   | 16.0                  | 24.0  |
| 18      | 15.0                 | 26.0  | 27.0                 | 32.0  | 18.0                | 30.0  | 15.0              | 20.0  | 71.0                  | 36.0   | -                         | -     | 0.1                     | 0.6   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 27.0  |
| 19      | 16.0                 | 17.0  | 28.0                 | 29.0  | 18.0                | 31.0  | 16.0              | 21.0  | 81.0                  | 36.5   | -                         | -     | -                       | 0.1   | SE                      | NW    | -             | -     | 1.0                  | 1.5   | 18.0                  | 27.5  |
| 20      | 17.0                 | 20.0  | 32.0                 | 34.0  | 21.0                | 30.0  | 17.0              | 21.0  | 82.0                  | 42.0   | -                         | -     | -                       | 0.3   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 19.0                  | 28.0  |
| 21      | 16.0                 | 18.0  | 32.0                 | 34.0  | 20.0                | 28.0  | 19.0              | 19.0  | 91.0                  | 39.0   | -                         | -     | -                       | 0.6   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 18.0                  | 27.0  |
| 22      | 15.0                 | 17.0  | 30.0                 | 35.0  | 18.0                | 34.0  | 17.0              | 19.0  | 90.0                  | 19.0   | -                         | -     | -                       | 0.3   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 18.0                  | 28.0  |
| 23      | 16.0                 | 19.0  | 28.0                 | 37.0  | 20.0                | 33.0  | 16.0              | 22.0  | 64.0                  | 34.5   | -                         | -     | 0.0                     | 0.3   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 18.5                  | 29.0  |
| 24      | 17.0                 | 22.0  | 35.0                 | 37.0  | 21.0                | 32.0  | 19.0              | 22.0  | 82.0                  | 39.0   | -                         | -     | -                       | 0.2   | SW                      | NW    | -             | -     | 1.5                  | 2.0   | 19.0                  | 28.0  |
| 25      | 20.0                 | 28.0  | 33.0                 | 36.0  | 23.0                | 33.0  | 18.0              | 23.0  | 59.0                  | 30.5   | -                         | -     | 0.0                     | 0.4   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | -                     | 29.0  |
| 26      | 20.0                 | 27.0  | 35.0                 | 36.0  | 21.0                | 34.0  | 18.0              | 22.0  | 73.0                  | 32.0   | -                         | -     | 0.0                     | 0.9   | SW                      | SW    | -             | -     | 1.0                  | 2.0   | 21.0                  | 29.0  |
| 27      | 21.0                 | 28.0  | 35.0                 | 36.0  | 22.0                | 35.0  | 19.0              | 23.0  | 74.0                  | 33.0   | -                         | -     | 0.1                     | 0.6   | SW                      | SW    | -             | -     | 1.5                  | 2.0   | 22.0                  | 30.0  |
| 28      | 22.0                 |       | 35.0                 |       | 22.0                |       | 20.0              |       | 72.0                  |        | -                         |       | 0.2                     |       | NW                      |       | -             |       | 2.0                  |       | 22.0                  |       |
| Total   | 447.0                | 535.0 | 830.0                | 905.0 | 533.0               | 824.0 | 454.0             | 561.0 | 2068.0                | 1115.0 | -                         | -     | 2.1                     | 16.1  |                         |       | 26.6          | 0.8   | 35.1                 | 49.8  | 484.0                 | 731.0 |
| Average | 16.0                 | 19.1  | 29.6                 | 32.3  | 19.0                | 29.4  | 16.2              | 20.0  | 73.9                  | 39.8   | -                         | -     | 0.1                     | 0.6   |                         |       |               |       |                      |       | 17.3                  | 26.1  |
|         | 17.5                 |       | 31.0                 |       | 24.2                |       | 18.1              |       | 56.8                  |        | 0.0                       |       | 0.3                     |       |                         |       | 27.4          |       | 84.9                 |       | 21.7                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

Mar-18

- 010 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |       | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|-------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30 | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 26.0  |                      | 36.0   |                     | 35.0   |                   | 24.0  |                       | 37.0  |                           | -     |                         | 0.6   |                         | NW    |               | ..    |                      | 2.5   |                       | 30.0  |
| 1       | 23.0                 | 25.0  | 33.0                 | 35.0   | 24.0                | 36.0   | 18.0              | 22.0  | 53.0                  | 26.0  | -                         | -     | 0.1                     | 1.1   | W                       | W     | -             | -     | 2.5                  | 3.0   | -                     | -     |
| 2       | 19.0                 | 25.0  | 37.0                 | 38.0   | 26.0                | 34.0   | 20.0              | 23.0  | 55.0                  | 23.0  | -                         | -     | 0.1                     | 1.7   | W                       | W     | -             | -     | 1.0                  | 2.0   | -                     | -     |
| 3       | 19.0                 | 23.0  | 36.0                 | 38.0   | 23.0                | 34.0   | 18.0              | 20.0  | 59.0                  | 23.0  | -                         | -     | -                       | 1.2   | W                       | W     | -             | -     | 1.5                  | 3.0   | -                     | -     |
| 4       | 20.0                 | 27.0  | 35.0                 | 34.0   | 28.0                | 35.0   | 17.0              | 20.0  | 92.0                  | 19.5  | -                         | -     | -                       | 0.4   | W                       | W     | -             | -     | 2.0                  | 3.5   | -                     | -     |
| 5       | 20.0                 | 21.0  | 36.0                 | 34.0   | 22.0                | 30.0   | 17.0              | 19.0  | 58.0                  | 31.0  | -                         | -     | -                       | 1.7   | W                       | W     | -             | -     | 2.5                  | 3.0   | -                     | 29.0  |
| 6       | 20.0                 | 24.0  | 30.0                 | 34.0   | 25.0                | 33.0   | 18.0              | 20.0  | 47.0                  | 24.5  | -                         | -     | 0.0                     | 0.7   | W                       | W     | -             | -     | 2.5                  | 3.0   | 20.5                  | 28.0  |
| 7       | 19.0                 | 24.0  | 30.0                 | 36.0   | 22.0                | 32.0   | 19.0              | 21.0  | 74.0                  | 44.0  | -                         | -     | 0.0                     | 0.2   | W                       | W     | -             | -     | 2.5                  | 3.0   | 21.0                  | 31.0  |
| 8       | 18.0                 | 21.0  | 34.0                 | 35.0   | 21.0                | 31.0   | 16.0              | 18.0  | 57.0                  | 21.5  | -                         | -     | -                       | 1.1   | E                       | W     | -             | -     | 1.0                  | 3.0   | 20.0                  | 30.0  |
| 9       | 20.0                 | 22.0  | 32.0                 | 35.0   | 22.0                | 32.0   | 18.0              | 23.0  | 66.0                  | 44.0  | -                         | -     | 0.2                     | 0.2   | W                       | W     | -             | -     | 1.5                  | 2.0   | 20.0                  | 30.0  |
| 10      | 19.0                 | 23.0  | 33.0                 | 37.0   | 21.0                | 34.0   | 18.0              | 20.0  | 73.0                  | 23.0  | -                         | -     | 0.0                     | 0.3   | W                       | W     | -             | -     | 2.0                  | 3.0   | 20.0                  | 32.0  |
| 11      | 21.0                 | 22.0  | 35.0                 | 38.0   | 23.0                | 35.0   | 18.0              | 21.0  | 59.0                  | 23.5  | -                         | -     | -                       | 0.3   | W                       | W     | -             | -     | 2.0                  | 3.0   | 22.5                  | 34.0  |
| 12      | 21.0                 | 24.0  | 36.0                 | 37.0   | 24.0                | 34.0   | 19.0              | 20.0  | 60.0                  | 23.0  | -                         | -     | -                       | 0.9   | W                       | W     | -             | -     | 1.5                  | 2.0   | 23.0                  | 32.0  |
| 13      | 20.0                 | 23.0  | 36.0                 | 38.0   | 24.0                | 34.0   | 18.0              | 21.0  | 53.0                  | 27.0  | -                         | -     | -                       | 1.3   | W                       | N     | -             | -     | 1.0                  | 2.5   | 22.5                  | 30.0  |
| 14      | 20.0                 | 23.0  | 35.0                 | 39.0   | 24.0                | 33.0   | 17.0              | 22.0  | 46.0                  | 34.5  | -                         | -     | 0.0                     | 0.4   | N                       | N     | -             | -     | 2.0                  | 4.0   | 21.0                  | 32.0  |
| 15      | 20.0                 | 21.0  | 36.0                 | 36.0   | 22.0                | 32.0   | 19.0              | 20.0  | 74.0                  | 29.0  | -                         | -     | -                       | 1.0   | W                       | SW    | -             | -     | 2.5                  | 3.0   | 27.0                  | 31.0  |
| 16      | 22.0                 | 22.0  | 33.0                 | 26.0   | 23.0                | 33.0   | 20.0              | 20.0  | 75.0                  | 75.0  | -                         | 4.0   | 0.3                     | 1.0   | W                       | W     | 2.2           | -     | 1.2                  | 1.0   | 26.0                  | 27.0  |
| 17      | 18.0                 | 20.0  | 27.0                 | 33.0   | 20.0                | 32.0   | 18.0              | 20.0  | 81.0                  | 29.0  | -                         | -     | 0.0                     | 0.7   | W                       | W     | -             | -     | 1.5                  | 2.0   | 25.0                  | 27.0  |
| 18      | 22.0                 | 26.0  | 32.0                 | 35.0   | 23.0                | 33.0   | 20.0              | 20.0  | 75.0                  | 25.5  | -                         | -     | 0.1                     | 0.3   | E                       | N     | -             | -     | 2.0                  | 3.0   | 26.0                  | 27.0  |
| 19      | 21.0                 | 26.0  | 32.0                 | 36.0   | 25.0                | 33.0   | 19.0              | 20.0  | 54.0                  | 25.5  | -                         | -     | 0.1                     | 0.5   | N                       | W     | -             | -     | 2.5                  | 3.0   | 26.0                  | 28.0  |
| 20      | 19.0                 | 20.0  | 33.0                 | 36.0   | 22.0                | 34.0   | 19.0              | 20.0  | 74.0                  | 23.0  | -                         | -     | 0.0                     | 0.2   | W                       | W     | -             | -     | 3.0                  | 3.5   | 26.0                  | 28.0  |
| 21      | 20.0                 | 24.0  | 34.0                 | 36.0   | 24.0                | 34.0   | 20.0              | 20.0  | 68.0                  | 23.0  | -                         | -     | 0.1                     | 0.2   | W                       | W     | -             | -     | 3.0                  | 3.5   | 26.0                  | 28.5  |
| 22      | 21.0                 | 25.0  | 34.0                 | 37.0   | 21.0                | 34.0   | 19.0              | 21.0  | 82.0                  | 27.0  | -                         | -     | 0.1                     | 0.4   | W                       | W     | -             | -     | 2.0                  | 3.0   | 25.0                  | 28.0  |
| 23      | 22.0                 | 25.0  | 35.0                 | 38.0   | 23.0                | 35.0   | 20.0              | 22.0  | 75.0                  | 28.5  | -                         | -     | 0.0                     | 0.9   | W                       | W     | -             | -     | 2.5                  | 3.5   | 26.0                  | 28.5  |
| 24      | 22.0                 | 23.0  | 36.0                 | 38.0   | 22.0                | 35.0   | 19.0              | 20.0  | 74.0                  | 20.5  | -                         | -     | 0.1                     | 0.8   | W                       | W     | -             | -     | 2.5                  | 3.5   | 25.5                  | 28.5  |
| 25      | 22.0                 | 25.0  | 34.0                 | 38.0   | 25.0                | 35.0   | 19.0              | 20.0  | 54.0                  | 20.5  | -                         | -     | 0.1                     | 0.6   | W                       | W     | -             | -     | 3.0                  | 3.5   | 26.0                  | 29.0  |
| 26      | 22.0                 | 24.0  | 35.0                 | 38.0   | 24.0                | 34.0   | 22.0              | 23.0  | 83.0                  | 36.0  | -                         | -     | 0.0                     | 0.8   | W                       | W     | -             | -     | 3.5                  | 4.0   | 26.0                  | 29.0  |
| 27      | 20.0                 | 20.0  | 34.0                 | 38.0   | 25.0                | 36.0   | 20.0              | 18.0  | 61.0                  | 10.0  | -                         | -     | 0.1                     | 0.4   | W                       | W     | -             | -     | 4.0                  | 4.0   | 26.5                  | 29.0  |
| 28      | 21.0                 | 23.0  | 38.0                 | 39.0   | 35.0                | 36.0   | 20.0              | 22.0  | 19.5                  | 26.0  | -                         | -     | 0.0                     | 0.1   | E                       | W     | -             | -     | 4.0                  | 4.5   | 27.0                  | 30.0  |
| 29      | 22.0                 | 24.0  | 39.0                 | 40.0   | 35.0                | 37.0   | 20.0              | 21.0  | 19.5                  | 18.5  | -                         | -     | 0.1                     | 0.2   | W                       | E     | -             | -     | 4.0                  | 4.5   | 27.0                  | 30.0  |
| 30      | 19.0                 | 25.0  | 39.0                 | 42.0   | 26.0                | 37.0   | -                 | 24.0  | 55.0                  | 30.5  | -                         | -     | -                       | 0.8   | E                       | W     | -             | -     | 2.5                  | 3.5   | 22.5                  | 31.5  |
| 31      | 20.0                 |       | 40.0                 |        | 24.0                |        | 20.0              |       | 60.0                  |       | -                         |       | 0.0                     |       | E                       |       | -             |       | 1.5                  |       | 22.0                  |       |
| Total   | 632.0                | 726.0 | 1069.0               | 1130.0 | 748.0               | 1052.0 | 565.0             | 645.0 | 1936.0                | 872.0 | -                         | 4.0   | 1.4                     | 20.9  |                         |       | 2.2           | - *   | 70.7                 | 95.5  | 626.0                 | 798.0 |
| Average | 20.4                 | 23.4  | 34.5                 | 36.5   | 24.1                | 33.9   | 18.2              | 20.8  | 62.5                  | 28.1  | -                         | 0.1   | 0.0                     | 0.7   |                         |       |               |       |                      |       | 20.2                  | 25.7  |
|         | 21.9                 |       | 35.5                 |        | 29.0                |        | 19.5              |       | 45.3                  |       | 0.1                       |       | 0.4                     |       |                         |       | 2.2 *         |       | 166.2                |       | 23.0                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

Apr-18

- 010 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 23.0  |                      | 42.0   |                     | 35.0   |                   | 22.0  |                       | 27.5   |                           | -     |                         | 0.5   |                         | W     |               | ..    |                      | 3.5   |                       | 32.0  |
| 1       | 22.0                 | 26.0  | 37.0                 | 34.0   | 29.0                | 27.0   | 24.0              | 17.0  | 64.0                  | 32.0   | -                         | 6.0   | 0.0                     | 0.7   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 22.5                  | 31.0  |
| 2       | 19.0                 | 22.0  | 27.0                 | 35.0   | 22.0                | 33.0   | 17.0              | 20.0  | 58.0                  | 24.5   | -                         | -     | 0.4                     | 0.5   | NE                      | N     | -             | -     | 2.5                  | 3.0   | 22.0                  | 30.0  |
| 3       | 24.0                 | 25.0  | 33.0                 | 36.0   | 23.0                | 34.0   | 21.0              | 22.0  | 82.0                  | 32.0   | -                         | -     | 0.1                     | 0.3   | NE                      | N     | -             | -     | 3.0                  | 3.5   | 22.0                  | 29.0  |
| 4       | 25.0                 | 26.0  | 35.0                 | 39.0   | 26.0                | 35.0   | 22.0              | 26.0  | 69.0                  | 46.5   | -                         | -     | 0.1                     | 0.8   | NE                      | N     | -             | -     | 3.5                  | 4.0   | 23.0                  | 30.0  |
| 5       | 24.0                 | 30.0  | 35.0                 | 41.0   | 28.0                | 38.0   | 22.0              | 24.0  | 57.0                  | 28.0   | -                         | -     | 0.0                     | 1.9   | NE                      | NW    | -             | -     | 3.5                  | 4.5   | 24.0                  | 31.0  |
| 6       | 25.0                 | 28.0  | 39.0                 | 41.0   | 29.0                | 36.0   | 24.0              | 25.0  | 64.0                  | 38.0   | -                         | -     | 0.2                     | 0.7   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 24.5                  | 33.5  |
| 7       | 26.0                 | 29.0  | 38.0                 | 38.0   | 29.0                | 36.0   | 21.0              | 22.0  | 46.0                  | 24.0   | -                         | -     | 0.1                     | 0.7   | SW                      | NW    | -             | -     | 1.5                  | 2.5   | 24.0                  | 32.0  |
| 8       | 28.0                 | 27.0  | 37.0                 | 37.0   | 29.0                | 36.0   | 22.0              | 23.0  | 52.0                  | 30.0   | -                         | -     | 0.3                     | 0.6   | SE                      | SW    | -             | -     | 2.0                  | 2.5   | 25.0                  | 32.5  |
| 9       | 24.0                 | 26.0  | 36.0                 | 39.0   | 27.0                | 36.0   | 21.0              | 22.0  | 56.0                  | 26.0   | -                         | 2.0   | 0.5                     | 4.2   | NW                      | SW    | -             | -     | 2.5                  | 3.0   | 25.0                  | 32.0  |
| 10      | 24.0                 | 25.0  | 37.0                 | 38.0   | 26.0                | 35.0   | 22.0              | 24.0  | 69.0                  | 36.5   | -                         | -     | 0.4                     | 0.4   | SE                      | NW    | 0.4           | -     | 2.5                  | 3.0   | 24.5                  | 32.0  |
| 11      | 25.0                 | 29.0  | 37.0                 | 39.0   | 30.0                | 36.0   | 21.0              | 22.0  | 42.0                  | 26.0   | -                         | -     | -                       | 0.7   | SW                      | SW    | -             | -     | 2.0                  | 3.5   | 25.0                  | 32.5  |
| 12      | 24.0                 | 25.0  | 37.0                 | 37.0   | 26.0                | 34.0   | 22.0              | 22.0  | 69.0                  | 32.0   | -                         | -     | 0.0                     | 1.3   | NW                      | NW    | -             | -     | 2.0                  | 3.0   | 24.5                  | 31.5  |
| 13      | 23.0                 | 26.0  | 35.0                 | 38.0   | 26.0                | 35.0   | 22.0              | 23.0  | 69.0                  | 32.5   | -                         | -     | 0.3                     | 0.9   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 25.0                  | 31.5  |
| 14      | 24.0                 | 28.0  | 36.0                 | 40.0   | 28.0                | 32.0   | 22.0              | 21.0  | 57.0                  | 34.0   | 2.0                       | 2.0   | 0.4                     | 6.6   | SW                      | NW    | -             | -     | 2.0                  | 3.5   | 26.0                  | 32.0  |
| 15      | 23.0                 | 29.0  | 32.0                 | 39.0   | 32.0                | 36.0   | 23.0              | 24.0  | 44.0                  | 34.0   | 2.0                       | -     | 1.7                     | 4.2   | N                       | SW    | -             | -     | 3.0                  | 4.0   | 24.0                  | 31.0  |
| 16      | 24.0                 | 27.0  | 34.0                 | 41.0   | 35.0                | 37.0   | 21.0              | 24.0  | 23.5                  | 30.5   | -                         | -     | 2.2                     | 4.4   | NW                      | SW    | -             | -     | 3.5                  | 4.0   | 25.0                  | 34.0  |
| 17      | 26.0                 | 30.0  | 39.0                 | 43.0   | 32.0                | 34.0   | 24.0              | 23.0  | 49.0                  | 36.0   | -                         | 4.0   | 0.0                     | 6.1   | SW                      | NW    | -             | -     | 2.0                  | 3.0   | 27.0                  | 33.5  |
| 18      | 25.0                 | 28.0  | 35.0                 | 42.0   | 28.0                | 39.0   | 23.0              | 22.0  | 64.0                  | 17.5   | -                         | -     | 0.3                     | 1.5   | SE                      | NW    | -             | -     | 2.5                  | 4.0   | 25.5                  | 33.0  |
| 19      | 24.0                 | 32.0  | 40.0                 | 42.0   | 33.0                | 38.0   | 24.0              | 22.0  | 44.5                  | 20.0   | -                         | -     | -                       | 0.5   | NW                      | NW    | -             | -     | 3.0                  | 3.5   | 26.0                  | 33.5  |
| 20      | 24.0                 | 29.6  | 40.0                 | 44.0   | 30.0                | 40.0   | 22.0              | 24.0  | 47.0                  | 23.0   | -                         | -     | 0.0                     | 2.6   | NW                      | SW    | -             | -     | 2.5                  | 3.0   | 25.5                  | 34.0  |
| 21      | 25.0                 | 32.0  | 42.0                 | 44.0   | 32.0                | 40.0   | 24.0              | 22.0  | 49.0                  | 16.0   | -                         | -     | 0.1                     | 1.0   | SE                      | W     | -             | -     | 3.0                  | 4.0   | 27.0                  | 34.0  |
| 22      | 29.0                 | 34.0  | 41.0                 | 43.0   | 34.0                | 39.0   | 22.0              | 29.0  | 32.0                  | 45.5   | -                         | -     | 0.0                     | 1.3   | W                       | NW    | -             | -     | 3.0                  | 4.5   | 29.0                  | 34.0  |
| 23      | 25.0                 | 35.0  | 40.0                 | 42.0   | 37.0                | 39.0   | 22.0              | 27.0  | 22.5                  | 36.5   | -                         | -     | 0.0                     | 0.7   | NW                      | NW    | -             | -     | 2.9                  | 3.5   | 26.5                  | 34.0  |
| 24      | 25.0                 | 32.0  | 40.0                 | 42.0   | 32.0                | 38.0   | 24.0              | 30.0  | 49.0                  | 54.0   | -                         | -     | 0.0                     | 1.9   | NW                      | W     | -             | -     | 3.0                  | 3.5   | 26.5                  | 34.0  |
| 25      | 24.0                 | 28.0  | 39.0                 | 42.0   | 28.0                | 38.0   | 23.0              | 26.0  | 64.0                  | 36.0   | -                         | -     | -                       | 1.0   | NW                      | NW    | -             | -     | 2.0                  | 3.0   | 25.0                  | 33.0  |
| 26      | 22.0                 | 27.0  | 40.0                 | 43.0   | 27.0                | 37.0   | 18.0              | 32.0  | 38.0                  | 69.5   | -                         | -     | -                       | 1.0   | NW                      | SW    | -             | -     | 1.9                  | 4.0   | 24.0                  | 33.0  |
| 27      | 24.0                 | 32.0  | 38.0                 | 42.0   | 32.0                | 39.0   | 29.0              | 29.0  | 79.0                  | 45.5   | -                         | -     | 0.0                     | 1.0   | S                       | SW    | -             | -     | 2.5                  | 3.0   | 25.5                  | 34.5  |
| 28      | 24.0                 | 30.0  | 41.0                 | 43.0   | 31.0                | 39.0   | 26.0              | 25.0  | 28.5                  | 49.5   | -                         | -     | 0.1                     | 0.9   | S                       | SW    | 0.4           | -     | 1.5                  | 3.5   | 26.5                  | 36.0  |
| 29      | 27.0                 | 31.0  | 41.0                 | 43.0   | 33.0                | 40.0   | 25.0              | 24.0  | 49.5                  | 23.0   | -                         | -     | 0.2                     | 0.8   | SE                      | SW    | -             | -     | 3.0                  | 5.0   | 27.5                  | 36.0  |
| 30      | 29.0                 |       | 41.0                 |        | 32.0                |        | 25.0              |       | 55.0                  |        | -                         |       | 0.1                     |       | NE                      |       | -             |       | 1.5                  |       | 27.0                  |       |
| Total   | 737.0                | 851.6 | 1122.0               | 1209.0 | 886.0               | 1091.0 | 678.0             | 718.0 | 1592.5                | 1006.0 | 4.0                       | 14.0  | 7.7                     | 49.8  |                         |       | 0.8           | - *   | 73.8                 | 105.0 | 754.5                 | 980.0 |
| Average | 24.6                 | 28.4  | 37.4                 | 40.3   | 29.5                | 36.4   | 22.6              | 23.9  | 53.1                  | 33.5   | 0.1                       | 0.5   | 0.3                     | 1.7   |                         |       |               |       |                      |       | 25.2                  | 32.7  |
|         | 26.5                 |       | 38.9                 |        | 33.0                |        | 23.3              |       | 43.3                  |        | 0.3                       |       | 1.0                     |       |                         |       | 0.8 *         |       | 178.8                |       | 28.9                  |       |

## Twice Daily Climatic Data

Station Code : EMM00B3

Local River/Basin : Hasdeo

Station Name : Bamnidhi

Sub-Division : MMSD-I,CWC,Raipur

May-18

- 010 .. N.A.

|         | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
|---------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
| Day     | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 32.0   |                      | 42.0   |                     | 33.0   |                   | 21.0  |                       | 29.5   |                           | 2.0   |                         | 0.8   |                         | NE    |               | ..    |                      | 2.0   |                       | 34.0   |
| 1       | 25.0                 | 33.0   | 33.0                 | 41.0   | 33.0                | 34.0   | 27.0              | 26.0  | 61.5                  | 51.0   | -                         | 2.0   | 0.2                     | 1.4   | SW                      | SW    | -             | -     | 2.0                  | 3.0   | 27.0                  | 31.0   |
| 2       | 24.0                 | 33.0   | 34.0                 | 41.0   | 33.0                | 35.0   | 27.0              | 25.0  | 61.5                  | 41.5   | -                         | 4.0   | 0.5                     | 3.7   | SE                      | SW    | -             | -     | 2.5                  | 3.0   | 26.0                  | 31.0   |
| 3       | 24.0                 | 29.0   | 36.0                 | 37.0   | 28.0                | 35.0   | 22.0              | 25.0  | 57.0                  | 41.5   | 2.0                       | -     | 3.7                     | 1.7   | NE                      | SE    | 11.0          | -     | 1.0                  | 2.5   | 25.0                  | 34.0   |
| 4       | 25.0                 | 29.0   | 36.0                 | 40.0   | 30.0                | 38.0   | 24.0              | 25.0  | 59.0                  | 32.0   | 4.0                       | 4.0   | 0.2                     | 5.2   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 26.0                  | 34.5   |
| 5       | 26.0                 | 32.0   | 39.0                 | 43.0   | 32.0                | 39.0   | 24.0              | 26.0  | 49.0                  | 32.5   | 2.0                       | -     | 1.2                     | 7.1   | NE                      | NE    | -             | -     | 2.0                  | 3.0   | 27.0                  | 34.5   |
| 6       | 30.0                 | 41.0   | 40.0                 | 44.0   | 37.0                | 40.0   | 27.0              | 26.0  | 43.5                  | 30.0   | 4.0                       | -     | 1.4                     | 6.1   | NE                      | NE    | -             | -     | 2.5                  | 3.5   | 29.0                  | 35.5   |
| 7       | 28.0                 | 26.0   | 41.0                 | 37.0   | 37.0                | 32.0   | 32.0              | 25.0  | 69.5                  | 55.0   | 4.0                       | 2.0   | 3.6                     | 4.2   | SW                      | SW    | -             | -     | 4.0                  | 3.0   | 30.0                  | 34.0   |
| 8       | 29.0                 | 39.0   | 42.0                 | 45.0   | 36.0                | 40.0   | 30.0              | 25.0  | 63.0                  | 27.0   | 4.0                       | -     | 4.3                     | 5.2   | E                       | SE    | -             | -     | 2.5                  | 4.0   | 30.0                  | 34.5   |
| 9       | 28.0                 | 29.0   | 41.0                 | 45.0   | 28.0                | 42.0   | 20.0              | 26.0  | 45.0                  | 25.0   | -                         | 2.0   | 0.2                     | 3.2   | SE                      | NE    | -             | -     | 2.0                  | 4.5   | 29.0                  | 36.0   |
| 10      | 29.0                 | 26.0   | 43.0                 | 37.0   | 34.0                | 32.0   | 25.0              | 25.0  | 46.0                  | 55.0   | -                         | 2.0   | 0.6                     | 5.4   | NE                      | NW    | -             | -     | 3.0                  | 3.0   | 28.5                  | 34.0   |
| 11      | 29.0                 | 36.0   | 42.0                 | 44.0   | 34.0                | 39.0   | 29.0              | 25.0  | 63.0                  | 28.5   | -                         | -     | 0.6                     | 3.5   | SE                      | SE    | -             | -     | 3.0                  | 3.5   | 29.0                  | 35.0   |
| 12      | 28.0                 | 36.0   | 41.0                 | 43.0   | 35.0                | 40.0   | 30.0              | 26.0  | 38.5                  | 30.0   | 2.0                       | -     | 1.2                     | 5.6   | NE                      | SE    | -             | -     | 1.5                  | 3.5   | 29.0                  | 36.0   |
| 13      | 28.0                 | 35.0   | 41.0                 | 42.0   | 35.0                | 38.0   | 23.0              | 25.0  | 32.5                  | 32.0   | -                         | 4.0   | 2.2                     | 6.2   | SE                      | NE    | -             | -     | 2.5                  | 4.0   | 28.0                  | 34.0   |
| 14      | 25.0                 | 29.0   | 40.0                 | 39.0   | 30.0                | 36.0   | 24.0              | 26.0  | 59.0                  | 43.0   | 4.0                       | 2.0   | 2.4                     | 2.9   | SE                      | E     | 4.4           | -     | 0.4                  | 2.0   | 27.0                  | 35.0   |
| 15      | 23.0                 | 28.0   | 37.0                 | 40.0   | 29.0                | 37.0   | 24.0              | 29.0  | 64.0                  | 53.5   | 4.0                       | 4.0   | 2.4                     | 4.4   | SE                      | NE    | 4.8           | -     | 0.8                  | 2.0   | 26.0                  | 34.0   |
| 16      | 28.0                 | 32.0   | 38.0                 | 42.0   | 32.0                | 38.0   | 27.0              | 25.0  | 67.0                  | 40.0   | -                         | -     | 0.4                     | 5.8   | NE                      | NW    | -             | -     | 2.3                  | 3.0   | 28.0                  | 35.0   |
| 17      | 28.0                 | 32.0   | 40.0                 | 43.0   | 33.0                | 39.0   | 31.0              | 36.0  | 86.5                  | 81.5   | 2.0                       | -     | 0.6                     | 4.6   | NW                      | SE    | -             | -     | 2.4                  | 3.5   | 27.5                  | 35.5   |
| 18      | 28.0                 | 36.0   | 42.0                 | 43.0   | 36.0                | 40.0   | 34.0              | 33.0  | 87.0                  | 61.0   | 4.0                       | 4.0   | 0.7                     | 6.9   | NE                      | NE    | -             | -     | 3.0                  | 4.0   | 29.0                  | 36.0   |
| 19      | 30.0                 | 32.0   | 41.0                 | 42.0   | 34.0                | 41.0   | 26.0              | 27.0  | 51.0                  | 30.5   | 2.0                       | -     | 2.2                     | 2.4   | SE                      | S     | 0.8           | -     | 3.0                  | 3.5   | 28.0                  | 37.0   |
| 20      | 30.0                 | 31.0   | 40.0                 | 44.0   | 36.0                | 40.0   | 30.0              | 31.0  | 63.0                  | 51.0   | 4.0                       | 4.0   | 2.6                     | 2.3   | NE                      | E     | -             | -     | 2.4                  | 3.5   | 29.0                  | 37.0   |
| 21      | 26.0                 | 33.0   | 42.0                 | 42.0   | 34.0                | 40.0   | 23.0              | 27.0  | 36.0                  | 34.0   | 4.0                       | -     | 2.2                     | 3.1   | SW                      | NE    | -             | -     | 2.3                  | 3.4   | 29.0                  | 36.0   |
| 22      | 29.0                 | 35.0   | 41.0                 | 44.0   | 35.0                | 41.0   | 32.0              | 26.0  | 80.5                  | 27.5   | -                         | 4.0   | 0.2                     | 5.2   | NE                      | E     | -             | -     | 3.2                  | 4.0   | 30.0                  | 37.0   |
| 23      | 29.0                 | 35.0   | 42.0                 | 44.0   | 36.0                | 41.0   | 26.0              | 27.0  | 43.0                  | 30.5   | 4.0                       | -     | 1.0                     | 4.2   | NE                      | E     | -             | -     | 3.4                  | 4.1   | 30.5                  | 37.5   |
| 24      | 30.0                 | 34.0   | 42.0                 | 44.0   | 36.0                | 40.0   | 23.0              | 27.0  | 30.0                  | 34.0   | 4.0                       | -     | 1.5                     | 4.5   | NE                      | NE    | -             | -     | 3.5                  | 4.0   | 29.0                  | 38.0   |
| 25      | 29.0                 | 35.0   | 42.0                 | 43.0   | 34.0                | 42.0   | 25.0              | 28.0  | 46.0                  | 32.0   | 2.0                       | -     | 2.1                     | 3.2   | NW                      | NW    | -             | -     | 2.0                  | 3.0   | 25.0                  | 33.0   |
| 26      | 29.0                 | 30.0   | 42.0                 | 40.0   | 35.0                | 36.0   | 27.0              | 30.0  | 51.5                  | 63.0   | -                         | -     | 1.8                     | 3.0   | NW                      | SW    | 0.8           | -     | 1.9                  | 4.0   | 24.0                  | 33.0   |
| 27      | 32.0                 | 31.0   | 41.0                 | 41.0   | 35.0                | 34.0   | 26.0              | 30.0  | 46.5                  | 74.0   | -                         | -     | 0.6                     | 3.5   | S                       | SW    | -             | -     | 2.5                  | 3.0   | 25.5                  | 34.5   |
| 28      | 32.0                 | 35.0   | 42.0                 | 43.0   | 34.0                | 42.0   | 27.0              | 26.0  | 56.0                  | 25.0   | -                         | -     | 1.4                     | 5.9   | S                       | SW    | -             | -     | 1.5                  | 3.5   | 26.5                  | 36.0   |
| 29      | 30.0                 | 37.0   | 43.0                 | 44.0   | 33.0                | 36.0   | 25.0              | 26.0  | 49.5                  | 43.0   | -                         | -     | 1.4                     | 4.2   | SE                      | SW    | -             | -     | 3.0                  | 4.0   | 27.5                  | 36.0   |
| 30      | 30.0                 | 32.0   | 43.0                 | 44.0   | 39.0                | 41.0   | 28.0              | 28.0  | 40.5                  | 34.5   | -                         | 2.0   | 1.5                     | 3.5   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 27.0                  | 34.0   |
| 31      | 25.0                 |        | 43.0                 |        | 30.0                |        | 25.0              |       | 65.0                  |        | 2.0                       |       | 2.8                     |       | NW                      |       | 5.2           |       | ..                   |       | 28.0                  |        |
| Total   | 866.0                | 1013.0 | 1250.0               | 1303.0 | 1043.0              | 1181.0 | 823.0             | 833.0 | 1711.0                | 1268.5 | 58.0                      | 42.0  | 47.6                    | 128.9 |                         |       | 27.0          | - *   | 69.6 *               | 102.0 | 860.0                 | 1082.5 |
| Average | 27.9                 | 32.7   | 40.3                 | 42.0   | 33.6                | 38.1   | 26.5              | 26.9  | 55.2                  | 40.9   | 1.9                       | 1.4   | 1.5                     | 4.2   |                         |       |               |       |                      |       | 27.7                  | 34.9   |
|         | 30.3                 |        | 41.2                 |        | 35.9                |        | 26.7              |       | 48.1                  |        | 1.6                       |       | 2.8                     |       |                         |       | 27.0 *        |       | 171.6 *              |       | 31.3                  |        |

## Twice Daily Climatic Data

Station Code : EMK00E2

Local River/Basin : Mand

Station Name : KURUBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPoPM   |                      | 32.0  |                      | 43.0   |                     | 37.0   |                   | 31.0  |                       | 64.0   |                           | -     |                         | 2.6   |                         | S     |               | -     |                      | 4.0   |                       | ..      |
| 1       | 28.0                 | 36.0  | 36.0                 | 43.0   | 34.0                | 37.0   | 30.0              | 31.0  | 74.0                  | 63.0   | -                         | -     | 0.3                     | 2.6   | E                       | NE    | -             | -     | 2.0                  | 4.0   | 31.5                  | 37.5    |
| 2       | 32.0                 | 36.0  | 36.0                 | 42.0   | 33.0                | 39.0   | 30.0              | 32.0  | 79.0                  | 60.0   | -                         | -     | 1.0                     | 3.1   | W                       | S     | -             | -     | 2.0                  | 4.0   | 31.0                  | 37.0    |
| 3       | 32.0                 | 37.0  | 38.0                 | 42.0   | 35.0                | 39.0   | 32.0              | 32.0  | 80.0                  | 60.0   | -                         | -     | 0.8                     | 2.5   | S                       | S     | -             | -     | 4.0                  | 4.0   | 33.0                  | 37.5    |
| 4       | 33.0                 | 37.0  | 40.0                 | 44.0   | 37.0                | 39.0   | 32.0              | 33.0  | 69.0                  | 65.0   | -                         | -     | 0.3                     | 3.6   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 33.0                  | 37.0    |
| 5       | 35.0                 | 38.0  | 39.0                 | 46.0   | 35.0                | 35.0   | 31.0              | 31.0  | 74.0                  | 74.0   | -                         | 2.0   | 0.4                     | 2.8   | SW                      | S     | -             | 0.8   | 4.0                  | 3.8   | 32.0                  | 37.0    |
| 6       | 32.0                 | 36.0  | 35.0                 | 44.0   | 32.0                | 34.0   | 29.0              | 30.0  | 79.0                  | 74.0   | -                         | -     | 1.4                     | 2.2   | SW                      | N     | 1.2           | -     | 3.2                  | 3.0   | 31.0                  | 34.0    |
| 7       | 34.0                 | 35.0  | 36.0                 | 40.0   | 32.0                | 37.0   | 29.0              | 32.0  | 79.0                  | 70.0   | -                         | -     | 0.8                     | 2.0   | E                       | N     | -             | -     | 2.0                  | 2.0   | 29.0                  | 31.0    |
| 8       | 31.0                 | 34.0  | 36.0                 | 39.0   | 32.0                | 36.0   | 28.0              | 31.0  | 85.0                  | 69.0   | -                         | -     | 1.0                     | 1.8   | E                       | E     | 4.8           | 1.4   | 1.8                  | 3.4   | 29.0                  | 30.0    |
| 9       | 33.0                 | 33.0  | 37.0                 | 38.0   | 31.0                | 35.0   | 29.0              | 30.0  | 85.0                  | 69.0   | -                         | -     | 0.4                     | 1.9   | NW                      | E     | -             | -     | 2.0                  | 2.0   | 30.0                  | 35.0    |
| 10      | 34.0                 | 33.0  | 38.0                 | 37.0   | 32.0                | 35.0   | 29.0              | 30.0  | 79.0                  | 69.0   | -                         | -     | 1.1                     | 2.1   | SW                      | W     | -             | -     | 2.0                  | 2.0   | 31.0                  | 34.0    |
| 11      | 35.0                 | 32.0  | 38.0                 | 36.0   | 32.0                | 33.0   | 29.0              | 29.0  | 79.0                  | 73.0   | -                         | -     | 0.3                     | 2.3   | NW                      | SW    | -             | 2.8   | 2.0                  | 3.4   | 31.0                  | 33.0    |
| 12      | 33.0                 | 33.0  | 35.0                 | 36.0   | 30.0                | 34.0   | 28.0              | 30.0  | 85.0                  | 74.0   | -                         | -     | 0.1                     | 2.9   | SW                      | E     | -             | -     | 2.0                  | 3.0   | 29.0                  | 34.0    |
| 13      | 38.0                 | 33.0  | 38.0                 | 36.0   | 30.0                | 35.0   | 28.0              | 32.0  | 85.0                  | 81.0   | -                         | -     | 0.5                     | 3.6   | SW                      | S     | 0.8           | -     | 2.8                  | 3.0   | 29.0                  | 34.0    |
| 14      | 28.0                 | 34.0  | 32.0                 | 37.0   | 31.0                | 35.0   | 28.0              | 32.0  | 79.0                  | 81.0   | -                         | -     | 0.1                     | 3.5   | SW                      | S     | -             | -     | 2.0                  | 2.0   | 29.5                  | 35.0    |
| 15      | 29.0                 | 35.0  | 32.0                 | 38.0   | 32.0                | 34.0   | 29.0              | 32.0  | 78.0                  | 86.0   | -                         | -     | 0.2                     | 1.7   | S                       | S     | -             | -     | 2.0                  | 2.0   | 29.0                  | 34.0    |
| 16      | 28.0                 | 34.0  | 31.0                 | 36.0   | 31.0                | 33.0   | 28.0              | 30.0  | 79.0                  | 80.0   | -                         | -     | 1.3                     | 3.3   | NW                      | S     | 26.6          | -     | 2.6                  | 2.0   | 30.0                  | 33.0    |
| 17      | 30.0                 | 34.0  | 32.0                 | 39.0   | 31.0                | 36.0   | 29.0              | 31.0  | 86.0                  | 67.0   | -                         | -     | 0.5                     | 1.8   | SW                      | SE    | 0.8           | -     | 2.3                  | 3.0   | 29.5                  | 37.0    |
| 18      | 31.0                 | 34.0  | 35.0                 | 40.0   | 32.0                | 37.0   | 29.0              | 32.0  | 79.0                  | 71.0   | -                         | -     | 0.5                     | 1.8   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 30.5                  | 38.0    |
| 19      | 30.0                 | 33.0  | 36.0                 | 38.0   | 31.0                | 36.0   | 29.0              | 32.0  | 86.0                  | 75.0   | -                         | -     | 0.7                     | 2.2   | SW                      | S     | 2.8           | -     | 1.8                  | 3.0   | 30.0                  | 37.0    |
| 20      | 29.0                 | 31.0  | 35.0                 | 37.0   | 28.0                | 36.0   | 26.0              | 32.0  | 85.0                  | 75.0   | -                         | -     | 0.3                     | 1.8   | NW                      | SE    | 14.2          | -     | 2.2                  | 3.0   | 29.0                  | 37.0    |
| 21      | 28.0                 | 30.0  | 34.0                 | 35.0   | 28.0                | 33.0   | 27.0              | 31.0  | 92.0                  | 86.0   | -                         | -     | 0.6                     | 1.9   | S                       | S     | 18.6          | -     | 2.6                  | 2.5   | 28.0                  | 26.0    |
| 22      | 29.0                 | 32.0  | 33.0                 | 34.0   | 30.0                | 33.0   | 28.0              | 30.0  | 85.0                  | 80.0   | 2.0                       | -     | 1.2                     | 2.0   | SW                      | SW    | 3.6           | -     | 1.6                  | 3.0   | 29.0                  | 35.0    |
| 23      | 28.0                 | 30.0  | 32.0                 | 34.0   | 28.0                | 32.0   | 27.5              | 30.5  | 96.0                  | 89.0   | -                         | -     | 0.1                     | 1.6   | NE                      | SE    | 32.4          | -     | 2.4                  | 2.0   | 27.5                  | 34.5    |
| 24      | 29.0                 | 32.0  | 31.5                 | 34.0   | 29.0                | 30.0   | 28.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 1.7   | NE                      | NE    | 0.8           | 2.0   | 2.8                  | 2.0   | 28.5                  | 34.5    |
| 25      | 28.0                 | 31.0  | 31.0                 | 34.0   | 28.0                | 30.0   | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.3                     | 0.6   | SE                      | SE    | 1.8           | -     | 2.3                  | 2.0   | 28.0                  | 34.0    |
| 26      | 27.0                 | 30.0  | 30.0                 | 35.0   | 27.0                | 29.0   | 26.0              | 27.0  | 92.0                  | 86.0   | -                         | 2.0   | 0.2                     | 2.0   | SW                      | SW    | 84.0          | -     | 2.0                  | 3.0   | 27.5                  | 33.0    |
| 27      | 28.0                 | 32.0  | 30.0                 | 37.0   | 28.0                | 29.0   | 26.0              | 28.0  | 85.0                  | 92.0   | -                         | 4.0   | 0.2                     | 1.1   | SE                      | NE    | -             | 4.6   | 2.0                  | 2.6   | 28.5                  | 31.5    |
| 28      | 30.0                 | 30.0  | 31.0                 | 34.0   | 27.0                | 28.0   | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 0.6   | NW                      | SE    | 18.4          | 34.0  | 2.4                  | 2.0   | 28.0                  | 28.5    |
| 29      | 29.0                 | 29.0  | 30.0                 | 38.0   | 26.0                | 29.0   | 25.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.4                     | 0.4   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 31.0    |
| 30      | 28.0                 |       | 32.0                 |        | 28.0                |        | 26.0              |       | 85.0                  |        | -                         |       | 0.4                     |       | SW                      |       | 56.2          |       | 2.2                  |       | 27.0                  |         |
| Total   | 919.0                | 996.0 | 1029.5               | 1146.0 | 920.0               | 1025.0 | 847.5             | 912.5 | 2500.0                | 2287.0 | 2.0                       | 8.0   | 15.7                    | 64.1  |                         |       | 267.0         | 45.6  | 71.0                 | 83.7  | 886.0                 | 990.0 * |
| Average | 30.6                 | 33.2  | 34.3                 | 38.2   | 30.7                | 34.2   | 28.3              | 30.4  | 83.3                  | 76.2   | 0.1                       | 0.3   | 0.5                     | 2.1   |                         |       |               |       |                      |       | 29.5                  | 34.1 *  |
|         | 31.9                 |       | 36.3                 |        | 32.4                |        | 29.3              |       | 79.8                  |        | 0.2                       |       | 1.3                     |       |                         |       | 312.6         |       | 154.7                |       | 31.8 *                |         |

## Twice Daily Climatic Data

Station Code : EMK00E2

Local River/Basin : Mand

Station Name : KURUBHATA

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Jul-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 30.0  |                      | 37.0   |                     | 28.0  |                   | 27.0  |                       | 92.0   |                           | -     |                         | 0.7   |                         | NW    |               | 3.8   |                      | 1.8   |                       | 30.0  |
| 1       | 28.0                 | 28.0  | 35.0                 | 38.0   | 28.0                | 29.0  | 27.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.3                     | 2.0   | SE                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 32.0  |
| 2       | 28.0                 | 29.0  | 37.0                 | 38.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.4                     | 3.0   | SE                      | SE    | 0.6           | -     | 1.6                  | 2.0   | 27.0                  | 31.0  |
| 3       | 27.0                 | 27.0  | 34.0                 | 36.0   | 28.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.6                     | 0.7   | SE                      | S     | 49.2          | 30.4  | 1.2                  | 2.4   | 26.0                  | 28.0  |
| 4       | 28.0                 | 28.0  | 35.0                 | 37.0   | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.4                     | 1.4   | SE                      | SW    | 3.4           | 0.8   | 1.4                  | 1.8   | 26.0                  | 29.0  |
| 5       | 27.0                 | 27.0  | 32.0                 | 36.0   | 27.0                | 26.0  | 26.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | 0.8                     | 1.5   | SW                      | NW    | 13.6          | 7.0   | 1.6                  | 2.0   | 26.0                  | 28.0  |
| 6       | 27.0                 | 28.0  | 30.0                 | 32.0   | 28.0                | 27.0  | 27.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 1.5   | SW                      | W     | 1.2           | 1.4   | 1.2                  | 1.4   | 27.5                  | 32.0  |
| 7       | 27.0                 | 31.0  | 29.0                 | 34.0   | 29.0                | 28.0  | 28.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | -     | 0.1                     | 1.6   | S                       | SW    | -             | -     | 1.0                  | 3.0   | 28.5                  | 34.0  |
| 8       | 28.0                 | 31.0  | 37.0                 | 35.0   | 29.0                | 33.0  | 28.0              | 30.0  | 92.0                  | 79.0   | -                         | -     | 0.2                     | 1.4   | NW                      | NW    | -             | -     | 4.0                  | 2.0   | 29.0                  | 36.0  |
| 9       | 27.0                 | 30.0  | 32.0                 | 34.0   | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.3                     | 1.4   | SW                      | SW    | 3.4           | 21.8  | 2.0                  | 1.8   | 29.0                  | 32.0  |
| 10      | 26.0                 | 28.0  | 35.0                 | 30.0   | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.5                     | 0.8   | SW                      | SW    | 41.2          | 4.4   | 1.2                  | 1.4   | 26.5                  | 29.0  |
| 11      | 27.0                 | 28.0  | 34.0                 | 30.0   | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 0.3   | SW                      | S     | 6.0           | -     | 1.0                  | 1.0   | 26.0                  | 28.5  |
| 12      | 27.0                 | 29.0  | 34.0                 | 32.0   | 27.0                | 31.0  | 26.0              | 29.0  | 92.0                  | 85.0   | -                         | 2.0   | 0.3                     | 1.4   | SW                      | S     | 1.0           | -     | 2.0                  | 2.0   | 27.0                  | 33.0  |
| 13      | 28.0                 | 30.0  | 34.0                 | 33.0   | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 1.4   | SE                      | S     | 1.4           | -     | 1.4                  | 2.0   | 27.0                  | 33.5  |
| 14      | 28.0                 | 29.0  | 33.0                 | 33.0   | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 1.0   | S                       | S     | 2.2           | -     | 2.2                  | 2.0   | 27.5                  | 33.0  |
| 15      | 28.0                 | 30.0  | 37.0                 | 33.0   | 28.0                | 27.0  | 27.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 1.0   | S                       | NW    | -             | 15.2  | 2.0                  | 1.4   | 27.0                  | 33.0  |
| 16      | 26.0                 | 31.0  | 29.0                 | 32.0   | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 1.0   | NW                      | NW    | 21.2          | -     | 1.2                  | 2.0   | 27.5                  | 31.5  |
| 17      | 28.0                 | 30.0  | 29.0                 | 33.0   | 28.0                | 32.0  | 27.0              | 30.0  | 92.0                  | 86.0   | -                         | -     | 0.4                     | 1.6   | NW                      | NW    | 16.4          | -     | 1.4                  | 2.0   | 28.0                  | 34.0  |
| 18      | 30.0                 | 31.0  | 32.0                 | 33.0   | 30.0                | 32.0  | 28.0              | 30.0  | 85.0                  | 86.0   | 2.0                       | -     | 0.1                     | 2.6   | NW                      | E     | -             | -     | 2.0                  | 2.0   | 30.5                  | 34.0  |
| 19      | 30.0                 | 30.0  | 32.0                 | 33.0   | 29.0                | 31.0  | 27.0              | 30.0  | 85.0                  | 93.0   | 2.0                       | -     | 1.8                     | 0.7   | NE                      | E     | -             | -     | 2.0                  | 2.0   | 30.5                  | 33.0  |
| 20      | 29.0                 | 30.0  | 31.0                 | 31.0   | 28.0                | 30.0  | 26.0              | 29.0  | 85.0                  | 93.0   | -                         | -     | 1.5                     | 1.9   | SW                      | SE    | 11.4          | -     | 1.4                  | 2.0   | 29.5                  | 30.5  |
| 21      | 28.0                 | 29.0  | 32.0                 | 30.0   | 27.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | -     | 0.5                     | 1.7   | SE                      | SE    | 2.2           | -     | 1.2                  | 2.0   | 29.0                  | 31.0  |
| 22      | 28.0                 | 30.0  | 30.0                 | 34.0   | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.3                     | 1.2   | S                       | SW    | 0.4           | -     | 1.4                  | 2.0   | 28.5                  | 30.5  |
| 23      | 29.0                 | 28.0  | 31.0                 | 32.0   | 27.0                | 27.0  | 26.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.3                     | 0.4   | SW                      | SE    | 6.8           | 28.8  | 1.8                  | 1.8   | 29.5                  | 27.0  |
| 24      | 28.0                 | 27.0  | 34.0                 | 30.0   | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | -     | 0.8                     | 0.7   | S                       | S     | 4.8           | 12.2  | 0.8                  | 1.2   | 28.5                  | 27.0  |
| 25      | 29.0                 | 28.0  | 32.0                 | 31.0   | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 0.4   | SW                      | SW    | -             | 0.6   | 1.0                  | 1.6   | 29.5                  | 27.5  |
| 26      | 28.0                 | 25.0  | 30.0                 | 30.0   | 25.0                | 25.0  | 24.0              | 24.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 0.8                     | 2.4   | S                       | S     | 3.4           | 7.8   | 1.4                  | 1.8   | 28.5                  | 26.0  |
| 27      | 26.0                 | 27.0  | 28.0                 | 29.0   | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | 1.5                     | 1.4   | S                       | SE    | 9.4           | 1.6   | 1.4                  | 1.6   | 26.5                  | 26.5  |
| 28      | 27.0                 | 29.0  | 29.0                 | 32.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 1.3   | S                       | S     | 0.6           | -     | 1.0                  | 1.8   | 27.5                  | 28.5  |
| 29      | 25.0                 | 29.0  | 30.0                 | 32.0   | 29.0                | 32.0  | 27.0              | 29.0  | 85.0                  | 79.0   | -                         | -     | 0.1                     | 1.3   | SE                      | SW    | -             | -     | 1.5                  | 2.0   | 27.5                  | 29.0  |
| 30      | 26.0                 | 30.0  | 31.0                 | 32.0   | 29.0                | 30.0  | 28.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.5   | SW                      | NW    | -             | -     | 1.5                  | 2.0   | 27.5                  | 29.5  |
| 31      | 26.0                 |       | 32.0                 |        | 29.0                |       | 28.0              |       | 92.0                  |        | -                         |       | 0.0                     |       | NW                      |       | -             |       | 1.5                  |       | 28.0                  |       |
| Total   | 854.0                | 897.0 | 1000.0               | 1022.0 | 854.0               | 893.0 | 818.0             | 848.0 | 2817.0                | 2760.0 | 12.0                      | 4.0   | 13.3                    | 40.1  |                         |       | 199.8         | 135.8 | 48.3                 | 57.8  | 864.5                 | 947.5 |
| Average | 27.5                 | 28.9  | 32.3                 | 33.0   | 27.5                | 28.8  | 26.4              | 27.4  | 90.9                  | 89.0   | 0.4                       | 0.1   | 0.4                     | 1.3   |                         |       |               |       |                      |       | 27.9                  | 30.6  |
|         | 28.2                 |       | 32.6                 |        | 28.2                |       | 26.9              |       | 90.0                  |        | 0.3                       |       | 0.9                     |       |                         |       | 335.6         |       | 106.1                |       | 29.2                  |       |

## Twice Daily Climatic Data

Station Code : EMK00E2  
Local River/Basin : Mand

Station Name : KURUBHATA  
Sub-Division : MMSD II,CWC,Burla  
- 0.0 .. N.A.

| Aug-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 29.0  |                      | 31.0  |                     | 28.0  |                   | 27.0  |                       | 92.0   |                           | -     |                         | 0.6   |                         | S     |               | 10.2  |                      | 1.2   |                       | 29.0  |
| 1       | 27.0                 | 30.0  | 33.0                 | 32.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.0                     | 0.9   | S                       | NW    | -             | 0.4   | 1.0                  | 1.4   | 27.5                  | 29.0  |
| 2       | 27.0                 | 30.0  | 32.0                 | 34.0  | 27.0                | 31.0  | 26.0              | 29.0  | 92.0                  | 86.0   | -                         | 2.0   | 0.4                     | 1.1   | NW                      | W     | 9.6           | -     | 1.6                  | 2.0   | 27.0                  | 32.0  |
| 3       | 29.0                 | 30.0  | 34.0                 | 34.0  | 29.0                | 27.0  | 28.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 1.7   | SW                      | NW    | -             | -     | 1.6                  | 1.8   | 28.5                  | 34.0  |
| 4       | 28.0                 | 30.0  | 30.0                 | 33.0  | 28.0                | 29.0  | 27.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 1.3   | SE                      | SE    | 4.2           | -     | 1.2                  | 2.0   | 28.0                  | 32.5  |
| 5       | 28.0                 | 30.0  | 30.0                 | 33.0  | 29.0                | 27.0  | 28.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.4                     | 0.8   | NW                      | NW    | 3.6           | 10.6  | 1.1                  | 1.6   | 29.0                  | 32.0  |
| 6       | 27.0                 | 29.0  | 31.0                 | 32.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.4   | NW                      | NW    | 1.0           | 15.4  | 1.0                  | 1.4   | 28.0                  | 31.0  |
| 7       | 28.0                 | 30.0  | 30.0                 | 32.0  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 0.5   | NW                      | NW    | 0.6           | -     | 1.0                  | 2.0   | 29.0                  | 30.0  |
| 8       | 29.0                 | 30.0  | 31.0                 | 32.0  | 29.0                | 29.0  | 28.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.6                     | 0.6   | SW                      | E     | 7.0           | 0.6   | 1.0                  | 1.6   | 29.5                  | 31.0  |
| 9       | 27.0                 | 30.0  | 30.0                 | 31.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.5                     | 0.6   | S                       | SE    | 20.2          | -     | 1.2                  | 1.8   | 28.0                  | 32.5  |
| 10      | 28.0                 | 29.0  | 29.0                 | 33.0  | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 1.1                     | 1.9   | SE                      | SW    | 2.2           | -     | 1.2                  | 2.0   | 28.5                  | 32.5  |
| 11      | 27.0                 | 28.0  | 29.0                 | 32.0  | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 1.4   | SW                      | NW    | -             | 0.8   | 1.5                  | 1.8   | 27.5                  | 30.0  |
| 12      | 27.0                 | 29.0  | 30.0                 | 33.0  | 27.0                | 29.0  | 26.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.6   | SW                      | SE    | 1.6           | -     | 1.6                  | 2.0   | 27.5                  | 32.0  |
| 13      | 28.0                 | 30.0  | 33.0                 | 32.0  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.3                     | 0.6   | SE                      | SW    | -             | 7.2   | 1.8                  | 1.2   | 28.0                  | 32.5  |
| 14      | 28.0                 | 29.0  | 31.0                 | 33.0  | 28.0                | 27.0  | 27.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 1.5   | SW                      | E     | -             | 13.0  | 2.0                  | 2.0   | 28.0                  | 32.0  |
| 15      | 28.0                 | 31.0  | 32.0                 | 33.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.0                     | 1.0   | E                       | SW    | 2.6           | -     | 1.6                  | 2.0   | 28.5                  | 31.0  |
| 16      | 28.0                 | 30.0  | 31.0                 | 33.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.2                     | 0.4   | SW                      | SE    | 13.4          | -     | 1.4                  | 2.0   | 28.5                  | 33.0  |
| 17      | 28.0                 | 30.0  | 31.0                 | 32.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.2   | SE                      | S     | 5.2           | 18.6  | 1.2                  | 1.6   | 28.5                  | 33.0  |
| 18      | 26.0                 | 30.0  | 29.0                 | 31.0  | 28.0                | 30.0  | 27.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.1                     | 0.6   | S                       | NE    | -             | -     | 1.0                  | 2.0   | 27.5                  | 31.0  |
| 19      | 27.0                 | 29.0  | 29.0                 | 30.0  | 28.0                | 27.0  | 27.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.9                     | 1.8   | NE                      | NE    | -             | 7.4   | 1.4                  | 1.4   | 28.0                  | 32.5  |
| 20      | 27.0                 | 29.0  | 30.0                 | 32.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | 2.0   | 1.8                     | 2.6   | NW                      | NE    | -             | 5.4   | 1.4                  | 1.4   | 27.5                  | 30.0  |
| 21      | 27.0                 | 29.0  | 29.0                 | 31.0  | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.5                     | 0.7   | S                       | NW    | 0.8           | -     | 1.2                  | 1.8   | 27.5                  | 33.0  |
| 22      | 27.0                 | 30.0  | 29.0                 | 33.0  | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.7   | SE                      | NE    | 7.2           | -     | 1.2                  | 2.0   | 28.0                  | 33.0  |
| 23      | 28.0                 | 30.0  | 31.0                 | 32.0  | 29.0                | 30.0  | 28.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.0                     | 0.8   | NE                      | E     | -             | 21.0  | 2.0                  | 1.5   | 28.0                  | 35.0  |
| 24      | 29.0                 | 29.0  | 30.0                 | 31.0  | 28.0                | 27.0  | 26.0              | 26.0  | 85.0                  | 92.0   | -                         | -     | 0.0                     | 0.3   | E                       | SE    | 0.4           | 8.6   | 1.4                  | 1.6   | 28.0                  | 33.0  |
| 25      | 28.0                 | 30.0  | 30.0                 | 32.0  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.7   | NE                      | NE    | 1.6           | 1.0   | 1.6                  | 1.5   | 28.5                  | 31.0  |
| 26      | 29.0                 | 30.0  | 31.0                 | 32.0  | 29.0                | 30.0  | 28.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.0                     | 0.3   | NE                      | NE    | -             | -     | 1.5                  | 2.0   | 29.5                  | 38.0  |
| 27      | 29.0                 | 29.0  | 31.0                 | 32.0  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.0                     | 0.9   | NE                      | E     | -             | -     | 1.0                  | 1.5   | 29.0                  | 32.5  |
| 28      | 28.0                 | 28.0  | 30.0                 | 30.0  | 28.0                | 27.0  | 27.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 1.1   | E                       | E     | -             | 17.0  | 1.0                  | 1.0   | 28.0                  | 32.5  |
| 29      | 28.0                 | 29.0  | 30.0                 | 31.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | -     | 1.8                     | 1.7   | E                       | NE    | -             | -     | 1.2                  | 2.0   | 27.0                  | 31.0  |
| 30      | 27.0                 | 29.0  | 29.0                 | 32.0  | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 85.0   | -                         | -     | 0.2                     | 0.3   | E                       | S     | -             | -     | 1.2                  | 2.0   | 28.0                  | 32.0  |
| 31      | 27.0                 |       | 30.0                 |       | 28.0                |       | 27.0              |       | 92.0                  |        | -                         |       | 0.6                     |       | NW                      |       | -             |       | 2.0                  |       | 28.0                  |       |
| Total   | 859.0                | 915.0 | 945.0                | 994.0 | 868.0               | 894.0 | 836.0             | 858.0 | 2845.0                | 2825.0 | 2.0                       | 4.0   | 10.7                    | 28.5  |                         |       | 81.2          | 137.2 | 42.1                 | 53.1  | 872.0                 | 993.5 |
| Average | 27.7                 | 29.5  | 30.5                 | 32.1  | 28.0                | 28.8  | 27.0              | 27.7  | 91.8                  | 91.1   | 0.1                       | 0.1   | 0.3                     | 0.9   |                         |       |               |       |                      |       | 28.1                  | 32.0  |
|         | 28.6                 |       | 31.3                 |       | 28.4                |       | 27.3              |       | 91.5                  |        | 0.1                       |       | 0.6                     |       |                         |       | 218.4         |       | 95.2                 |       | 30.1                  |       |

## Twice Daily Climatic Data

Station Code : EMK00E2

Local River/Basin : Mand

Station Name : KURUBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Sep-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 30.0  |                      | 33.0  |                     | 30.0  |                   | 29.0  |                       | 93.0   |                           | -     |                         | 0.9   |                         | SW    |               | 1.6   |                      | 1.6   |                       | 33.0  |
| 1       | 28.0                 | 30.0  | 32.0                 | 33.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.0                     | 0.7   | SW                      | SE    | -             | -     | 2.0                  | 2.0   | 29.0                  | 32.5  |
| 2       | 28.0                 | 29.0  | 32.0                 | 32.0  | 29.0                | 27.0  | 28.0              | 26.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.5   | SE                      | E     | 0.2           | 26.8  | 1.2                  | 1.8   | 28.5                  | 30.0  |
| 3       | 28.0                 | 29.0  | 31.0                 | 33.0  | 27.0                | 31.0  | 26.0              | 29.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.6   | NW                      | SE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 35.0  |
| 4       | 29.0                 | 31.0  | 31.0                 | 34.0  | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.6   | NW                      | N     | -             | -     | 1.8                  | 2.0   | 29.0                  | 36.0  |
| 5       | 28.0                 | 31.0  | 30.0                 | 35.0  | 29.0                | 32.0  | 28.0              | 30.0  | 92.0                  | 86.0   | -                         | -     | 0.1                     | 0.4   | N                       | NE    | -             | -     | 2.0                  | 2.0   | 30.0                  | 37.0  |
| 6       | 29.0                 | 31.0  | 31.0                 | 34.0  | 29.0                | 30.0  | 28.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.9   | NE                      | NW    | -             | -     | 1.5                  | 2.0   | 29.5                  | 35.0  |
| 7       | 29.0                 | 30.0  | 30.0                 | 33.0  | 29.0                | 32.0  | 28.0              | 30.0  | 92.0                  | 86.0   | -                         | -     | 0.1                     | 0.3   | NW                      | NW    | -             | -     | 1.6                  | 2.0   | 29.0                  | 34.5  |
| 8       | 29.0                 | 28.0  | 31.0                 | 34.0  | 30.0                | 30.0  | 29.0              | 28.0  | 93.0                  | 85.0   | -                         | -     | 0.0                     | 0.5   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 29.5                  | 33.5  |
| 9       | 28.0                 | 30.0  | 30.0                 | 34.0  | 29.0                | 28.0  | 28.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.0                     | 0.9   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 34.5  |
| 10      | 28.0                 | 29.0  | 30.0                 | 33.0  | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 86.0   | -                         | -     | 0.1                     | 0.3   | SW                      | S     | 8.0           | -     | 1.0                  | 2.0   | 28.5                  | 34.5  |
| 11      | 29.0                 | 28.0  | 31.0                 | 32.0  | 29.0                | 26.0  | 28.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | 0.0                     | 1.0   | S                       | SE    | -             | 36.0  | 1.0                  | 2.0   | 29.5                  | 29.0  |
| 12      | 28.0                 | 29.0  | 30.0                 | 32.0  | 27.0                | 31.0  | 26.0              | 29.0  | 92.0                  | 86.0   | -                         | -     | 0.0                     | 0.6   | SE                      | SE    | 0.8           | -     | 0.8                  | 2.0   | 28.0                  | 35.0  |
| 13      | 28.0                 | 28.0  | 32.0                 | 31.0  | 28.0                | 29.0  | 27.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 0.8   | SE                      | S     | 17.2          | -     | 1.2                  | 2.0   | 28.0                  | 33.0  |
| 14      | 28.0                 | 30.0  | 31.0                 | 33.0  | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 86.0   | -                         | -     | 0.2                     | 1.4   | N                       | SE    | -             | -     | 1.0                  | 2.0   | 28.5                  | 33.5  |
| 15      | 28.0                 | 29.0  | 30.0                 | 32.0  | 29.0                | 31.0  | 27.0              | 29.0  | 85.0                  | 86.0   | -                         | -     | 0.1                     | 0.8   | S                       | S     | -             | -     | 1.0                  | 1.5   | 28.5                  | 34.0  |
| 16      | 28.5                 | 29.0  | 31.0                 | 32.0  | 29.0                | 31.0  | 28.0              | 29.0  | 92.0                  | 86.0   | -                         | -     | 0.0                     | 0.2   | NW                      | NW    | -             | 2.6   | 2.0                  | 1.6   | 29.0                  | 34.5  |
| 17      | 28.0                 | 30.0  | 30.0                 | 32.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 0.3   | NE                      | E     | 15.0          | 2.4   | 1.0                  | 1.0   | 29.0                  | 32.0  |
| 18      | 28.0                 | 30.0  | 30.0                 | 32.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | 2.0   | 0.0                     | 0.4   | SE                      | SE    | -             | 0.6   | 1.6                  | 1.6   | 28.5                  | 31.5  |
| 19      | 28.0                 | 29.0  | 29.0                 | 31.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.0                     | 0.1   | NW                      | NW    | 5.6           | 20.8  | 1.6                  | 1.8   | 28.5                  | 27.5  |
| 20      | 27.0                 | 27.0  | 29.0                 | 29.0  | 27.0                | 26.0  | 26.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | 0.0                     | 1.3   | NW                      | SW    | 11.0          | 3.2   | 1.0                  | 1.2   | 26.0                  | 27.0  |
| 21      | 27.0                 | 27.0  | 28.0                 | 30.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.9                     | 0.5   | S                       | NW    | 17.8          | -     | 1.8                  | 1.0   | 25.5                  | 31.0  |
| 22      | 28.0                 | 30.0  | 29.0                 | 31.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 1.4   | S                       | NW    | 2.2           | -     | 1.2                  | 2.0   | 27.5                  | 34.5  |
| 23      | 29.0                 | 29.0  | 31.0                 | 32.0  | 27.0                | 29.0  | 26.0              | 28.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.5   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 35.0  |
| 24      | 28.0                 | 30.0  | 30.0                 | 33.0  | 28.0                | 31.0  | 27.0              | 29.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.6   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 35.0  |
| 25      | 29.0                 | 30.0  | 31.0                 | 33.0  | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.7   | NW                      | NW    | -             | -     | 1.5                  | 2.0   | 28.5                  | 35.5  |
| 26      | 29.0                 | 30.0  | 32.0                 | 33.0  | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.0                     | 0.5   | NW                      | NW    | -             | -     | 1.5                  | 1.5   | 28.0                  | 35.0  |
| 27      | 29.0                 | 29.0  | 32.0                 | 32.0  | 29.0                | 29.0  | 27.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.0                     | 0.7   | NW                      | NW    | -             | -     | 1.4                  | 1.0   | 29.0                  | 33.5  |
| 28      | 28.0                 | 29.0  | 33.0                 | 32.0  | 28.0                | 28.0  | 27.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.0                     | 1.2   | NW                      | E     | -             | -     | -                    | 1.4   | 28.5                  | 31.0  |
| 29      | 28.0                 | 29.0  | 32.0                 | 31.0  | 28.0                | 27.0  | 26.0              | 26.0  | 85.0                  | 92.0   | -                         | -     | 0.1                     | 1.0   | NW                      | E     | -             | -     | -                    | 1.4   | 28.5                  | 31.0  |
| 30      | 27.0                 |       | 30.0                 |       | 27.0                |       | 26.0              |       | 92.0                  |        | -                         |       | 0.0                     |       | E                       |       | -             |       | 1.0                  |       | 27.0                  |       |
| Total   | 846.5                | 880.0 | 919.0                | 971.0 | 846.0               | 879.0 | 812.0             | 834.0 | 2733.0                | 2663.0 | -                         | 2.0   | 2.9                     | 20.6  |                         |       | 77.8          | 94.0  | 40.7                 | 52.4  | 851.0                 | 994.0 |
| Average | 28.2                 | 29.3  | 30.6                 | 32.4  | 28.2                | 29.3  | 27.1              | 27.8  | 91.1                  | 88.8   | -                         | 0.1   | 0.1                     | 0.7   |                         |       |               |       |                      |       | 28.4                  | 33.1  |
|         | 28.8                 |       | 31.5                 |       | 28.8                |       | 27.4              |       | 89.9                  |        | 0.0                       |       | 0.4                     |       |                         |       | 171.8         |       | 93.1                 |       | 30.8                  |       |



## Twice Daily Climatic Data

Station Code : EMK00E2

Local River/Basin : Mand

Station Name : KURUBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 22.0  |                      | 32.0  |                     | 27.0  |                   | 25.0  |                       | 84.0   |                           | -     |                         | 0.5   |                         | N     |               | -     |                      | 1.5   |                       | 28.0  |
| 1       | 20.0                 | 22.0  | 30.0                 | 31.0  | 22.0                | 26.0  | 21.0              | 24.0  | 91.0                  | 84.0   | -                         | -     | 0.1                     | 0.6   | NE                      | N     | -             | -     | 2.0                  | 2.0   | 21.5                  | 28.0  |
| 2       | 21.0                 | 22.0  | 30.0                 | 31.0  | 23.0                | 26.0  | 21.0              | 23.0  | 83.0                  | 76.0   | -                         | -     | 0.1                     | 0.6   | N                       | N     | -             | -     | 1.5                  | 2.0   | 22.0                  | 28.0  |
| 3       | 19.0                 | 22.0  | 28.0                 | 30.0  | 23.0                | 26.0  | 21.0              | 23.0  | 83.0                  | 76.0   | -                         | -     | 0.2                     | 0.6   | NW                      | NE    | -             | -     | 1.5                  | 2.5   | 21.5                  | 28.0  |
| 4       | 20.0                 | 22.0  | 28.0                 | 30.0  | 22.0                | 25.0  | 20.0              | 22.0  | 82.0                  | 76.0   | -                         | -     | 0.1                     | 0.6   | NE                      | SE    | -             | -     | 1.5                  | 2.0   | 21.5                  | 27.5  |
| 5       | 20.0                 | 22.0  | 27.0                 | 31.0  | 22.0                | 26.0  | 21.0              | 23.0  | 91.0                  | 76.0   | -                         | -     | 0.1                     | 0.8   | N                       | SE    | -             | -     | 1.5                  | 2.0   | 21.0                  | 28.0  |
| 6       | 21.0                 | 23.0  | 28.0                 | 31.0  | 22.0                | 27.0  | 21.0              | 23.0  | 91.0                  | 76.0   | -                         | -     | 0.1                     | 0.0   | SE                      | NE    | -             | -     | 1.0                  | 2.0   | 22.0                  | 28.0  |
| 7       | 20.0                 | 22.0  | 28.0                 | 31.0  | 23.0                | 26.0  | 21.0              | 22.0  | 83.0                  | 69.0   | -                         | -     | 0.1                     | 0.1   | N                       | NE    | -             | -     | 1.0                  | 2.0   | 21.5                  | 28.0  |
| 8       | 20.0                 | 22.0  | 27.0                 | 30.0  | 22.0                | 26.0  | 21.0              | 23.0  | 91.0                  | 77.0   | -                         | -     | 0.0                     | 0.1   | N                       | NE    | -             | -     | 1.0                  | 1.8   | 21.5                  | 27.5  |
| 9       | 20.0                 | 22.0  | 27.0                 | 29.0  | 22.0                | 24.0  | 20.0              | 22.0  | 82.0                  | 83.0   | -                         | -     | 0.0                     | 0.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 22.0                  | 27.0  |
| 10      | 18.0                 | 20.0  | 26.0                 | 29.0  | 20.0                | 24.0  | 19.0              | 21.0  | 91.0                  | 75.0   | -                         | -     | 0.0                     | 0.2   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 19.5                  | 26.5  |
| 11      | 17.0                 | 20.0  | 25.0                 | 29.0  | 20.0                | 23.0  | 19.0              | 21.0  | 91.0                  | 83.0   | -                         | -     | 0.1                     | 0.2   | NE                      | NE    | -             | -     | 1.0                  | 1.8   | 19.0                  | 26.5  |
| 12      | 17.0                 | 20.0  | 23.0                 | 29.0  | 20.0                | 23.0  | 19.0              | 21.0  | 91.0                  | 83.0   | -                         | -     | 0.1                     | 0.1   | N                       | NE    | -             | -     | 1.0                  | 1.8   | 19.0                  | 26.5  |
| 13      | 18.0                 | 20.0  | 22.0                 | 29.0  | 21.0                | 23.0  | 19.0              | 21.0  | 82.0                  | 83.0   | -                         | -     | 0.1                     | 0.3   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 19.5                  | 26.5  |
| 14      | 19.0                 | 21.0  | 24.0                 | 30.0  | 23.0                | 24.0  | 21.0              | 22.0  | 83.0                  | 83.0   | -                         | -     | 0.1                     | 0.3   | NE                      | SE    | -             | -     | 1.0                  | 1.8   | 20.5                  | 27.0  |
| 15      | 22.0                 | 20.0  | 24.0                 | 29.0  | 24.0                | 24.0  | 22.0              | 22.0  | 83.0                  | 83.0   | -                         | -     | 0.1                     | 0.1   | NE                      | SE    | -             | -     | 1.0                  | 1.5   | 22.5                  | 27.0  |
| 16      | 22.0                 | 20.0  | 24.0                 | 30.0  | 24.0                | 24.0  | 22.0              | 23.0  | 83.0                  | 83.0   | -                         | -     | 0.2                     | 0.2   | SE                      | SE    | -             | -     | 1.5                  | 1.0   | 22.5                  | 27.0  |
| 17      | 22.0                 | 24.0  | 25.0                 | 28.0  | 24.0                | 25.0  | 23.0              | 24.0  | 91.0                  | 92.0   | -                         | -     | 0.6                     | 0.3   | SE                      | NE    | -             | -     | 1.5                  | 1.0   | 23.0                  | 26.0  |
| 18      | 21.0                 | 23.0  | 26.0                 | 30.0  | 24.0                | 26.0  | 23.0              | 25.0  | 91.0                  | 92.0   | -                         | -     | 0.1                     | 0.4   | NE                      | N     | -             | -     | 1.5                  | 1.6   | 22.5                  | 28.0  |
| 19      | 22.0                 | 22.0  | 28.0                 | 31.0  | 24.0                | 26.0  | 23.0              | 25.0  | 91.0                  | 92.0   | -                         | -     | 0.1                     | 0.1   | N                       | NE    | -             | -     | 1.5                  | 1.5   | 23.0                  | 28.0  |
| 20      | 22.0                 | 22.0  | 26.0                 | 31.0  | 24.0                | 26.0  | 22.0              | 25.0  | 83.0                  | 92.0   | -                         | -     | 0.1                     | 0.1   | NE                      | NE    | -             | -     | 1.0                  | 1.6   | 23.0                  | 28.0  |
| 21      | 20.0                 | 22.0  | 27.0                 | 30.0  | 23.0                | 25.0  | 20.0              | 23.0  | 75.0                  | 84.0   | -                         | -     | 0.1                     | 0.5   | N                       | N     | -             | -     | 1.0                  | 1.8   | 21.5                  | 27.5  |
| 22      | 20.0                 | 20.0  | 27.0                 | 30.0  | 22.0                | 25.0  | 20.0              | 23.0  | 82.0                  | 84.0   | -                         | -     | 0.0                     | 0.3   | N                       | N     | -             | -     | 1.0                  | 1.8   | 21.5                  | 27.5  |
| 23      | 19.0                 | 20.0  | 26.0                 | 28.0  | 21.0                | 23.0  | 19.0              | 21.0  | 82.0                  | 83.0   | -                         | -     | 0.1                     | 0.3   | N                       | NE    | -             | -     | 1.0                  | 1.8   | 20.0                  | 27.5  |
| 24      | 17.0                 | 19.0  | 24.0                 | 28.0  | 19.0                | 22.0  | 17.0              | 20.0  | 81.0                  | 82.0   | -                         | -     | 0.1                     | 0.1   | N                       | NE    | -             | -     | 1.0                  | 1.2   | 18.0                  | 26.0  |
| 25      | 15.0                 | 19.0  | 22.0                 | 28.0  | 18.0                | 21.0  | 16.0              | 19.0  | 80.0                  | 82.0   | -                         | -     | 0.1                     | 0.4   | NW                      | NE    | -             | -     | 1.0                  | 1.2   | 16.0                  | 24.0  |
| 26      | 15.0                 | 18.0  | 24.0                 | 28.0  | 18.0                | 23.0  | 16.0              | 20.0  | 80.0                  | 75.0   | -                         | -     | 0.0                     | 0.1   | NE                      | N     | -             | -     | 1.0                  | 1.2   | 16.5                  | 25.0  |
| 27      | 15.0                 | 17.0  | 25.0                 | 28.0  | 17.0                | 21.0  | 16.0              | 19.0  | 90.0                  | 82.0   | -                         | -     | 0.0                     | 0.3   | N                       | N     | -             | -     | 1.0                  | 1.2   | 16.5                  | 24.0  |
| 28      | 15.0                 | 16.0  | 23.0                 | 28.0  | 16.0                | 23.0  | 15.0              | 20.0  | 89.0                  | 75.0   | -                         | -     | 0.1                     | 0.1   | N                       | N     | -             | -     | 1.0                  | 1.5   | 16.0                  | 24.0  |
| 29      | 15.0                 | 17.0  | 24.0                 | 28.0  | 16.0                | 23.0  | 15.0              | 20.0  | 89.0                  | 75.0   | -                         | -     | 0.1                     | 0.1   | N                       | NW    | -             | -     | 1.0                  | 1.2   | 16.5                  | 24.5  |
| 30      | 15.0                 |       | 25.0                 |       | 18.0                |       | 16.0              |       | 80.0                  |        | -                         |       | 0.0                     |       | NNW                     |       | -             |       | 1.0                  |       | 17.0                  |       |
| Total   | 567.0                | 621.0 | 773.0                | 887.0 | 637.0               | 733.0 | 589.0             | 665.0 | 2565.0                | 2440.0 | -                         | -     | 3.0                     | 8.8   |                         |       | -             | -     | 35.0                 | 49.3  | 608.0                 | 805.0 |
| Average | 18.9                 | 20.7  | 25.8                 | 29.6  | 21.2                | 24.4  | 19.6              | 22.2  | 85.5                  | 81.3   | -                         | -     | 0.1                     | 0.3   |                         |       |               |       |                      |       | 20.3                  | 26.8  |
|         | 19.8                 |       | 27.7                 |       | 22.8                |       | 20.9              |       | 83.4                  |        | 0.0                       |       | 0.2                     |       |                         |       | 0.0           |       | 84.3                 |       | 23.6                  |       |





## Twice Daily Climatic Data

Station Code : EMK00E2

Local River/Basin : Mand

Station Name : KURUBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 15.0  |                      | 32.0  |                     | 25.0  |                   | 23.0  |                       | 84.0   |                           | -     |                         | 2.1   |                         | N     |               | -     |                      | 1.5   |                       | 25.0  |
| 1       | 12.0                 | 17.0  | 27.0                 | 33.0  | 19.0                | 27.0  | 17.0              | 24.0  | 81.0                  | 77.0   | -                         | -     | 0.3                     | 1.8   | N                       | N     | -             | -     | 1.2                  | 1.6   | 16.0                  | 25.5  |
| 2       | 12.0                 | 17.0  | 28.0                 | 34.0  | 18.0                | 27.0  | 17.0              | 26.0  | 90.0                  | 92.0   | -                         | -     | 0.1                     | 0.9   | N                       | N     | -             | -     | 1.2                  | 1.6   | 16.0                  | 26.5  |
| 3       | 14.0                 | 17.0  | 28.0                 | 34.0  | 17.0                | 27.0  | 16.0              | 25.0  | 90.0                  | 84.0   | -                         | -     | 0.2                     | 1.3   | N                       | SW    | -             | -     | 1.2                  | 1.6   | 17.0                  | 26.5  |
| 4       | 14.0                 | 17.0  | 26.0                 | 34.0  | 18.0                | 27.0  | 17.0              | 26.0  | 90.0                  | 92.0   | -                         | -     | 0.0                     | 1.4   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 17.5                  | 26.5  |
| 5       | 14.0                 | 18.0  | 26.0                 | 34.0  | 18.0                | 29.0  | 17.0              | 27.0  | 90.0                  | 85.0   | -                         | -     | 0.1                     | 0.8   | SW                      | SW    | -             | -     | 1.2                  | 1.6   | 17.5                  | 27.5  |
| 6       | 16.0                 | 19.0  | 30.0                 | 34.0  | 22.0                | 27.0  | 21.0              | 26.0  | 91.0                  | 92.0   | -                         | -     | 0.1                     | 0.7   | SW                      | NW    | -             | -     | 1.2                  | 1.6   | 18.0                  | 27.5  |
| 7       | 18.0                 | 21.0  | 28.0                 | 30.0  | 21.0                | 24.0  | 19.0              | 22.0  | 82.0                  | 83.0   | -                         | -     | 0.2                     | 0.3   | NW                      | NW    | -             | -     | 1.2                  | 1.6   | 20.5                  | 24.5  |
| 8       | 17.0                 | 20.0  | 25.0                 | 32.0  | 20.0                | 26.0  | 18.0              | 25.0  | 81.0                  | 92.0   | -                         | -     | 0.1                     | 0.7   | NW                      | SW    | -             | -     | 1.2                  | 1.6   | 20.0                  | 26.0  |
| 9       | 12.0                 | 20.0  | 20.0                 | 34.0  | 19.0                | 27.0  | 18.0              | 24.0  | 90.0                  | 77.0   | -                         | -     | 0.3                     | 1.5   | SW                      | W     | -             | -     | 1.2                  | 1.6   | 19.5                  | 27.5  |
| 10      | 18.0                 | 21.0  | 29.0                 | 31.0  | 22.0                | 26.0  | 19.0              | 23.0  | 72.0                  | 76.0   | -                         | -     | 0.2                     | 0.9   | N                       | N     | -             | -     | 1.2                  | 1.6   | 20.5                  | 26.0  |
| 11      | 12.0                 | 21.0  | 27.0                 | 31.0  | 21.0                | 27.0  | 18.0              | 24.0  | 73.0                  | 77.0   | -                         | -     | 0.3                     | 2.4   | N                       | SE    | -             | -     | 1.2                  | 1.6   | 19.0                  | 26.0  |
| 12      | 11.0                 | 21.0  | 28.0                 | 30.0  | 19.0                | 24.0  | 18.0              | 22.0  | 90.0                  | 83.0   | -                         | -     | 0.4                     | 1.4   | NW                      | NW    | 7.8           | -     | 1.0                  | 1.5   | 19.5                  | 27.0  |
| 13      | 12.0                 | 19.0  | 26.0                 | 27.0  | 18.0                | 23.0  | 17.0              | 21.0  | 90.0                  | 83.0   | -                         | 2.0   | 0.7                     | 0.6   | NE                      | NE    | -             | -     | 1.0                  | 1.5   | 20.0                  | 27.0  |
| 14      | 15.0                 | 17.0  | 24.0                 | 26.0  | 18.0                | 24.0  | 17.0              | 22.0  | 90.0                  | 83.0   | -                         | -     | 1.3                     | 1.4   | NE                      | NE    | 4.2           | -     | 1.0                  | 1.6   | 18.0                  | 27.0  |
| 15      | 16.0                 | 18.0  | 25.0                 | 26.0  | 18.0                | 24.0  | 16.0              | 22.0  | 80.0                  | 83.0   | -                         | -     | 0.0                     | 1.1   | NE                      | NW    | -             | -     | 1.0                  | 1.5   | 18.0                  | 27.0  |
| 16      | 15.0                 | 19.0  | 30.0                 | 31.0  | 19.0                | 26.0  | 18.0              | 24.0  | 90.0                  | 84.0   | -                         | -     | 0.0                     | 1.2   | NW                      | NE    | -             | -     | 1.0                  | 1.5   | 17.5                  | 27.0  |
| 17      | 15.0                 | 19.0  | 28.0                 | 30.0  | 19.0                | 26.0  | 18.0              | 24.0  | 90.0                  | 84.0   | -                         | -     | 0.2                     | 1.1   | NE                      | NE    | -             | -     | 1.2                  | 1.5   | 18.5                  | 27.0  |
| 18      | 15.0                 | 19.0  | 21.0                 | 32.0  | 19.0                | 26.0  | 18.0              | 24.0  | 90.0                  | 84.0   | -                         | -     | 0.1                     | 1.0   | N                       | N     | -             | -     | 1.2                  | 1.5   | 18.5                  | 27.5  |
| 19      | 16.0                 | 18.0  | 21.0                 | 34.0  | 18.0                | 29.0  | 16.0              | 26.0  | 83.0                  | 78.0   | -                         | -     | 0.3                     | 1.0   | N                       | N     | -             | -     | 1.2                  | 1.5   | 19.0                  | 28.0  |
| 20      | 17.0                 | 19.0  | 30.0                 | 34.0  | 21.0                | 28.0  | 19.0              | 26.0  | 82.0                  | 81.0   | -                         | -     | 0.3                     | 1.5   | N                       | N     | -             | -     | 1.4                  | 1.5   | 21.0                  | 28.0  |
| 21      | 17.0                 | 19.0  | 29.0                 | 34.0  | 21.0                | 27.0  | 19.0              | 25.0  | 82.0                  | 84.0   | -                         | -     | 0.4                     | 0.8   | N                       | N     | -             | -     | 1.2                  | 1.5   | 20.0                  | 28.0  |
| 22      | 16.0                 | 19.0  | 29.0                 | 35.0  | 20.0                | 28.0  | 18.0              | 26.0  | 81.0                  | 81.0   | -                         | -     | 0.2                     | 1.6   | N                       | N     | -             | -     | 1.2                  | 1.5   | 19.5                  | 28.0  |
| 23      | 16.0                 | 21.0  | 29.0                 | 36.0  | 21.0                | 28.0  | 20.0              | 26.0  | 91.0                  | 81.0   | -                         | -     | 0.1                     | 1.3   | N                       | N     | -             | -     | 1.2                  | 1.5   | 19.5                  | 28.0  |
| 24      | 17.0                 | 21.0  | 29.0                 | 37.0  | 22.0                | 30.0  | 20.0              | 28.0  | 81.0                  | 85.0   | -                         | -     | 0.0                     | 1.0   | N                       | SW    | -             | -     | 1.2                  | 1.5   | 20.5                  | 29.0  |
| 25      | 18.0                 | 22.0  | 32.0                 | 37.0  | 24.0                | 31.0  | 22.0              | 29.0  | 83.0                  | 86.0   | -                         | -     | 0.3                     | 1.3   | SW                      | N     | -             | -     | 1.4                  | 1.8   | 22.0                  | 30.0  |
| 26      | 19.0                 | 22.0  | 33.0                 | 36.0  | 23.0                | 31.0  | 21.0              | 28.0  | 83.0                  | 79.0   | -                         | -     | 0.0                     | 1.4   | NE                      | NW    | -             | -     | 1.2                  | 1.8   | 22.5                  | 30.0  |
| 27      | 16.0                 | 22.0  | 32.0                 | 36.0  | 22.0                | 30.0  | 21.0              | 26.0  | 91.0                  | 72.0   | -                         | -     | 0.2                     | 1.4   | NW                      | NW    | -             | -     | 1.4                  | 1.8   | 22.0                  | 30.0  |
| 28      | 17.0                 |       | 31.0                 |       | 22.0                |       | 21.0              |       | 91.0                  |        | -                         |       | 0.2                     |       | NW                      |       | -             |       | 1.4                  |       | 21.0                  |       |
| Total   | 427.0                | 538.0 | 771.0                | 914.0 | 559.0               | 754.0 | 516.0             | 694.0 | 2398.0                | 2322.0 | -                         | 2.0   | 6.8                     | 33.8  |                         |       | 12.0          | -     | 33.4                 | 44.1  | 538.5                 | 763.5 |
| Average | 15.3                 | 19.2  | 27.5                 | 32.6  | 20.0                | 26.9  | 18.4              | 24.8  | 85.6                  | 82.9   | -                         | 0.1   | 0.2                     | 1.2   |                         |       |               |       |                      |       | 19.2                  | 27.3  |
|         | 17.2                 |       | 30.1                 |       | 23.4                |       | 21.6              |       | 84.3                  |        | 0.0                       |       | 0.7                     |       |                         |       | 12.0          |       | 77.5                 |       | 23.3                  |       |







## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 31.0  |                      | 42.0   |                     | 40.0  |                   | 28.0  |                       | 38.0   |                           | 2.0   |                         | 4.5   |                         | SW    |               | -     |                      | 2.0   |                       | 36.5   |
| 1       | 28.0                 | 32.0  | 42.0                 | 44.0   | 31.0                | 37.0  | 27.0              | 28.0  | 72.5                  | 49.0   | 3.0                       | 2.0   | 2.1                     | 4.1   | SE                      | N     | 0.4           | -     | 2.4                  | 5.0   | 29.0                  | 37.5   |
| 2       | 28.0                 | 31.0  | 39.0                 | 45.0   | 33.0                | 40.0  | 27.0              | 29.0  | 61.5                  | 42.0   | 2.0                       | 1.0   | 2.9                     | 3.9   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 29.0                  | 38.5   |
| 3       | 29.0                 | 33.0  | 41.0                 | 45.0   | 33.0                | 41.0  | 27.0              | 28.0  | 61.5                  | 35.0   | 3.0                       | 2.0   | 4.1                     | 4.3   | SW                      | NW    | -             | -     | 4.0                  | 4.0   | 30.0                  | 38.0   |
| 4       | 30.0                 | 33.0  | 42.0                 | 46.0   | 32.0                | 41.0  | 27.0              | 29.0  | 67.0                  | 39.0   | 3.0                       | 2.0   | 2.6                     | 5.7   | SW                      | W     | -             | -     | 4.0                  | 4.0   | 29.5                  | 38.0   |
| 5       | 31.0                 | 35.0  | 43.0                 | 45.0   | 35.0                | 36.0  | 27.0              | 27.0  | 52.0                  | 48.0   | 2.0                       | 3.0   | 1.6                     | 6.9   | SW                      | SW    | -             | -     | 4.0                  | 4.0   | 30.0                  | 36.0   |
| 6       | 29.0                 | 25.0  | 37.0                 | 42.0   | 31.0                | 28.0  | 26.0              | 22.0  | 66.0                  | 57.0   | 2.0                       | 3.0   | 4.1                     | 4.6   | SW                      | NE    | 2.2           | 32.4  | 4.2                  | 6.4   | 28.0                  | 29.5   |
| 7       | 25.0                 | 30.0  | 31.0                 | 37.0   | 29.0                | 33.0  | 25.0              | 27.0  | 71.0                  | 61.5   | 1.0                       | 4.0   | 1.9                     | 3.0   | NE                      | SE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 34.0   |
| 8       | 26.0                 | 31.0  | 32.0                 | 38.0   | 30.0                | 30.0  | 26.0              | 26.0  | 72.0                  | 72.0   | 2.0                       | 4.0   | 1.8                     | 3.9   | SW                      | NE    | 8.4           | -     | 2.4                  | 2.0   | 28.0                  | 35.0   |
| 9       | 27.0                 | 31.0  | 32.0                 | 40.0   | 31.0                | 36.0  | 27.0              | 29.0  | 72.5                  | 58.0   | 4.0                       | 4.0   | 3.3                     | 3.7   | NE                      | SE    | -             | -     | 4.0                  | 2.0   | 28.5                  | 36.5   |
| 10      | 27.0                 | 34.0  | 34.0                 | 40.0   | 32.0                | 34.0  | 27.0              | 28.0  | 67.0                  | 62.0   | 2.0                       | 4.0   | 2.1                     | 4.2   | NE                      | NNE   | -             | -     | 4.0                  | 2.0   | 29.0                  | 35.5   |
| 11      | 29.0                 | 31.0  | 36.0                 | 37.0   | 31.0                | 27.0  | 27.0              | 25.0  | 72.5                  | 89.0   | 2.0                       | 2.0   | 1.4                     | 3.3   | SW                      | SW    | -             | 8.0   | 3.0                  | 2.0   | 30.0                  | 31.5   |
| 12      | 28.0                 | 35.0  | 30.0                 | 38.0   | 29.0                | 30.0  | 26.0              | 24.0  | 78.0                  | 59.0   | 1.0                       | 2.0   | 1.6                     | 5.8   | W                       | SW    | -             | 1.2   | 2.0                  | 1.2   | 28.0                  | 30.5   |
| 13      | 26.0                 | 30.0  | 30.0                 | 36.0   | 29.0                | 31.0  | 26.0              | 28.0  | 78.0                  | 78.5   | 2.0                       | 1.0   | 2.0                     | 5.3   | SW                      | SW    | 2.8           | -     | 2.8                  | 2.0   | 28.0                  | 31.0   |
| 14      | 24.0                 | 29.0  | 32.0                 | 37.0   | 27.0                | 34.0  | 26.0              | 28.0  | 92.0                  | 62.0   | 1.0                       | 2.0   | 1.6                     | 3.6   | SW                      | SE    | 28.2          | -     | 2.2                  | 2.0   | 27.0                  | 32.0   |
| 15      | 28.0                 | 30.0  | 32.0                 | 42.0   | 32.0                | 29.0  | 28.0              | 25.0  | 73.0                  | 71.0   | 1.0                       | 3.0   | 1.1                     | 4.1   | SW                      | NE    | -             | -     | 2.0                  | 4.0   | 30.0                  | 34.0   |
| 16      | 25.0                 | 28.0  | 31.0                 | 37.0   | 28.0                | 33.0  | 26.0              | 28.0  | 85.0                  | 67.5   | 2.0                       | 2.0   | 4.2                     | 4.8   | SW                      | SW    | 11.0          | -     | 7.0                  | 2.0   | 27.0                  | 35.0   |
| 17      | 28.0                 | 31.0  | 34.0                 | 38.0   | 31.0                | 33.0  | 27.0              | 28.0  | 72.5                  | 67.5   | 3.0                       | 1.0   | 1.6                     | 6.8   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 29.5                  | 31.5   |
| 18      | 28.0                 | 31.0  | 34.0                 | 41.0   | 30.0                | 36.0  | 27.0              | 29.0  | 78.0                  | 58.0   | 1.0                       | 1.0   | 1.3                     | 3.0   | NE                      | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 34.0   |
| 19      | 27.0                 | 28.0  | 35.0                 | 39.0   | 26.0                | 34.0  | 25.0              | 28.0  | 92.0                  | 62.0   | 2.0                       | 4.0   | 2.3                     | 4.1   | SW                      | SW    | 1.4           | -     | 1.4                  | 3.0   | 28.0                  | 35.0   |
| 20      | 26.0                 | 29.0  | 38.0                 | 42.0   | 28.0                | 35.0  | 25.0              | 29.0  | 77.0                  | 62.5   | 1.0                       | 1.0   | 2.9                     | 3.2   | SW                      | SW    | 0.6           | -     | 2.6                  | 2.0   | 28.0                  | 37.0   |
| 21      | 25.0                 | 28.0  | 37.0                 | 36.0   | 27.0                | 26.0  | 25.0              | 24.0  | 84.0                  | 84.0   | 2.0                       | 8.0   | 3.8                     | 4.2   | SW                      | SW    | 46.2          | -     | 2.2                  | 3.0   | 26.5                  | 34.5   |
| 22      | 25.0                 | 26.0  | 36.0                 | 32.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 2.1                     | 3.4   | SW                      | SE    | 30.2          | -     | 4.2                  | 1.0   | 26.0                  | 31.0   |
| 23      | 25.0                 | 26.0  | 31.0                 | 35.0   | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | 1.0                       | 1.0   | 2.0                     | 3.7   | SW                      | NW    | 22.4          | 0.6   | 2.4                  | 2.6   | 25.5                  | 30.0   |
| 24      | 26.0                 | 25.0  | 30.0                 | 35.0   | 27.0                | 24.0  | 25.0              | 23.0  | 84.0                  | 91.0   | 1.0                       | 1.0   | 1.5                     | 3.1   | SE                      | SW    | -             | 15.8  | 3.0                  | 1.8   | 27.0                  | 31.0   |
| 25      | 25.0                 | 26.0  | 28.0                 | 34.0   | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | 1.0                       | 1.0   | 0.8                     | 1.5   | SE                      | SW    | 1.8           | 24.4  | 1.8                  | 2.4   | 26.0                  | 31.0   |
| 26      | 26.0                 | 29.0  | 32.0                 | 32.0   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 3.0                       | 4.0   | 4.9                     | 7.5   | NE                      | NW    | 3.4           | 4.2   | 3.4                  | 6.2   | 28.0                  | 33.0   |
| 27      | 27.0                 | 26.0  | 32.0                 | 33.0   | 28.0                | 26.0  | 27.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | 1.0   | 1.1                     | 2.3   | W                       | SW    | 21.6          | 38.2  | 1.4                  | 4.2   | 28.0                  | 29.0   |
| 28      | 26.0                 | 27.0  | 27.0                 | 31.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 1.0                       | 4.0   | 1.1                     | 2.9   | SW                      | SW    | 11.2          | 3.0   | 3.2                  | 1.0   | 27.5                  | 29.0   |
| 29      | 26.0                 | 28.0  | 28.0                 | 32.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 1.0                       | 3.0   | 4.1                     | 2.7   | SW                      | S     | 7.0           | -     | 1.0                  | 1.0   | 27.0                  | 32.0   |
| 30      | 27.0                 |       | 30.0                 |        | 27.0                |       | 26.0              |       | 92.0                  |        | 2.0                       |       | 3.3                     |       | SW                      |       | -             |       | 1.0                  |       | 28.0                  |        |
| Total   | 807.0                | 889.0 | 1016.0               | 1151.0 | 876.0               | 964.0 | 783.0             | 803.0 | 2350.0                | 2015.5 | 56.0                      | 75.0  | 70.8                    | 124.0 |                         |       | 198.8         | 127.8 | 84.6                 | 86.8  | 842.0                 | 1007.0 |
| Average | 26.9                 | 29.6  | 33.9                 | 38.4   | 29.2                | 32.1  | 26.1              | 26.8  | 78.3                  | 67.2   | 1.9                       | 2.5   | 2.4                     | 4.1   |                         |       |               |       |                      |       | 28.1                  | 33.6   |
|         | 28.3                 |       | 36.1                 |        | 30.7                |       | 26.4              |       | 72.8                  |        | 2.2                       |       | 3.2                     |       |                         |       | 326.6         |       | 171.4                |       | 30.8                  |        |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Jul-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 26.0  |                      | 31.0  |                     | 27.0  |                   | 26.0  |                       | 92.0   |                           | 1.0   |                         | 2.2   |                         | SE    |               | 33.0  |                      | 3.0   |                       | 28.5  |
| 1       | 26.0                 | 27.0  | 27.0                 | 33.0  | 26.0                | 26.0  | 25.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 1.3                     | 3.4   | SW                      | NE    | -             | 1.2   | 2.0                  | 2.2   | 27.0                  | 30.0  |
| 2       | 26.0                 | 27.0  | 27.0                 | 32.0  | 27.0                | 27.0  | 25.0              | 25.0  | 84.0                  | 84.0   | 2.0                       | 3.0   | 0.7                     | 4.3   | SW                      | SW    | 0.4           | 0.4   | 1.4                  | 1.4   | 27.0                  | 29.5  |
| 3       | 27.0                 | 28.0  | 28.0                 | 31.0  | 25.0                | 27.0  | 24.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 1.9                     | 4.0   | SW                      | NE    | -             | 11.8  | 1.0                  | 1.8   | 26.5                  | 28.0  |
| 4       | 25.0                 | 26.0  | 28.0                 | 32.0  | 25.0                | 28.0  | 24.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 2.1                     | 3.4   | SW                      | SW    | 16.2          | 3.0   | 0.2                  | 1.0   | 25.5                  | 30.0  |
| 5       | 26.0                 | 27.0  | 29.0                 | 32.0  | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | 2.0                       | 2.0   | 2.7                     | 3.2   | SW                      | SW    | -             | -     | 2.0                  | 1.0   | 28.0                  | 32.0  |
| 6       | 26.0                 | 27.0  | 30.0                 | 33.0  | 27.0                | 27.0  | 25.0              | 25.0  | 84.0                  | 84.0   | 2.0                       | 2.0   | 2.4                     | 2.4   | SW                      | NW    | -             | 2.8   | 1.0                  | 0.8   | 27.0                  | 31.0  |
| 7       | 27.0                 | 25.0  | 28.0                 | 34.0  | 27.0                | 25.0  | 26.0              | 24.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 1.3                     | 2.8   | S                       | SE    | -             | 12.2  | 1.0                  | 1.2   | 27.0                  | 29.5  |
| 8       | 26.0                 | 26.0  | 27.0                 | 33.0  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 8.0   | 1.0                     | 2.6   | SE                      | NE    | 11.8          | 1.6   | 1.8                  | 2.6   | 26.5                  | 31.0  |
| 9       | 24.0                 | 26.0  | 28.0                 | 32.0  | 25.0                | 30.0  | 24.5              | 27.0  | 96.0                  | 78.0   | 2.0                       | 4.0   | 0.4                     | 7.6   | S                       | SW    | 78.4          | -     | 0.4                  | 2.0   | 26.0                  | 32.0  |
| 10      | 26.0                 | 27.0  | 29.0                 | 29.0  | 26.0                | 26.0  | 24.0              | 24.0  | 84.0                  | 84.0   | 2.0                       | 2.0   | 2.3                     | 3.5   | SW                      | SW    | 20.0          | -     | 2.0                  | 4.0   | 27.0                  | 29.0  |
| 11      | 26.0                 | 27.0  | 28.0                 | 30.0  | 25.0                | 27.0  | 24.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 1.6                     | 3.0   | SW                      | W     | -             | -     | 3.0                  | 2.0   | 26.0                  | 31.0  |
| 12      | 26.0                 | 27.0  | 30.0                 | 32.0  | 27.0                | 31.0  | 25.0              | 27.0  | 84.0                  | 72.5   | 2.0                       | 2.0   | 1.5                     | 3.2   | W                       | SW    | -             | -     | 1.0                  | 1.0   | 27.0                  | 32.0  |
| 13      | 27.0                 | 28.0  | 32.0                 | 34.0  | 27.0                | 26.0  | 25.0              | 24.0  | 84.0                  | 84.0   | 2.0                       | 4.0   | 2.3                     | 3.2   | SW                      | NW    | -             | -     | 2.0                  | 2.0   | 27.5                  | 34.0  |
| 14      | 25.0                 | 27.0  | 28.0                 | 34.0  | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 1.8                     | 3.1   | SW                      | SW    | 56.8          | -     | 2.8                  | 2.0   | 27.0                  | 34.0  |
| 15      | 27.0                 | 28.0  | 29.0                 | 35.0  | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 1.8                     | 2.4   | SE                      | S     | -             | -     | 2.0                  | 2.0   | 27.5                  | 35.0  |
| 16      | 26.0                 | 29.0  | 32.0                 | 33.0  | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 3.0                       | 2.0   | 1.7                     | 3.7   | NE                      | N     | 44.4          | -     | 2.4                  | 2.0   | 28.0                  | 34.0  |
| 17      | 27.0                 | 30.0  | 33.0                 | 34.0  | 29.0                | 31.0  | 27.0              | 28.0  | 85.0                  | 73.0   | 3.0                       | 2.0   | 2.4                     | 9.2   | NE                      | E     | 35.0          | -     | 3.0                  | 2.0   | 27.5                  | 33.5  |
| 18      | 26.0                 | 31.0  | 32.0                 | 33.0  | 29.0                | 30.0  | 26.0              | 27.0  | 78.0                  | 85.0   | 4.0                       | 2.0   | 4.9                     | 3.5   | E                       | NE    | -             | -     | 4.0                  | 2.0   | 27.0                  | 32.0  |
| 19      | 26.0                 | 28.0  | 32.0                 | 33.0  | 28.0                | 29.0  | 25.0              | 27.0  | 77.0                  | 85.0   | 4.0                       | 2.0   | 5.9                     | 3.4   | NE                      | W     | -             | 1.0   | 2.0                  | 2.0   | 26.5                  | 32.0  |
| 20      | 26.0                 | 27.0  | 30.0                 | 29.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 2.0                     | 3.5   | SW                      | SW    | 18.0          | 0.8   | 4.0                  | 1.8   | 29.0                  | 30.0  |
| 21      | 27.0                 | 28.0  | 29.0                 | 33.0  | 26.0                | 29.0  | 25.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 1.4                     | 4.0   | S                       | SW    | 1.6           | -     | 1.6                  | 1.0   | 28.0                  | 32.0  |
| 22      | 26.0                 | 27.0  | 29.0                 | 30.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.7                     | 2.0   | SW                      | SW    | 11.6          | 17.2  | 1.6                  | 1.2   | 27.5                  | 30.0  |
| 23      | 26.0                 | 27.0  | 28.0                 | 29.0  | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 1.5                     | 2.8   | SW                      | SW    | 34.0          | 12.4  | 2.0                  | 0.4   | 26.0                  | 28.0  |
| 24      | 25.0                 | 25.0  | 27.0                 | 28.0  | 24.0                | 25.0  | 23.0              | 24.0  | 91.0                  | 92.0   | 2.0                       | 2.0   | 3.6                     | 2.6   | SW                      | SW    | 29.6          | 19.6  | 1.6                  | 1.6   | 26.0                  | 27.0  |
| 25      | 24.0                 | 25.0  | 25.0                 | 26.0  | 24.0                | 25.0  | 23.0              | 24.0  | 91.0                  | 92.0   | 2.0                       | 2.0   | 1.0                     | 2.7   | W                       | SW    | 13.0          | 1.8   | 3.0                  | 0.8   | 25.0                  | 27.0  |
| 26      | 25.0                 | 24.0  | 26.0                 | 26.0  | 24.0                | 24.0  | 23.0              | 23.0  | 91.0                  | 91.0   | 2.0                       | 4.0   | 2.0                     | 5.2   | NE                      | SW    | 3.4           | 13.6  | 1.2                  | 3.6   | 25.0                  | 26.0  |
| 27      | 24.0                 | 25.0  | 25.0                 | 28.0  | 24.0                | 27.0  | 23.0              | 25.0  | 91.0                  | 84.0   | 6.0                       | 2.0   | 5.2                     | 3.6   | NW                      | NE    | 5.8           | -     | 1.8                  | 2.0   | 24.0                  | 28.0  |
| 28      | 25.0                 | 26.0  | 27.0                 | 31.0  | 25.0                | 29.0  | 24.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 0.3                     | 2.3   | S                       | SE    | 5.6           | 0.4   | 2.6                  | 1.4   | 26.0                  | 38.0  |
| 29      | 26.0                 | 29.0  | 30.0                 | 35.0  | 28.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | 2.0   | 0.8                     | 3.4   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 28.0                  | 34.0  |
| 30      | 26.0                 | 29.0  | 31.0                 | 32.0  | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.9                     | 1.8   | SE                      | NE    | -             | 1.2   | 1.0                  | 3.2   | 27.5                  | 29.0  |
| 31      | 26.0                 |       | 31.0                 |       | 25.0                |       | 24.0              |       | 92.0                  |        | 2.0                       |       | 0.5                     |       | SW                      |       | 3.0           |       | 1.0                  |       | 26.0                  |       |
| Total   | 801.0                | 839.0 | 895.0                | 977.0 | 812.0               | 864.0 | 768.5             | 799.0 | 2754.0                | 2611.5 | 72.0                      | 74.0  | 59.8                    | 107.9 |                         |       | 388.6         | 134.0 | 58.4                 | 58.0  | 829.5                 | 957.0 |
| Average | 25.8                 | 27.1  | 28.9                 | 31.5  | 26.2                | 27.9  | 24.8              | 25.8  | 88.8                  | 84.2   | 2.3                       | 2.4   | 1.9                     | 3.5   |                         |       |               |       |                      |       | 26.8                  | 30.9  |
|         | 26.5                 |       | 30.2                 |       | 27.0                |       | 25.3              |       | 86.5                  |        | 2.4                       |       | 2.7                     |       |                         |       | 522.6         |       | 116.4                |       | 28.8                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Aug-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 32.0   |                     | 27.0  |                   | 25.0  |                       | 84.0   |                           | 2.0   |                         | 1.6   |                         | SW    |               | 2.4   |                      | 2.4   |                       | 31.0  |
| 1       | 27.0                 | 29.0  | 29.0                 | 34.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 0.8                     | 2.2   | S                       | SE    | -             | 3.0   | 2.0                  | 1.0   | 27.0                  | 32.0  |
| 2       | 26.0                 | 28.0  | 28.0                 | 32.0   | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | 2.0                       | 2.0   | 1.0                     | 2.7   | S                       | NW    | -             | 9.0   | 2.0                  | 1.0   | 28.0                  | 32.0  |
| 3       | 27.0                 | 29.0  | 30.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 1.1                     | 2.6   | SW                      | SE    | -             | -     | 1.0                  | 2.0   | 28.0                  | 33.0  |
| 4       | 26.0                 | 28.0  | 31.0                 | 32.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 4.0   | 1.4                     | 2.5   | SE                      | NW    | 4.0           | 6.0   | 2.0                  | 1.0   | 27.0                  | 32.0  |
| 5       | 26.0                 | 28.0  | 30.0                 | 32.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 1.0                     | 2.4   | SW                      | SW    | 32.0          | 55.0  | 2.0                  | 1.0   | 27.5                  | 28.0  |
| 6       | 27.0                 | 28.0  | 31.0                 | 32.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.7                     | 3.0   | SE                      | SW    | 23.0          | -     | 3.0                  | 1.0   | 27.0                  | 32.5  |
| 7       | 25.0                 | 27.0  | 30.0                 | 33.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 1.1                     | 2.8   | S                       | SE    | 24.8          | -     | 2.8                  | 2.0   | 27.0                  | 34.0  |
| 8       | 27.0                 | 28.0  | 31.0                 | 32.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 1.3                     | 1.6   | E                       | NE    | 43.2          | 1.4   | 3.2                  | 2.4   | 27.5                  | 32.0  |
| 9       | 26.0                 | 29.0  | 30.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 0.8                     | 3.3   | SW                      | SW    | 0.8           | -     | 1.8                  | 2.0   | 27.0                  | 33.0  |
| 10      | 26.0                 | 27.0  | 32.0                 | 30.0   | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 3.0                     | 3.0   | SW                      | W     | 2.2           | 0.6   | 2.2                  | 1.6   | 26.5                  | 29.5  |
| 11      | 27.0                 | 28.0  | 29.0                 | 33.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | 4.0                       | 2.0   | 1.4                     | 4.0   | W                       | SW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 33.0  |
| 12      | 26.0                 | 27.0  | 31.0                 | 32.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.8                     | 2.2   | NW                      | SW    | 2.2           | -     | 1.2                  | 2.0   | 28.5                  | 32.5  |
| 13      | 26.0                 | 27.0  | 29.0                 | 32.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 1.9                     | 3.0   | SW                      | SW    | -             | 6.2   | 2.0                  | 2.2   | 27.5                  | 31.0  |
| 14      | 26.0                 | 28.0  | 28.0                 | 31.0   | 26.0                | 26.0  | 25.0              | 24.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 1.3                     | 2.6   | W                       | NW    | 0.4           | -     | 2.4                  | 2.0   | 27.0                  | 30.0  |
| 15      | 27.0                 | 28.0  | 28.0                 | 32.0   | 27.0                | 25.0  | 25.0              | 24.0  | 84.0                  | 92.0   | 2.0                       | 2.0   | 0.9                     | 2.2   | SE                      | W     | 4.8           | 3.2   | 1.8                  | 1.2   | 26.5                  | 29.5  |
| 16      | 27.0                 | 28.0  | 28.0                 | 31.0   | 27.0                | 28.0  | 26.0              | 27.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 0.5                     | 2.7   | SW                      | SW    | 0.2           | 1.4   | 2.2                  | 1.4   | 27.5                  | 31.0  |
| 17      | 25.0                 | 27.0  | 30.0                 | 30.0   | 25.0                | 27.0  | 24.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 1.3                     | 1.5   | NE                      | W     | 53.0          | 2.0   | 1.0                  | 2.0   | 26.0                  | 30.0  |
| 18      | 27.0                 | 28.0  | 29.0                 | 32.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 2.0                       | 4.0   | 0.5                     | 6.5   | NW                      | NE    | 11.6          | -     | 1.6                  | 2.0   | 26.5                  | 31.0  |
| 19      | 26.0                 | 29.0  | 30.0                 | 32.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | 4.0                       | 6.0   | 5.5                     | 8.4   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 27.0                  | 31.0  |
| 20      | 26.0                 | 29.0  | 29.0                 | 32.0   | 29.0                | 29.0  | 26.0              | 27.0  | 78.0                  | 86.0   | 8.0                       | 2.0   | 6.5                     | 3.2   | NE                      | NE    | -             | 0.6   | 2.0                  | 2.6   | 27.5                  | 31.0  |
| 21      | 26.0                 | 29.0  | 31.0                 | 34.0   | 28.0                | 32.0  | 25.0              | 28.0  | 77.0                  | 73.0   | 2.0                       | 2.0   | 2.0                     | 2.2   | SE                      | SW    | -             | -     | 2.0                  | 3.0   | 27.5                  | 33.0  |
| 22      | 27.0                 | 30.0  | 33.0                 | 35.0   | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 0.4                     | 2.3   | SE                      | SW    | -             | -     | 2.0                  | 2.0   | 28.5                  | 35.0  |
| 23      | 26.0                 | 29.0  | 32.0                 | 34.0   | 29.0                | 27.0  | 27.0              | 25.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 0.4                     | 3.6   | NE                      | NE    | 10.4          | -     | 0.4                  | 2.0   | 28.0                  | 32.0  |
| 24      | 27.0                 | 30.0  | 29.0                 | 35.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 0.5                     | 3.2   | NE                      | SE    | 2.2           | 0.2   | 1.0                  | 2.2   | 27.5                  | 33.0  |
| 25      | 27.0                 | 29.0  | 32.0                 | 35.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 2.0                       | 2.0   | 1.0                     | 1.5   | SE                      | NW    | 2.4           | -     | 1.4                  | 2.0   | 28.0                  | 33.5  |
| 26      | 27.0                 | 29.0  | 31.0                 | 35.0   | 28.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | 2.0   | 0.7                     | 2.8   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 37.0  |
| 27      | 27.0                 | 28.0  | 32.0                 | 34.0   | 29.0                | 27.0  | 27.0              | 25.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 0.7                     | 3.6   | NE                      | E     | 11.2          | 1.2   | 2.0                  | 3.2   | 29.0                  | 35.0  |
| 28      | 26.0                 | 27.0  | 29.0                 | 32.0   | 26.0                | 28.0  | 24.0              | 25.0  | 84.0                  | 77.0   | 2.0                       | 4.0   | 2.7                     | 5.3   | NE                      | E     | -             | 9.2   | 2.0                  | 1.2   | 27.0                  | 31.0  |
| 29      | 27.0                 | 30.0  | 30.0                 | 32.0   | 29.0                | 29.0  | 26.0              | 26.0  | 78.0                  | 78.0   | 2.0                       | 2.0   | 2.4                     | 3.4   | SE                      | SE    | 1.4           | -     | 1.4                  | 2.0   | 28.0                  | 32.0  |
| 30      | 26.0                 | 30.0  | 30.0                 | 35.0   | 29.0                | 32.0  | 26.0              | 28.0  | 78.0                  | 73.0   | 2.0                       | 2.0   | 1.0                     | 2.0   | SE                      | S     | -             | -     | 2.0                  | 2.0   | 28.0                  | 34.0  |
| 31      | 27.0                 |       | 32.0                 |        | 28.0                |       | 26.0              |       | 85.0                  |        | 2.0                       |       | 0.2                     |       | SE                      |       | 3.2           |       | 1.2                  |       | 29.0                  |       |
| Total   | 819.0                | 878.0 | 934.0                | 1015.0 | 851.0               | 887.0 | 794.0             | 811.0 | 2663.0                | 2534.0 | 72.0                      | 72.0  | 44.9                    | 93.8  |                         |       | 233.0         | 101.4 | 56.6                 | 58.4  | 852.0                 | 994.5 |
| Average | 26.4                 | 28.3  | 30.1                 | 32.7   | 27.5                | 28.6  | 25.6              | 26.2  | 85.9                  | 81.7   | 2.3                       | 2.3   | 1.4                     | 3.0   |                         |       |               |       |                      |       | 27.5                  | 32.1  |
|         | 27.4                 |       | 31.4                 |        | 28.0                |       | 25.9              |       | 83.8                  |        | 2.3                       |       | 2.2                     |       |                         |       | 334.4         |       | 115.0                |       | 29.8                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Sep-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 29.0  |                      | 32.0   |                     | 28.0  |                   | 26.0  |                       | 85.0   |                           | 2.0   |                         | 1.9   |                         | SW    |               | 0.4   |                      | 2.4   |                       | 31.0  |
| 1       | 27.0                 | 28.0  | 31.0                 | 33.0   | 30.0                | 27.0  | 27.0              | 24.0  | 92.0                  | 77.0   | 2.0                       | 2.0   | 0.3                     | 1.6   | SW                      | S     | -             | 8.6   | 2.0                  | 0.6   | 28.5                  | 30.0  |
| 2       | 25.0                 | 26.0  | 29.0                 | 32.0   | 28.0                | 25.0  | 26.0              | 24.0  | 85.0                  | 92.0   | 2.0                       | 2.0   | 0.3                     | 2.5   | S                       | SW    | 1.0           | 14.8  | 1.0                  | 0.8   | 27.0                  | 29.0  |
| 3       | 25.0                 | 27.0  | 27.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | 2.0                       | 2.0   | 0.8                     | 1.8   | S                       | SW    | -             | 2.4   | 1.0                  | 0.4   | 26.5                  | 35.0  |
| 4       | 26.0                 | 28.0  | 32.0                 | 35.0   | 26.0                | 30.0  | 25.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 0.1                     | 1.6   | W                       | SW    | -             | -     | 1.0                  | 2.0   | 27.5                  | 34.0  |
| 5       | 26.0                 | 29.0  | 32.0                 | 37.0   | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | 2.0   | 0.2                     | 1.3   | SW                      | NE    | -             | -     | 3.0                  | 2.0   | 28.0                  | 34.0  |
| 6       | 25.0                 | 30.0  | 33.0                 | 36.0   | 28.0                | 32.0  | 26.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | 2.0   | 0.9                     | 1.5   | NE                      | NW    | 11.6          | -     | 1.6                  | 2.0   | 28.0                  | 35.0  |
| 7       | 25.0                 | 30.0  | 34.0                 | 36.0   | 29.0                | 32.0  | 26.0              | 28.0  | 78.0                  | 73.0   | 2.0                       | 2.0   | 0.4                     | 1.3   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 35.0  |
| 8       | 27.0                 | 29.0  | 33.0                 | 35.0   | 30.0                | 32.0  | 27.0              | 27.0  | 78.0                  | 67.0   | 2.0                       | 2.0   | 0.7                     | 1.9   | NE                      | SW    | 0.4           | 0.2   | 2.4                  | 2.2   | 29.0                  | 34.0  |
| 9       | 27.0                 | 28.0  | 32.0                 | 35.0   | 28.0                | 26.0  | 26.0              | 24.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 0.8                     | 2.1   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.5                  | 33.0  |
| 10      | 25.0                 | 27.0  | 28.0                 | 34.0   | 26.0                | 30.0  | 25.0              | 26.0  | 92.0                  | 72.0   | 2.0                       | 2.0   | 0.6                     | 1.8   | SW                      | SE    | 1.6           | -     | 0.6                  | 2.0   | 27.0                  | 34.0  |
| 11      | 26.0                 | 28.0  | 33.0                 | 34.0   | 28.0                | 26.0  | 26.0              | 24.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 0.6                     | 2.2   | SW                      | NE    | -             | -     | 2.0                  | 2.0   | 27.5                  | 32.0  |
| 12      | 27.0                 | 28.0  | 30.0                 | 35.0   | 29.0                | 25.0  | 27.0              | 24.0  | 85.0                  | 92.0   | 2.0                       | 2.0   | 0.4                     | 1.8   | SE                      | SW    | -             | 3.2   | 2.0                  | 1.2   | 28.0                  | 32.0  |
| 13      | 26.0                 | 28.0  | 29.0                 | 34.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 0.4                     | 2.5   | S                       | SW    | -             | -     | 2.0                  | 2.0   | 27.5                  | 34.0  |
| 14      | 27.0                 | 31.0  | 31.0                 | 35.0   | 27.0                | 32.0  | 25.0              | 28.0  | 85.0                  | 73.0   | 2.0                       | 2.0   | 0.2                     | 2.2   | SW                      | W     | -             | -     | 2.0                  | 2.0   | 28.5                  | 35.0  |
| 15      | 26.0                 | 27.0  | 32.0                 | 35.0   | 28.0                | 26.0  | 26.0              | 25.0  | 85.0                  | 92.0   | 2.0                       | 2.0   | 0.1                     | 1.6   | SW                      | W     | -             | 11.6  | 2.0                  | 1.6   | 27.5                  | 33.0  |
| 16      | 26.0                 | 30.0  | 30.0                 | 37.0   | 30.0                | 32.0  | 27.0              | 29.0  | 78.0                  | 79.0   | 2.0                       | 2.0   | 0.4                     | 1.9   | NE                      | E     | 1.0           | -     | 2.0                  | 2.0   | 28.5                  | 35.0  |
| 17      | 27.0                 | 30.0  | 34.0                 | 36.0   | 30.0                | 30.0  | 28.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 4.0   | 0.8                     | 1.5   | N                       | S     | -             | -     | 2.0                  | 2.0   | 30.0                  | 34.0  |
| 18      | 26.0                 | 26.0  | 32.0                 | 29.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.1                     | 1.2   | SW                      | S     | 8.0           | 27.4  | 1.0                  | 1.4   | 28.0                  | 29.0  |
| 19      | 25.0                 | 26.0  | 28.0                 | 28.0   | 24.0                | 25.0  | 23.0              | 24.0  | 91.0                  | 92.0   | 2.0                       | 2.0   | 0.3                     | 0.6   | SW                      | W     | 50.6          | 51.4  | 2.6                  | 1.4   | 25.5                  | 27.0  |
| 20      | 25.0                 | 26.0  | 26.0                 | 28.0   | 24.0                | 25.0  | 23.0              | 24.0  | 91.0                  | 92.0   | 2.0                       | 2.0   | 0.8                     | 2.2   | SW                      | SW    | 29.8          | 4.2   | 2.8                  | 1.2   | 25.0                  | 29.0  |
| 21      | 25.0                 | 27.0  | 26.0                 | 32.0   | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 1.4                     | 3.5   | S                       | SW    | 5.0           | -     | 1.0                  | 2.0   | 26.0                  | 32.0  |
| 22      | 26.0                 | 29.0  | 30.0                 | 35.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 0.3                     | 3.9   | SE                      | SW    | -             | -     | 1.0                  | 2.0   | 27.5                  | 33.0  |
| 23      | 26.0                 | 30.0  | 32.0                 | 37.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 0.1                     | 1.0   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 34.0  |
| 24      | 28.0                 | 29.0  | 34.0                 | 37.0   | 29.0                | 32.0  | 26.0              | 29.0  | 78.0                  | 79.0   | 2.0                       | 2.0   | 0.1                     | 1.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 32.0  |
| 25      | 26.0                 | 31.0  | 35.0                 | 37.0   | 30.0                | 31.0  | 27.0              | 27.0  | 78.0                  | 72.5   | 2.0                       | 2.0   | 0.1                     | 1.8   | E                       | NW    | -             | -     | 2.0                  | 4.0   | 28.5                  | 36.0  |
| 26      | 25.0                 | 31.0  | 34.0                 | 37.0   | 29.0                | 32.0  | 26.0              | 28.0  | 78.0                  | 73.0   | 2.0                       | 2.0   | 0.1                     | 1.1   | N                       | W     | -             | -     | 1.0                  | 5.0   | 28.0                  | 35.0  |
| 27      | 26.0                 | 30.0  | 35.0                 | 36.0   | 30.0                | 28.0  | 28.0              | 25.0  | 85.0                  | 77.0   | 2.0                       | 2.0   | 0.2                     | 0.8   | NE                      | N     | -             | -     | 2.0                  | 2.0   | 29.5                  | 33.0  |
| 28      | 26.0                 | 29.0  | 32.0                 | 37.0   | 30.0                | 27.0  | 28.0              | 25.0  | 85.0                  | 84.0   | 2.0                       | 2.0   | 0.9                     | 1.7   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 33.0  |
| 29      | 25.0                 | 27.0  | 34.0                 | 35.0   | 26.0                | 26.0  | 25.0              | 24.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 0.4                     | 1.6   | N                       | NE    | 14.0          | 0.2   | 2.0                  | 2.0   | 26.5                  | 32.0  |
| 30      | 25.0                 |       | 29.0                 |        | 28.0                |       | 26.0              |       | 85.0                  |        | 2.0                       |       | 2.2                     |       | NE                      |       | 2.8           |       | 0.8                  |       | 27.0                  |       |
| Total   | 777.0                | 854.0 | 937.0                | 1033.0 | 841.0               | 865.0 | 781.0             | 785.0 | 2561.0                | 2421.5 | 60.0                      | 62.0  | 14.8                    | 53.6  |                         |       | 125.8         | 124.4 | 52.8                 | 58.2  | 832.0                 | 984.0 |
| Average | 25.9                 | 28.5  | 31.2                 | 34.4   | 28.0                | 28.8  | 26.0              | 26.2  | 85.4                  | 80.7   | 2.0                       | 2.1   | 0.5                     | 1.8   |                         |       |               |       |                      |       | 27.7                  | 32.8  |
|         | 27.2                 |       | 32.8                 |        | 28.4                |       | 26.1              |       | 83.0                  |        | 2.0                       |       | 1.1                     |       |                         |       | 250.2         |       | 111.0                |       | 30.3                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM   |                      | 27.0  |                      | 33.0   |                     | 26.0  |                   | 25.0  |                       | 92.0   |                           | 2.0   |                         | 1.0   |                         | NE    |               | ..    |                      | 2.8   |                       | 31.0  |
| 1       | 26.0                 | 27.0  | 31.0                 | 33.0   | 27.0                | 26.0  | 25.0              | 24.0  | 84.0                  | 84.0   | 2.0                       | 2.0   | 0.6                     | 1.4   | NE                      | NE    | 0.2           | 0.6   | 2.2                  | 1.0   | 27.0                  | 32.0  |
| 2       | 26.0                 | 27.0  | 28.0                 | 35.0   | 29.0                | 27.0  | 26.0              | 24.0  | 78.0                  | 77.0   | 2.0                       | 2.0   | 0.2                     | 1.8   | NE                      | SW    | 1.2           | -     | 3.2                  | 2.0   | 27.0                  | 32.0  |
| 3       | 26.0                 | 29.0  | 29.0                 | 35.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 0.1                     | 0.9   | SE                      | S     | 0.8           | -     | 2.8                  | 2.0   | 27.5                  | 34.0  |
| 4       | 27.0                 | 30.0  | 33.0                 | 35.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | 2.0                       | 2.0   | 0.8                     | 2.4   | NE                      | SE    | 1.8           | 2.0   | 0.8                  | 2.0   | 27.0                  | 33.0  |
| 5       | 26.0                 | 30.0  | 31.0                 | 36.0   | 30.0                | 28.0  | 27.0              | 25.0  | 78.0                  | 77.0   | 2.0                       | 2.0   | 0.8                     | 3.4   | NE                      | NE    | 2.8           | 1.8   | 1.8                  | 2.0   | 28.0                  | 34.0  |
| 6       | 27.0                 | 28.0  | 30.0                 | 35.0   | 28.0                | 27.0  | 25.0              | 24.0  | 77.0                  | 77.0   | 2.0                       | 2.0   | 0.7                     | 2.9   | NE                      | E     | -             | -     | 2.0                  | 2.0   | 27.0                  | 32.0  |
| 7       | 26.0                 | 29.0  | 31.0                 | 34.0   | 29.0                | 28.0  | 27.0              | 26.0  | 85.0                  | 85.0   | 2.0                       | 4.0   | 1.8                     | 2.4   | NE                      | SW    | 0.4           | -     | 2.0                  | 2.0   | 28.0                  | 32.5  |
| 8       | 25.0                 | 27.0  | 30.0                 | 35.0   | 30.0                | 27.0  | 27.0              | 24.0  | 78.0                  | 77.0   | 2.0                       | 2.0   | 0.3                     | 2.7   | NW                      | NW    | -             | -     | 2.0                  | 1.0   | 27.5                  | 32.0  |
| 9       | 25.0                 | 30.0  | 29.0                 | 36.0   | 29.0                | 30.0  | 26.0              | 28.0  | 78.0                  | 85.0   | 2.0                       | 2.0   | 0.3                     | 0.6   | NW                      | SW    | -             | -     | 1.0                  | 2.0   | 27.0                  | 33.0  |
| 10      | 25.0                 | 30.0  | 33.0                 | 37.0   | 28.0                | 30.0  | 26.0              | 26.0  | 85.0                  | 72.0   | 2.0                       | 2.0   | 0.6                     | 1.3   | SW                      | SW    | -             | -     | 2.0                  | 2.0   | 27.5                  | 33.0  |
| 11      | 25.0                 | 29.0  | 33.0                 | 36.0   | 30.0                | 30.0  | 26.0              | 27.0  | 72.0                  | 78.0   | 2.0                       | 2.0   | 0.3                     | 1.4   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 27.5                  | 33.0  |
| 12      | 25.0                 | 27.0  | 32.0                 | 35.0   | 29.0                | 26.0  | 26.0              | 25.0  | 78.0                  | 92.0   | 2.0                       | 2.0   | 0.2                     | 1.5   | NE                      | W     | -             | 30.0  | 3.0                  | 4.0   | 28.0                  | 32.0  |
| 13      | 26.0                 | 28.0  | 31.0                 | 34.0   | 30.0                | 27.0  | 27.0              | 25.0  | 78.0                  | 84.0   | 2.0                       | 2.0   | 0.2                     | 1.0   | SE                      | SW    | -             | 0.6   | 2.0                  | 2.6   | 29.0                  | 31.0  |
| 14      | 26.0                 | 29.0  | 29.0                 | 36.0   | 28.0                | 30.0  | 26.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 0.2                     | 1.0   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 28.0                  | 34.0  |
| 15      | 25.0                 | 28.0  | 32.0                 | 37.0   | 29.0                | 29.0  | 26.0              | 26.0  | 78.0                  | 78.0   | 2.0                       | 2.0   | 0.2                     | 1.2   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 28.5                  | 33.0  |
| 16      | 26.0                 | 27.0  | 32.0                 | 33.0   | 27.0                | 29.0  | 24.0              | 25.0  | 77.0                  | 71.0   | 4.0                       | 2.0   | 0.3                     | 1.1   | NNE                     | NE    | -             | -     | 2.0                  | 2.0   | 26.0                  | 32.0  |
| 17      | 22.0                 | 26.0  | 30.0                 | 34.0   | 26.0                | 27.0  | 23.0              | 24.0  | 76.0                  | 77.0   | 2.0                       | 2.0   | 0.5                     | 2.2   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 24.0                  | 31.0  |
| 18      | 21.0                 | 26.0  | 30.0                 | 33.0   | 26.0                | 27.0  | 23.0              | 24.0  | 76.0                  | 77.0   | 2.0                       | 2.0   | 0.3                     | 3.5   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 23.5                  | 31.0  |
| 19      | 25.0                 | 28.0  | 30.0                 | 32.0   | 28.0                | 26.0  | 25.0              | 25.0  | 77.0                  | 92.0   | 3.0                       | 4.0   | 1.7                     | 5.2   | NE                      | NE    | -             | 5.6   | 1.0                  | 1.6   | 26.0                  | 31.0  |
| 20      | 25.0                 | 26.0  | 29.0                 | 31.0   | 26.0                | 25.0  | 24.0              | 24.0  | 84.0                  | 92.0   | 2.0                       | 2.0   | 0.8                     | 2.1   | NE                      | NW    | 0.6           | 5.4   | 2.6                  | 1.4   | 25.5                  | 28.0  |
| 21      | 24.0                 | 26.0  | 27.0                 | 35.0   | 26.0                | 27.0  | 25.0              | 25.0  | 76.0                  | 71.0   | 2.0                       | 2.0   | 0.6                     | 2.1   | SW                      | W     | -             | -     | 1.0                  | 2.0   | 24.5                  | 31.0  |
| 22      | 22.0                 | 28.0  | 31.0                 | 35.0   | 27.0                | 29.0  | 24.0              | 26.0  | 77.0                  | 78.0   | 2.0                       | 2.0   | 0.4                     | 2.1   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 25.0                  | 30.0  |
| 23      | 23.0                 | 27.0  | 30.0                 | 36.0   | 26.0                | 28.0  | 25.0              | 25.0  | 92.0                  | 77.0   | 2.0                       | 2.0   | 0.3                     | 1.8   | SE                      | SW    | -             | -     | 2.0                  | 2.0   | 25.5                  | 31.5  |
| 24      | 24.0                 | 25.0  | 31.0                 | 35.0   | 24.0                | 29.0  | 23.0              | 27.0  | 91.0                  | 85.0   | 4.0                       | 2.0   | 0.3                     | 0.6   | SE                      | E     | 24.8          | -     | 1.8                  | 1.0   | 24.0                  | 31.0  |
| 25      | 24.0                 | 27.0  | 31.0                 | 35.0   | 27.0                | 28.0  | 24.0              | 25.0  | 77.0                  | 77.0   | 2.0                       | 2.0   | 1.0                     | 1.2   | NE                      | SE    | -             | -     | 1.0                  | 2.0   | 25.5                  | 31.0  |
| 26      | 21.0                 | 26.0  | 30.0                 | 34.0   | 25.0                | 27.0  | 23.0              | 24.0  | 84.0                  | 77.0   | 2.0                       | 2.0   | 0.4                     | 1.1   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 23.5                  | 30.0  |
| 27      | 21.0                 | 25.0  | 29.0                 | 32.0   | 25.0                | 26.0  | 22.0              | 24.0  | 76.0                  | 84.0   | 2.0                       | 2.0   | 0.3                     | 0.7   | NE                      | NW    | -             | -     | 1.0                  | 2.0   | 23.0                  | 30.0  |
| 28      | 21.0                 | 24.0  | 28.0                 | 32.0   | 24.0                | 26.0  | 21.0              | 23.0  | 75.0                  | 76.0   | 2.0                       | 2.0   | 0.7                     | 0.3   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 23.0                  | 29.0  |
| 29      | 19.0                 | 29.0  | 28.0                 | 34.0   | 24.0                | 25.0  | 21.0              | 22.0  | 75.0                  | 76.0   | 2.0                       | 2.0   | 0.3                     | 1.4   | NE                      | SW    | -             | -     | 1.0                  | 2.0   | 21.0                  | 29.0  |
| 30      | 18.0                 | 23.0  | 24.0                 | 32.0   | 22.0                | 24.0  | 19.0              | 21.0  | 74.0                  | 75.0   | 2.0                       | 2.0   | 0.6                     | 1.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 19.0                  | 28.0  |
| 31      | 18.0                 |       | 26.0                 |        | 22.0                |       | 20.0              |       | 82.0                  |        | 2.0                       |       | 0.2                     |       | NE                      |       | -             |       | 1.0                  |       | 20.0                  |       |
| Total   | 740.0                | 848.0 | 928.0                | 1065.0 | 836.0               | 854.0 | 758.0             | 774.0 | 2480.0                | 2477.0 | 67.0                      | 66.0  | 15.6                    | 53.7  |                         |       | 32.6          | 46.0  | 51.2                 | 59.4  | 793.5                 | 975.0 |
| Average | 23.9                 | 27.4  | 29.9                 | 34.4   | 27.0                | 27.5  | 24.5              | 25.0  | 80.0                  | 79.9   | 2.2                       | 2.1   | 0.5                     | 1.7   |                         |       |               |       |                      |       | 25.6                  | 31.5  |
|         | 25.6                 |       | 32.1                 |        | 27.3                |       | 24.7              |       | 80.0                  |        | 2.1                       |       | 1.1                     |       |                         |       | 78.6 *        |       | 110.6                |       | 28.5                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 23.0  |                      | 31.0  |                     | 25.0  |                   | 21.0  |                       | 68.0   |                           | 2.0   |                         | 1.5   |                         | N     |               | -     |                      | 1.0   |                       | 28.0  |
| 1       | 19.0                 | 25.0  | 27.0                 | 32.0  | 24.0                | 26.0  | 22.0              | 22.0  | 83.0                  | 69.0   | 4.0                       | 2.0   | 0.3                     | 1.5   | N                       | W     | -             | -     | 1.0                  | 2.0   | 21.0                  | 28.0  |
| 2       | 20.0                 | 25.0  | 29.0                 | 33.0  | 25.0                | 24.0  | 22.0              | 21.0  | 76.0                  | 75.0   | 2.0                       | 2.0   | 0.3                     | 2.0   | NE                      | W     | -             | -     | 1.0                  | 2.0   | 22.0                  | 28.0  |
| 3       | 18.0                 | 25.0  | 27.0                 | 31.0  | 24.0                | 24.0  | 21.0              | 21.0  | 75.0                  | 75.0   | 2.0                       | 2.0   | 0.3                     | 2.6   | N                       | NE    | -             | -     | 2.0                  | 1.0   | 28.0                  | 28.0  |
| 4       | 18.0                 | 23.0  | 27.0                 | 31.0  | 23.0                | 25.0  | 20.0              | 21.0  | 75.0                  | 68.0   | 2.0                       | 2.0   | 0.1                     | 3.4   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 28.0  |
| 5       | 18.0                 | 24.0  | 28.0                 | 31.5  | 24.0                | 27.0  | 21.0              | 22.0  | 75.0                  | 63.0   | 2.0                       | 2.0   | 0.2                     | 3.0   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 19.5                  | 28.0  |
| 6       | 18.5                 | 25.0  | 29.0                 | 32.0  | 26.0                | 24.0  | 22.0              | 21.0  | 69.0                  | 75.0   | 2.0                       | 2.0   | 0.2                     | 2.4   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 21.0                  | 29.0  |
| 7       | 18.0                 | 24.0  | 27.0                 | 33.0  | 23.0                | 25.0  | 20.0              | 22.0  | 75.0                  | 76.0   | 2.0                       | 2.0   | 0.4                     | 1.8   | NE                      | N     | -             | -     | 1.0                  | 1.0   | 20.0                  | 29.0  |
| 8       | 18.5                 | 23.0  | 27.0                 | 32.0  | 22.0                | 25.0  | 20.0              | 22.0  | 82.0                  | 76.0   | 2.0                       | 2.0   | 0.2                     | 2.0   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 20.5                  | 28.5  |
| 9       | 18.0                 | 22.0  | 27.0                 | 32.0  | 22.0                | 24.0  | 19.0              | 20.0  | 74.0                  | 68.0   | 2.0                       | 2.0   | 0.3                     | 1.9   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 20.5                  | 27.5  |
| 10      | 16.0                 | 21.0  | 27.0                 | 31.0  | 21.0                | 24.0  | 19.0              | 20.0  | 82.0                  | 68.0   | 2.0                       | 2.0   | 0.3                     | 2.0   | NE                      | SE    | -             | -     | 1.0                  | 1.0   | 18.0                  | 27.0  |
| 11      | 15.0                 | 20.0  | 27.0                 | 30.0  | 20.0                | 22.0  | 17.0              | 20.0  | 73.0                  | 82.0   | 4.0                       | 2.0   | 0.3                     | 2.6   | NNE                     | NE    | -             | -     | 2.0                  | 1.0   | 17.0                  | 26.0  |
| 12      | 15.0                 | 17.0  | 26.0                 | 31.0  | 20.0                | 23.0  | 18.0              | 20.0  | 81.0                  | 75.0   | 4.0                       | 2.0   | 0.3                     | 2.3   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 17.0                  | 26.5  |
| 13      | 16.0                 | 18.0  | 26.0                 | 30.0  | 22.0                | 23.0  | 19.0              | 20.0  | 74.0                  | 75.0   | 2.0                       | 2.0   | 0.3                     | 2.5   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 18.5                  | 27.0  |
| 14      | 18.0                 | 21.0  | 23.0                 | 29.0  | 20.0                | 24.0  | 18.0              | 21.0  | 81.0                  | 75.0   | 2.0                       | 4.0   | 0.2                     | 5.1   | N                       | NE    | -             | -     | 1.0                  | 2.0   | 19.0                  | 26.0  |
| 15      | 21.0                 | 21.0  | 26.0                 | 25.0  | 21.0                | 22.0  | 19.0              | 20.0  | 82.0                  | 82.0   | 2.0                       | 4.0   | 0.2                     | 5.1   | NE                      | E     | 1.0           | 0.4   | 2.0                  | 1.4   | 21.0                  | 23.0  |
| 16      | 21.0                 | 23.0  | 24.0                 | 25.0  | 23.0                | 22.0  | 21.0              | 21.0  | 83.0                  | 91.0   | 4.0                       | 4.0   | 3.1                     | 5.6   | NE                      | E     | -             | -     | 1.0                  | 1.0   | 21.5                  | 24.0  |
| 17      | 22.0                 | 24.0  | 24.0                 | 27.0  | 23.0                | 24.0  | 21.0              | 22.0  | 83.0                  | 83.0   | 4.0                       | 4.0   | 2.0                     | 4.6   | NE                      | E     | 1.0           | -     | 1.0                  | 1.0   | 22.5                  | 25.5  |
| 18      | 21.0                 | 24.0  | 25.0                 | 28.0  | 25.0                | 26.0  | 22.0              | 23.0  | 76.0                  | 76.0   | 2.0                       | 2.0   | 0.6                     | 3.4   | NE                      | E     | -             | -     | 1.0                  | 1.0   | 22.5                  | 26.0  |
| 19      | 20.0                 | 22.0  | 26.0                 | 32.0  | 22.0                | 27.0  | 21.0              | 24.0  | 91.0                  | 77.0   | 2.0                       | 2.0   | 0.3                     | 2.7   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 21.5                  | 25.0  |
| 20      | 21.0                 | 24.0  | 27.0                 | 33.0  | 23.0                | 27.0  | 21.0              | 23.0  | 83.0                  | 70.0   | 2.0                       | 2.0   | 0.2                     | 2.1   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 22.0                  | 26.0  |
| 21      | 17.0                 | 23.0  | 30.0                 | 32.0  | 22.0                | 28.0  | 19.0              | 22.0  | 74.0                  | 57.0   | 2.0                       | 2.0   | 0.2                     | 1.6   | NE                      | W     | -             | -     | 1.0                  | 1.0   | 19.5                  | 26.5  |
| 22      | 16.0                 | 20.0  | 27.0                 | 32.0  | 20.0                | 26.0  | 17.0              | 21.0  | 73.0                  | 62.0   | 2.0                       | 2.0   | 0.3                     | 1.8   | NE                      | W     | -             | -     | 1.0                  | 1.0   | 18.0                  | 26.5  |
| 23      | 16.0                 | 20.0  | 27.0                 | 31.0  | 20.0                | 24.0  | 17.0              | 20.0  | 73.0                  | 68.0   | 2.0                       | 2.0   | 0.3                     | 2.2   | NE                      | N     | -             | -     | 2.0                  | 1.0   | 18.0                  | 25.0  |
| 24      | 13.0                 | 18.0  | 26.0                 | 30.0  | 17.0                | 23.0  | 15.0              | 18.0  | 80.0                  | 59.0   | 2.0                       | 2.0   | 0.4                     | 2.2   | NE                      | N     | -             | -     | 1.0                  | 1.0   | 15.5                  | 24.0  |
| 25      | 11.0                 | 14.0  | 26.0                 | 29.0  | 16.0                | 21.0  | 14.0              | 16.0  | 79.0                  | 57.0   | 2.0                       | 2.0   | 0.3                     | 1.9   | NE                      | N     | -             | -     | 2.0                  | 1.0   | 14.0                  | 23.5  |
| 26      | 11.0                 | 15.0  | 27.0                 | 28.0  | 17.0                | 22.0  | 14.0              | 18.0  | 70.0                  | 66.0   | 2.0                       | 2.0   | 0.3                     | 1.8   | NE                      | NE    | -             | -     | 1.4                  | 1.0   | 14.0                  | 24.0  |
| 27      | 11.0                 | 16.0  | 26.0                 | 30.0  | 17.0                | 22.0  | 14.0              | 17.0  | 70.0                  | 58.0   | 2.0                       | 2.0   | 0.3                     | 1.8   | NE                      | E     | -             | -     | 1.0                  | 1.0   | 12.0                  | 23.5  |
| 28      | 11.0                 | 16.0  | 26.0                 | 30.0  | 16.0                | 22.0  | 14.0              | 18.0  | 79.0                  | 66.0   | 2.0                       | 2.0   | 0.3                     | 2.0   | NE                      | S     | -             | -     | 1.0                  | 0.8   | 14.0                  | 23.5  |
| 29      | 11.0                 | 18.0  | 27.0                 | 30.0  | 17.0                | 23.0  | 14.0              | 18.0  | 70.0                  | 59.0   | 2.0                       | 2.0   | 0.3                     | 2.0   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 14.0                  | 24.0  |
| 30      | 10.0                 |       | 26.0                 |       | 18.0                |       | 16.0              |       | 80.0                  |        | 2.0                       |       | 0.3                     |       | NE                      |       | -             |       | 1.0                  |       | 15.0                  |       |
| Total   | 499.0                | 634.0 | 797.0                | 911.5 | 633.0               | 724.0 | 557.0             | 615.0 | 2321.0                | 2119.0 | 70.0                      | 68.0  | 12.8                    | 77.3  |                         |       | 2.0           | 0.4   | 38.4                 | 36.2  | 566.0                 | 784.5 |
| Average | 16.6                 | 21.1  | 26.6                 | 30.4  | 21.1                | 24.1  | 18.6              | 20.5  | 77.4                  | 70.6   | 2.3                       | 2.3   | 0.4                     | 2.6   |                         |       |               |       |                      |       | 18.9                  | 26.2  |
|         | 18.9                 |       | 28.5                 |       | 22.6                |       | 19.5              |       | 74.0                  |        | 2.3                       |       | 1.5                     |       |                         |       | 2.4           |       | 74.6                 |       | 22.5                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 20.0  |                      | 31.0  |                     | 23.0  |                   | 18.0  |                       | 59.0   |                           | 2.0   |                         | 1.9   |                         | NE    |               | -     |                      | 1.0   |                       | 24.5  |
| 1       | 12.0                 | 18.0  | 26.0                 | 28.0  | 17.0                | 21.0  | 15.0              | 17.0  | 80.0                  | 65.0   | 4.0                       | 2.0   | 0.2                     | 2.5   | N                       | E     | -             | -     | 1.0                  | 1.0   | 15.0                  | 23.5  |
| 2       | 11.0                 | 16.0  | 24.0                 | 26.0  | 17.0                | 20.0  | 14.0              | 17.0  | 70.0                  | 73.0   | 2.0                       | 2.0   | 0.2                     | 2.9   | N                       | NE    | -             | -     | 1.4                  | 1.0   | 14.5                  | 23.0  |
| 3       | 11.0                 | 16.0  | 23.0                 | 29.0  | 16.0                | 22.0  | 14.0              | 18.0  | 79.0                  | 66.0   | 2.0                       | 2.0   | 0.3                     | 2.2   | NE                      | N     | -             | -     | 1.0                  | 1.0   | 13.5                  | 23.0  |
| 4       | 11.0                 | 17.0  | 24.0                 | 29.0  | 16.0                | 21.0  | 14.0              | 18.0  | 79.0                  | 73.0   | 2.0                       | 2.0   | 0.3                     | 2.0   | NE                      | N     | -             | -     | 0.8                  | 1.0   | 14.0                  | 23.0  |
| 5       | 11.0                 | 16.0  | 23.0                 | 29.0  | 16.0                | 22.0  | 14.0              | 18.0  | 79.0                  | 66.0   | 2.0                       | 2.0   | 0.2                     | 1.9   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.0  |
| 6       | 13.0                 | 16.0  | 24.0                 | 29.0  | 17.0                | 23.0  | 15.0              | 19.0  | 80.0                  | 67.0   | 2.0                       | 2.0   | 0.2                     | 1.8   | N                       | NE    | -             | -     | 1.4                  | 1.0   | 14.5                  | 23.5  |
| 7       | 14.0                 | 19.0  | 26.0                 | 29.0  | 19.0                | 24.0  | 16.0              | 20.0  | 72.0                  | 68.0   | 2.0                       | 2.0   | 0.2                     | 2.6   | N                       | SE    | -             | -     | 1.0                  | 1.0   | 16.0                  | 24.0  |
| 8       | 15.0                 | 19.0  | 27.0                 | 29.0  | 18.0                | 24.0  | 16.0              | 20.0  | 80.0                  | 68.0   | 2.0                       | 4.0   | 0.2                     | 4.6   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 16.5                  | 24.5  |
| 9       | 17.0                 | 22.0  | 26.0                 | 30.0  | 22.0                | 25.0  | 19.0              | 21.0  | 74.0                  | 68.0   | 2.0                       | 4.0   | 0.6                     | 4.0   | NE                      | E     | -             | -     | 1.0                  | 1.0   | 18.0                  | 26.0  |
| 10      | 18.0                 | 20.0  | 27.0                 | 32.0  | 20.0                | 25.0  | 17.0              | 22.0  | 73.0                  | 76.0   | 2.0                       | 2.0   | 0.1                     | 2.2   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 20.0                  | 27.0  |
| 11      | 16.0                 | 20.0  | 27.0                 | 30.0  | 19.0                | 23.0  | 18.0              | 19.0  | 90.0                  | 67.0   | 2.0                       | 2.0   | 0.1                     | 1.9   | W                       | NW    | -             | -     | 1.0                  | 1.4   | 18.5                  | 26.0  |
| 12      | 15.0                 | 19.0  | 28.0                 | 30.0  | 18.0                | 24.0  | 16.0              | 20.0  | 80.0                  | 64.0   | 2.0                       | 2.0   | 0.1                     | 1.7   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 17.0                  | 26.5  |
| 13      | 14.0                 | 18.0  | 29.0                 | 32.0  | 17.0                | 26.0  | 16.0              | 21.0  | 90.0                  | 62.0   | 2.0                       | 2.0   | 0.2                     | 1.7   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 17.0                  | 26.0  |
| 14      | 14.0                 | 19.0  | 29.0                 | 33.0  | 18.0                | 25.0  | 17.0              | 20.0  | 90.0                  | 61.0   | 2.0                       | 2.0   | 0.3                     | 4.6   | N                       | NW    | -             | -     | 1.0                  | 1.0   | 17.0                  | 25.5  |
| 15      | 15.0                 | 19.0  | 27.0                 | 32.0  | 18.0                | 26.0  | 17.0              | 20.0  | 90.0                  | 55.0   | 4.0                       | 2.0   | 0.3                     | 1.8   | N                       | NE    | -             | -     | 1.0                  | 1.0   | 17.0                  | 26.0  |
| 16      | 15.0                 | 20.0  | 28.0                 | 31.0  | 19.0                | 26.0  | 17.0              | 21.0  | 81.0                  | 62.0   | 2.0                       | 2.0   | 0.3                     | 2.0   | N                       | W     | -             | -     | 1.0                  | 1.0   | 17.5                  | 26.0  |
| 17      | 14.0                 | 20.0  | 29.0                 | 32.0  | 16.0                | 26.0  | 15.0              | 21.0  | 89.0                  | 62.0   | 2.0                       | 2.0   | 0.3                     | 2.2   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 15.5                  | 27.0  |
| 18      | 11.0                 | 18.0  | 30.0                 | 31.0  | 16.0                | 20.0  | 13.0              | 16.0  | 69.0                  | 64.0   | 2.0                       | 2.0   | 0.5                     | 2.0   | NE                      | N     | -             | -     | 2.0                  | 1.4   | 14.5                  | 26.0  |
| 19      | 10.0                 | 18.0  | 23.0                 | 31.0  | 14.0                | 21.0  | 12.0              | 16.0  | 78.0                  | 57.0   | 2.0                       | 2.0   | 0.4                     | 2.1   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 13.0                  | 24.0  |
| 20      | 10.0                 | 17.0  | 24.0                 | 28.0  | 16.0                | 22.0  | 14.0              | 18.0  | 79.0                  | 66.0   | 2.0                       | 2.0   | 0.4                     | 2.5   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 13.0                  | 22.0  |
| 21      | 11.0                 | 17.0  | 25.0                 | 29.0  | 17.0                | 23.0  | 15.0              | 20.0  | 80.0                  | 75.0   | 2.0                       | 2.0   | 0.1                     | 2.2   | N                       | E     | -             | -     | 1.0                  | 1.0   | 13.5                  | 22.5  |
| 22      | 14.0                 | 18.0  | 25.0                 | 30.0  | 18.0                | 22.0  | 16.0              | 19.0  | 80.0                  | 74.0   | 4.0                       | 2.0   | 0.2                     | 2.0   | NNE                     | N     | -             | -     | 1.0                  | 1.0   | 15.0                  | 22.0  |
| 23      | 12.0                 | 16.0  | 25.0                 | 28.0  | 17.0                | 22.0  | 15.0              | 18.0  | 80.0                  | 79.0   | 2.0                       | 2.0   | 0.3                     | 1.9   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 15.0                  | 22.5  |
| 24      | 10.0                 | 16.0  | 25.0                 | 29.0  | 16.0                | 22.0  | 13.0              | 18.0  | 69.0                  | 79.0   | 2.0                       | 2.0   | 0.3                     | 2.3   | NE                      | SE    | -             | -     | 0.8                  | 0.8   | 14.0                  | 22.5  |
| 25      | 10.0                 | 17.0  | 25.0                 | 30.0  | 17.0                | 23.0  | 15.0              | 19.0  | 80.0                  | 67.0   | 2.0                       | 2.0   | 0.2                     | 1.8   | NE                      | N     | -             | -     | 1.0                  | 1.0   | 13.5                  | 23.0  |
| 26      | 10.0                 | 16.0  | 29.0                 | 30.0  | 15.0                | 22.0  | 12.0              | 16.0  | 68.0                  | 50.0   | 2.0                       | 2.0   | 0.3                     | 2.6   | NE                      | NW    | -             | -     | 1.0                  | 1.4   | 12.5                  | 23.0  |
| 27      | 10.0                 | 14.0  | 25.0                 | 28.0  | 13.0                | 22.0  | 11.0              | 17.0  | 77.0                  | 58.0   | 2.0                       | 2.0   | 0.4                     | 1.8   | NE                      | E     | -             | -     | 1.6                  | 1.0   | 12.0                  | 22.0  |
| 28      | 10.0                 | 15.0  | 25.0                 | 28.0  | 14.0                | 22.0  | 12.0              | 17.0  | 78.0                  | 58.0   | 2.0                       | 2.0   | 0.5                     | 2.4   | N                       | N     | -             | -     | 0.8                  | 1.2   | 11.5                  | 22.5  |
| 29      | 10.0                 | 14.0  | 25.0                 | 29.0  | 14.0                | 21.0  | 12.0              | 17.0  | 78.0                  | 65.0   | 2.0                       | 2.0   | 0.3                     | 2.1   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 12.0                  | 22.0  |
| 30      | 10.0                 | 16.0  | 28.0                 | 29.0  | 15.0                | 23.0  | 13.0              | 18.0  | 78.0                  | 59.0   | 2.0                       | 2.0   | 0.4                     | 2.2   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 12.0                  | 22.0  |
| 31      | 10.0                 |       | 29.0                 |       | 13.0                |       | 12.0              |       | 88.0                  |        | 2.0                       |       | 0.4                     |       | N                       |       | -             |       | 0.8                  |       | 13.0                  |       |
| Total   | 384.0                | 546.0 | 810.0                | 921.0 | 518.0               | 711.0 | 455.0             | 579.0 | 2458.0                | 2033.0 | 68.0                      | 66.0  | 8.5                     | 72.6  |                         |       | -             | -     | 32.6                 | 34.2  | 460.0                 | 744.0 |
| Average | 12.4                 | 17.6  | 26.1                 | 29.7  | 16.7                | 22.9  | 14.7              | 18.7  | 79.3                  | 65.6   | 2.2                       | 2.1   | 0.3                     | 2.3   |                         |       |               |       |                      |       | 14.8                  | 24.0  |
|         | 15.0                 |       | 27.9                 |       | 19.8                |       | 16.7              |       | 72.4                  |        | 2.2                       |       | 1.3                     |       |                         |       | 0.0           |       | 66.8                 |       | 19.4                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPoPM   |                      | 14.0  |                      | 29.0  |                     | 23.0  |                   | 18.0  |                       | 59.0   |                           | 2.0   |                         | 2.2   |                         | NE    |               | -     |                      | 0.8   |                       | ..      |
| 1       | 10.0                 | 18.0  | 30.0                 | 28.0  | 16.0                | 22.0  | 14.0              | 18.0  | 79.0                  | 79.0   | 4.0                       | 2.0   | 0.4                     | 3.2   | N                       | NE    | -             | -     | 1.0                  | 1.0   | 14.0                  | 23.0    |
| 2       | 11.0                 | 16.0  | 24.0                 | 28.0  | 14.0                | 22.0  | 13.0              | 18.0  | 89.0                  | 79.0   | 2.0                       | 2.0   | 0.9                     | 2.4   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 13.5                  | 22.0    |
| 3       | 11.0                 | 16.0  | 25.0                 | 28.0  | 15.0                | 22.0  | 13.0              | 18.0  | 59.0                  | 66.0   | 2.0                       | 2.0   | 0.5                     | 2.6   | NE                      | W     | -             | -     | 1.0                  | 1.0   | 13.0                  | 21.5    |
| 4       | 8.0                  | 15.0  | 25.0                 | 27.0  | 13.0                | 20.0  | 11.0              | 16.0  | 77.0                  | 64.0   | 2.0                       | 2.0   | 0.3                     | 2.5   | N                       | E     | -             | -     | 1.0                  | 1.0   | 12.0                  | 22.0    |
| 5       | 7.0                  | 13.0  | 24.0                 | 28.0  | 11.0                | 22.0  | 10.0              | 17.0  | 87.0                  | 58.0   | 2.0                       | 2.0   | 0.3                     | 2.3   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 10.0                  | 20.5    |
| 6       | 7.0                  | 14.0  | 23.0                 | 29.0  | 13.0                | 22.0  | 11.0              | 17.0  | 77.0                  | 58.0   | 2.0                       | 2.0   | 0.6                     | 2.4   | NE                      | W     | -             | -     | 1.4                  | 1.0   | 10.5                  | 20.0    |
| 7       | 7.0                  | 14.0  | 24.0                 | 28.0  | 13.0                | 20.0  | 10.0              | 16.0  | 66.0                  | 64.0   | 4.0                       | 2.0   | 0.7                     | 2.4   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 10.0                  | 20.0    |
| 8       | 7.0                  | 14.0  | 24.0                 | 27.0  | 13.0                | 21.0  | 11.0              | 16.0  | 77.0                  | 57.0   | 4.0                       | 2.0   | 0.6                     | 2.9   | NNE                     | NE    | -             | -     | 0.8                  | 1.0   | 10.5                  | 20.0    |
| 9       | 7.0                  | 14.0  | 24.0                 | 28.0  | 12.0                | 22.0  | 10.0              | 17.0  | 76.0                  | 58.0   | 2.0                       | 2.0   | 0.3                     | 2.5   | NNE                     | S     | -             | -     | 1.4                  | 1.0   | 11.0                  | 21.0    |
| 10      | 7.0                  | 14.0  | 25.0                 | 27.0  | 13.0                | 22.0  | 10.0              | 17.0  | 66.0                  | 58.0   | 2.0                       | 2.0   | 0.4                     | 2.4   | NE                      | NW    | -             | -     | 2.0                  | 1.0   | 12.0                  | 20.0    |
| 11      | 7.0                  | 15.0  | 25.0                 | 29.0  | 13.0                | 23.0  | 11.0              | 17.0  | 77.0                  | 52.0   | 2.0                       | 2.0   | 0.5                     | 2.6   | N                       | W     | -             | -     | 1.4                  | 1.6   | 10.5                  | 21.0    |
| 12      | 9.0                  | 14.0  | 28.0                 | 31.0  | 12.0                | 23.0  | 10.0              | 17.0  | 76.0                  | 52.0   | 2.0                       | 2.0   | 0.6                     | 2.4   | NE                      | W     | -             | -     | 1.2                  | 1.0   | 12.0                  | 21.5    |
| 13      | 9.0                  | 14.0  | 26.0                 | 32.0  | 14.0                | 24.0  | 12.0              | 18.0  | 78.0                  | 53.0   | 2.0                       | 2.0   | 0.4                     | 2.4   | NE                      | N     | -             | -     | 0.8                  | 1.0   | 11.5                  | 22.0    |
| 14      | 11.0                 | 14.0  | 27.0                 | 30.0  | 12.0                | 23.0  | 11.0              | 18.0  | 88.0                  | 59.0   | 2.0                       | 2.0   | 0.7                     | 2.9   | N                       | NE    | -             | -     | 1.0                  | 1.4   | 12.5                  | 23.0    |
| 15      | 8.0                  | 14.0  | 28.0                 | 31.0  | 12.0                | 24.0  | 10.0              | 18.0  | 76.0                  | 53.0   | 2.0                       | 2.0   | 0.4                     | 2.2   | NE                      | N     | -             | -     | 1.0                  | 1.0   | 13.0                  | 23.0    |
| 16      | 7.0                  | 14.0  | 27.0                 | 31.0  | 12.0                | 24.0  | 10.0              | 18.0  | 76.0                  | 53.0   | 2.0                       | 2.0   | 0.7                     | 3.0   | N                       | W     | -             | -     | 1.0                  | 2.0   | 11.5                  | 22.5    |
| 17      | 7.0                  | 15.0  | 27.0                 | 30.0  | 13.0                | 24.0  | 11.0              | 17.0  | 77.0                  | 49.0   | 2.0                       | 2.0   | 0.6                     | 3.0   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 12.0                  | 23.0    |
| 18      | 7.0                  | 15.0  | 26.0                 | 31.0  | 15.0                | 22.0  | 12.0              | 16.0  | 68.0                  | 50.0   | 4.0                       | 2.0   | 1.8                     | 3.2   | NE                      | NW    | -             | -     | 2.0                  | 1.0   | 13.0                  | 21.5    |
| 19      | 8.0                  | 17.0  | 25.0                 | 31.0  | 16.0                | 23.0  | 13.0              | 17.0  | 69.0                  | 52.0   | 4.0                       | 2.0   | 1.0                     | 2.9   | NNE                     | N     | -             | -     | 1.0                  | 2.0   | 12.0                  | 22.0    |
| 20      | 9.0                  | 16.0  | 26.0                 | 31.0  | 16.0                | 23.0  | 13.0              | 18.0  | 69.0                  | 59.0   | 2.0                       | 2.0   | 0.6                     | 2.7   | NE                      | NE    | -             | -     | 1.0                  | 1.0   | 12.0                  | 23.0    |
| 21      | 10.0                 | 17.0  | 27.0                 | 30.0  | 16.0                | 25.0  | 14.0              | 18.0  | 79.0                  | 47.0   | 2.0                       | 2.0   | 0.5                     | 3.4   | NE                      | N     | -             | -     | 1.0                  | 1.0   | 13.0                  | 23.5    |
| 22      | 10.0                 | 17.0  | 27.0                 | 31.0  | 16.0                | 24.0  | 14.0              | 18.0  | 79.0                  | 53.0   | 2.0                       | 2.0   | 0.7                     | 2.8   | NNE                     | SE    | -             | -     | 1.0                  | 2.0   | 14.0                  | 23.0    |
| 23      | 10.0                 | 16.0  | 26.0                 | 30.0  | 16.0                | 23.0  | 14.0              | 18.0  | 79.0                  | 59.0   | 2.0                       | 2.0   | 0.5                     | 2.6   | N                       | W     | -             | -     | 1.0                  | 2.0   | 13.5                  | 23.5    |
| 24      | 11.0                 | 16.0  | 25.0                 | 30.0  | 15.0                | 24.0  | 13.0              | 18.0  | 78.0                  | 53.0   | 2.0                       | 2.0   | 0.4                     | 2.8   | NE                      | NW    | -             | -     | 1.0                  | 1.0   | 14.0                  | 24.0    |
| 25      | 9.0                  | 17.0  | 28.0                 | 30.0  | 16.0                | 24.0  | 14.0              | 17.0  | 79.0                  | 46.0   | 2.0                       | 2.0   | 0.6                     | 3.2   | NE                      | NW    | -             | -     | 1.6                  | 2.0   | 15.0                  | 23.0    |
| 26      | 9.0                  | 17.0  | 27.0                 | 29.0  | 15.0                | 24.0  | 13.0              | 18.0  | 78.0                  | 53.0   | 2.0                       | 2.0   | 0.6                     | 3.3   | NE                      | NE    | -             | -     | 1.0                  | 2.0   | 11.5                  | 24.0    |
| 27      | 9.0                  | 18.0  | 28.0                 | 29.0  | 15.0                | 24.0  | 12.0              | 17.0  | 68.0                  | 46.0   | 2.0                       | 2.0   | 0.7                     | 2.9   | NE                      | S     | -             | -     | 2.0                  | 2.0   | 13.5                  | 24.0    |
| 28      | 8.0                  | 17.0  | 30.0                 | 30.0  | 14.0                | 24.0  | 11.0              | 17.0  | 67.0                  | 46.0   | 2.0                       | 2.0   | 0.8                     | 3.0   | NE                      | E     | -             | -     | 1.4                  | 1.0   | 11.0                  | 23.0    |
| 29      | 9.0                  | 17.0  | 27.0                 | 31.0  | 15.0                | 24.0  | 11.0              | 17.0  | 58.0                  | 46.0   | 2.0                       | 2.0   | 0.8                     | 3.4   | NE                      | NW    | -             | -     | 1.6                  | 2.0   | 12.5                  | 24.0    |
| 30      | 8.0                  | 16.0  | 27.0                 | 30.0  | 14.0                | 27.0  | 11.0              | 19.0  | 67.0                  | 44.0   | 2.0                       | 2.0   | 0.7                     | 2.6   | NE                      | N     | -             | -     | 2.0                  | 1.0   | 12.0                  | 24.5    |
| 31      | 10.0                 |       | 30.0                 |       | 15.0                |       | 13.0              |       | 78.0                  |        | 2.0                       |       | 0.5                     |       | NE                      |       | -             |       | 1.0                  |       | 13.0                  |         |
| Total   | 267.0                | 478.0 | 815.0                | 914.0 | 435.0               | 714.0 | 366.0             | 539.0 | 2317.0                | 1725.0 | 72.0                      | 62.0  | 18.8                    | 85.4  |                         |       | -             | -     | 37.6                 | 40.8  | 379.5                 | 669.0 * |
| Average | 8.6                  | 15.4  | 26.3                 | 29.5  | 14.0                | 23.0  | 11.8              | 17.4  | 74.7                  | 55.6   | 2.3                       | 2.0   | 0.6                     | 2.8   |                         |       |               |       |                      |       | 12.2                  | 22.3 *  |
|         | 12.0                 |       | 27.9                 |       | 18.5                |       | 14.6              |       | 65.2                  |        | 2.2                       |       | 1.7                     |       |                         |       | 0.0           |       | 78.4                 |       | 17.3 *                |         |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 17.0  |                      | 31.0  |                     | 26.0  |                   | 18.0  |                       | 42.0   |                           | 2.0   |                         | 3.3   |                         | NW    |               | -     |                      | 1.0   |                       | 24.0  |
| 1       | 10.0                 | 18.0  | 28.0                 | 32.0  | 15.0                | 28.0  | 12.0              | 19.0  | 68.0                  | 39.0   | 4.0                       | 2.0   | 0.7                     | 3.7   | NE                      | SE    | -             | -     | 2.0                  | 2.0   | 13.0                  | 25.0  |
| 2       | 10.0                 | 18.0  | 30.0                 | 33.0  | 17.0                | 28.0  | 13.0              | 19.0  | 61.0                  | 39.0   | 2.0                       | 2.0   | 0.9                     | 2.4   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 13.0                  | 25.0  |
| 3       | 12.0                 | 18.0  | 32.0                 | 32.0  | 16.0                | 27.0  | 14.0              | 19.0  | 79.0                  | 44.0   | 2.0                       | 2.0   | 0.7                     | 3.1   | N                       | SE    | -             | -     | 1.0                  | 2.0   | 15.0                  | 26.0  |
| 4       | 14.0                 | 19.0  | 30.0                 | 34.0  | 19.0                | 28.0  | 16.0              | 22.0  | 72.0                  | 57.0   | 2.0                       | 2.0   | 0.5                     | 2.6   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 12.0                  | 26.0  |
| 5       | 15.0                 | 18.0  | 31.0                 | 32.0  | 20.0                | 28.0  | 17.0              | 24.0  | 73.0                  | 70.0   | 2.0                       | 2.0   | 0.6                     | 3.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 15.0                  | 27.0  |
| 6       | 15.0                 | 19.0  | 31.0                 | 34.0  | 19.0                | 29.0  | 17.0              | 23.0  | 81.0                  | 58.0   | 2.0                       | 2.0   | 0.4                     | 2.7   | N                       | SW    | -             | -     | 1.0                  | 1.0   | 17.0                  | 27.0  |
| 7       | 16.0                 | 18.0  | 32.0                 | 31.0  | 19.0                | 27.0  | 17.0              | 21.0  | 81.0                  | 56.0   | 2.0                       | 2.0   | 0.7                     | 2.4   | NE                      | NE    | -             | -     | 2.0                  | 1.0   | 18.0                  | 25.0  |
| 8       | 17.0                 | 20.0  | 30.0                 | 33.0  | 19.0                | 27.0  | 16.0              | 21.0  | 72.0                  | 56.0   | 2.0                       | 2.0   | 0.5                     | 2.5   | NE                      | W     | -             | -     | 2.0                  | 2.0   | 19.0                  | 26.0  |
| 9       | 16.0                 | 20.0  | 30.0                 | 33.0  | 19.0                | 27.0  | 17.0              | 22.0  | 81.0                  | 63.0   | 4.0                       | 2.0   | 0.5                     | 2.1   | N                       | W     | -             | -     | 2.0                  | 2.0   | 19.5                  | 27.0  |
| 10      | 18.0                 | 21.0  | 32.0                 | 30.0  | 20.0                | 25.0  | 16.0              | 20.0  | 64.0                  | 61.0   | 4.0                       | 2.0   | 1.6                     | 5.4   | NE                      | E     | -             | -     | 2.0                  | 1.0   | 19.0                  | 26.5  |
| 11      | 16.0                 | 20.0  | 27.0                 | 30.0  | 20.0                | 25.0  | 16.0              | 20.0  | 64.0                  | 61.0   | 4.0                       | 2.0   | 1.0                     | 4.6   | NNE                     | NE    | -             | -     | 2.0                  | 2.0   | 17.0                  | 25.0  |
| 12      | 17.0                 | 20.0  | 27.0                 | 32.0  | 20.0                | 26.0  | 17.0              | 20.0  | 73.0                  | 48.0   | 2.0                       | 4.0   | 1.5                     | 4.1   | NNE                     | NW    | -             | -     | 2.0                  | 1.0   | 17.5                  | 27.0  |
| 13      | 17.0                 | 20.0  | 28.0                 | 30.0  | 20.0                | 24.0  | 17.0              | 20.0  | 75.0                  | 68.0   | 2.0                       | 2.0   | 2.1                     | 3.8   | NE                      | NW    | -             | -     | 2.0                  | 2.0   | 19.0                  | 25.0  |
| 14      | 17.0                 | 20.0  | 26.0                 | 31.0  | 19.0                | 26.0  | 17.0              | 20.0  | 81.0                  | 48.0   | 2.0                       | 2.0   | 2.6                     | 3.2   | SW                      | NW    | 0.8           | -     | 1.2                  | 2.8   | 18.0                  | 27.0  |
| 15      | 13.0                 | 20.0  | 28.0                 | 32.0  | 20.0                | 28.0  | 17.0              | 18.0  | 73.0                  | 42.0   | 2.0                       | 2.0   | 1.0                     | 3.6   | NNE                     | NW    | -             | -     | 2.0                  | 3.0   | 17.5                  | 26.5  |
| 16      | 12.0                 | 20.0  | 27.0                 | 32.0  | 19.0                | 28.0  | 15.0              | 21.0  | 63.0                  | 51.0   | 4.0                       | 2.0   | 0.7                     | 3.4   | NNE                     | SW    | -             | -     | 2.0                  | 4.0   | 15.5                  | 27.0  |
| 17      | 12.0                 | 21.0  | 31.0                 | 32.0  | 18.0                | 27.0  | 16.0              | 20.0  | 80.0                  | 50.0   | 2.0                       | 2.0   | 0.6                     | 3.0   | E                       | NE    | -             | -     | 1.0                  | 2.0   | 16.0                  | 27.0  |
| 18      | 13.0                 | 20.0  | 30.0                 | 33.0  | 18.0                | 28.0  | 15.0              | 20.0  | 71.0                  | 45.0   | 4.0                       | 2.0   | 0.9                     | 2.7   | NW                      | NE    | -             | -     | 4.0                  | 2.0   | 16.0                  | 27.0  |
| 19      | 15.0                 | 22.0  | 32.0                 | 35.0  | 20.0                | 28.0  | 16.0              | 21.0  | 64.0                  | 51.0   | 2.0                       | 2.0   | 0.9                     | 2.5   | N                       | SW    | -             | -     | 2.0                  | 1.0   | 17.0                  | 27.0  |
| 20      | 15.0                 | 23.0  | 32.0                 | 34.0  | 21.0                | 28.0  | 18.0              | 22.0  | 73.0                  | 57.0   | 2.0                       | 2.0   | 0.8                     | 3.1   | NE                      | W     | -             | -     | 2.0                  | 1.0   | 20.0                  | 28.0  |
| 21      | 14.0                 | 23.0  | 31.0                 | 35.0  | 22.0                | 28.0  | 18.0              | 20.0  | 66.0                  | 45.0   | 4.0                       | 2.0   | 1.1                     | 4.0   | NNE                     | W     | -             | -     | 1.0                  | 2.0   | 18.5                  | 27.5  |
| 22      | 14.0                 | 21.0  | 31.0                 | 36.0  | 20.0                | 29.0  | 17.0              | 21.0  | 73.0                  | 46.0   | 2.0                       | 2.0   | 0.9                     | 3.2   | NE                      | S     | -             | -     | 2.0                  | 2.0   | 17.5                  | 28.5  |
| 23      | 15.0                 | 22.0  | 31.0                 | 37.0  | 20.0                | 30.0  | 18.0              | 22.0  | 81.0                  | 47.0   | 2.0                       | 2.0   | 0.9                     | 4.2   | NE                      | NE    | -             | -     | 3.0                  | 2.0   | 19.0                  | 28.0  |
| 24      | 15.0                 | 22.0  | 33.0                 | 38.0  | 21.0                | 32.0  | 18.0              | 23.0  | 73.0                  | 44.0   | 2.0                       | 2.0   | 0.7                     | 3.4   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 18.5                  | 29.0  |
| 25      | 17.0                 | 22.0  | 35.0                 | 37.0  | 22.0                | 30.0  | 18.0              | 24.0  | 66.0                  | 59.0   | 2.0                       | 2.0   | 0.7                     | 3.5   | NW                      | NE    | -             | -     | 2.0                  | 1.0   | 20.0                  | 30.0  |
| 26      | 19.0                 | 22.0  | 33.0                 | 34.0  | 22.0                | 30.0  | 20.0              | 22.0  | 82.0                  | 47.0   | 2.0                       | 2.0   | 1.5                     | 3.6   | NE                      | NE    | 4.6           | -     | 0.6                  | 2.0   | 20.0                  | 29.0  |
| 27      | 18.0                 | 24.0  | 32.0                 | 37.0  | 22.0                | 30.0  | 18.0              | 22.0  | 66.0                  | 47.0   | 2.0                       | 2.0   | 0.6                     | 3.2   | NE                      | W     | -             | -     | 2.0                  | 2.0   | 18.5                  | 29.5  |
| 28      | 15.0                 |       | 34.0                 |       | 23.0                |       | 18.0              |       | 59.0                  |        | 2.0                       |       | 1.0                     |       | NE                      |       | -             |       | 4.0                  |       | 18.0                  |       |
| Total   | 417.0                | 568.0 | 854.0                | 930.0 | 550.0               | 777.0 | 464.0             | 584.0 | 2015.0                | 1441.0 | 70.0                      | 58.0  | 26.4                    | 92.4  |                         |       | 5.4           | -     | 54.8                 | 52.8  | 484.0                 | 752.5 |
| Average | 14.9                 | 20.3  | 30.5                 | 33.2  | 19.6                | 27.8  | 16.6              | 20.9  | 72.0                  | 51.5   | 2.5                       | 2.1   | 0.9                     | 3.3   |                         |       |               |       |                      |       | 17.3                  | 26.9  |
|         | 17.6                 |       | 31.9                 |       | 23.7                |       | 18.7              |       | 61.7                  |        | 2.3                       |       | 2.1                     |       |                         |       | 5.4           |       | 107.6                |       | 22.1                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 24.0  |                      | 38.0   |                     | 32.0   |                   | 23.0  |                       | 42.0   |                           | 2.0   |                         | 3.3   |                         | N     |               | -     |                      | 2.0   |                       | 30.5  |
| 1       | 16.0                 | 25.0  | 36.0                 | 38.0   | 24.0                | 31.0   | 20.0              | 23.0  | 68.0                  | 48.0   | 2.0                       | 2.0   | 0.6                     | 3.2   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 31.0  |
| 2       | 17.0                 | 26.0  | 35.0                 | 39.0   | 26.0                | 32.0   | 20.0              | 23.0  | 55.0                  | 31.0   | 2.0                       | 4.0   | 0.6                     | 3.1   | N                       | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 31.0  |
| 3       | 18.0                 | 25.0  | 35.0                 | 38.0   | 25.0                | 32.0   | 20.0              | 23.0  | 61.0                  | 31.0   | 2.0                       | 2.0   | 0.8                     | 4.5   | N                       | NE    | -             | -     | 2.0                  | 3.0   | 20.0                  | 30.0  |
| 4       | 17.0                 | 24.0  | 34.0                 | 39.0   | 23.0                | 32.0   | 19.0              | 24.0  | 67.0                  | 49.0   | 2.0                       | 2.0   | 1.9                     | 3.1   | N                       | S     | -             | -     | 2.0                  | 2.0   | 20.0                  | 30.0  |
| 5       | 20.0                 | 26.0  | 35.0                 | 35.0   | 25.0                | 27.0   | 20.0              | 21.0  | 61.0                  | 56.0   | 2.0                       | 2.0   | 0.8                     | 8.1   | NNE                     | N     | -             | -     | 2.0                  | 2.0   | 21.5                  | 26.5  |
| 6       | 18.0                 | 24.0  | 32.0                 | 36.0   | 23.0                | 32.0   | 19.0              | 24.0  | 67.0                  | 49.0   | 2.0                       | 2.0   | 1.1                     | 3.0   | NE                      | W     | -             | -     | 2.0                  | 2.0   | 21.0                  | 30.0  |
| 7       | 17.0                 | 24.0  | 34.0                 | 38.0   | 23.0                | 32.0   | 19.0              | 23.0  | 67.0                  | 44.0   | 2.0                       | 2.0   | 0.7                     | 3.4   | NE                      | W     | -             | -     | 2.0                  | 3.0   | 19.5                  | 30.0  |
| 8       | 17.0                 | 25.0  | 35.0                 | 37.0   | 24.0                | 32.0   | 18.0              | 23.0  | 52.0                  | 44.0   | 4.0                       | 2.0   | 1.4                     | 4.3   | NE                      | NW    | -             | -     | 2.0                  | 3.0   | 19.5                  | 30.0  |
| 9       | 18.0                 | 25.0  | 35.0                 | 37.0   | 24.0                | 32.0   | 19.0              | 24.0  | 60.0                  | 49.0   | 2.0                       | 2.0   | 1.9                     | 3.7   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.0                  | 31.0  |
| 10      | 17.0                 | 20.0  | 36.0                 | 33.0   | 24.0                | 32.0   | 18.0              | 22.0  | 52.0                  | 39.0   | 4.0                       | 2.0   | 0.8                     | 4.4   | NE                      | N     | -             | -     | 3.0                  | 2.0   | 20.0                  | 30.0  |
| 11      | 16.0                 | 16.0  | 38.0                 | 37.0   | 23.0                | 30.0   | 18.0              | 21.0  | 59.0                  | 42.0   | 2.0                       | 2.0   | 0.8                     | 2.2   | NNE                     | N     | -             | -     | 2.0                  | 2.0   | 19.5                  | 30.0  |
| 12      | 16.0                 | 17.0  | 38.0                 | 35.0   | 26.0                | 32.0   | 21.0              | 22.0  | 57.0                  | 39.0   | 2.0                       | 2.0   | 1.0                     | 2.7   | SE                      | N     | -             | -     | 2.0                  | 3.0   | 20.5                  | 30.0  |
| 13      | 18.0                 | 25.0  | 36.0                 | 37.0   | 25.0                | 32.0   | 20.0              | 23.0  | 61.0                  | 49.0   | 2.0                       | 2.0   | 0.8                     | 3.4   | E                       | E     | -             | -     | 2.0                  | 3.0   | 21.5                  | 31.0  |
| 14      | 18.0                 | 26.0  | 38.0                 | 39.0   | 26.0                | 33.0   | 19.0              | 24.0  | 49.0                  | 45.0   | 2.0                       | 2.0   | 1.0                     | 2.8   | NE                      | NE    | -             | -     | 3.0                  | 3.0   | 21.0                  | 32.0  |
| 15      | 18.0                 | 25.0  | 38.0                 | 36.0   | 24.0                | 32.0   | 18.0              | 24.0  | 53.0                  | 49.0   | 2.0                       | 2.0   | 0.7                     | 2.0   | NW                      | NW    | -             | -     | 2.0                  | 2.0   | 20.0                  | 28.5  |
| 16      | 22.0                 | 23.0  | 29.0                 | 27.0   | 22.0                | 24.0   | 21.0              | 21.0  | 91.0                  | 75.0   | 2.0                       | 4.0   | 1.1                     | 4.3   | S                       | SW    | 2.4           | -     | 0.4                  | 2.0   | 23.0                  | 25.0  |
| 17      | 17.0                 | 23.0  | 25.0                 | 36.0   | 22.0                | 30.0   | 21.0              | 23.0  | 91.5                  | 53.0   | 4.0                       | 2.0   | 1.5                     | 4.4   | S                       | SW    | -             | -     | 1.0                  | 2.0   | 20.5                  | 30.0  |
| 18      | 18.0                 | 26.0  | 36.0                 | 38.0   | 26.0                | 32.0   | 21.0              | 24.0  | 57.0                  | 49.0   | 4.0                       | 2.0   | 0.8                     | 4.0   | NNE                     | NW    | -             | -     | 2.0                  | 2.0   | 21.5                  | 31.0  |
| 19      | 18.0                 | 29.0  | 36.0                 | 40.0   | 28.0                | 34.0   | 20.0              | 24.0  | 45.0                  | 41.0   | 2.0                       | 2.0   | 1.1                     | 3.9   | NE                      | SW    | -             | -     | 2.0                  | 4.0   | 20.5                  | 31.0  |
| 20      | 17.0                 | 29.0  | 37.0                 | 39.0   | 29.0                | 34.0   | 21.0              | 24.0  | 46.0                  | 41.0   | 2.0                       | 2.0   | 1.1                     | 4.6   | NE                      | NW    | -             | -     | 2.0                  | 4.0   | 20.5                  | 31.0  |
| 21      | 19.0                 | 27.0  | 36.0                 | 37.0   | 28.0                | 30.0   | 20.0              | 23.0  | 45.0                  | 53.0   | 2.0                       | 2.0   | 0.9                     | 1.9   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 20.5                  | 29.0  |
| 22      | 21.0                 | 18.0  | 33.0                 | 40.0   | 27.0                | 35.0   | 22.0              | 25.0  | 63.0                  | 42.0   | 2.0                       | 2.0   | 1.4                     | 3.6   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 22.0                  | 32.0  |
| 23      | 20.0                 | 29.0  | 38.0                 | 41.0   | 27.0                | 36.0   | 21.0              | 25.0  | 56.0                  | 38.0   | 2.0                       | 2.0   | 0.9                     | 3.7   | NE                      | S     | -             | -     | 2.0                  | 3.0   | 23.0                  | 32.0  |
| 24      | 20.0                 | 29.0  | 38.0                 | 41.0   | 27.0                | 36.0   | 21.0              | 26.0  | 56.0                  | 43.0   | 2.0                       | 2.0   | 0.9                     | 4.1   | NNE                     | NW    | -             | -     | 2.0                  | 4.0   | 21.5                  | 32.0  |
| 25      | 20.0                 | 29.0  | 39.0                 | 41.0   | 28.0                | 35.0   | 22.0              | 25.0  | 57.0                  | 42.0   | 2.0                       | 2.0   | 0.5                     | 3.6   | NE                      | W     | -             | -     | 2.0                  | 2.0   | 22.0                  | 33.0  |
| 26      | 19.0                 | 30.0  | 39.0                 | 41.0   | 29.0                | 34.0   | 21.0              | 24.0  | 46.0                  | 41.0   | 2.0                       | 2.0   | 0.9                     | 4.6   | NW                      | SW    | -             | -     | 2.0                  | 4.0   | 23.0                  | 32.0  |
| 27      | 18.0                 | 28.0  | 37.0                 | 41.0   | 28.0                | 34.0   | 21.0              | 24.0  | 51.0                  | 41.0   | 2.0                       | 2.0   | 1.0                     | 3.8   | NE                      | NE    | -             | -     | 2.0                  | 4.0   | 22.0                  | 32.0  |
| 28      | 18.0                 | 30.0  | 40.0                 | 41.0   | 30.0                | 34.0   | 22.0              | 24.0  | 47.0                  | 41.0   | 2.0                       | 2.0   | 1.0                     | 3.5   | E                       | SW    | -             | -     | 2.0                  | 4.0   | 22.0                  | 32.0  |
| 29      | 18.0                 | 25.0  | 37.0                 | 42.0   | 25.0                | 35.0   | 19.0              | 25.0  | 54.0                  | 42.0   | 2.0                       | 2.0   | 0.9                     | 3.1   | NE                      | S     | -             | -     | 2.0                  | 2.0   | 21.0                  | 32.0  |
| 30      | 20.0                 | 27.0  | 39.0                 | 43.0   | 29.0                | 35.0   | 22.0              | 24.0  | 52.0                  | 37.0   | 2.0                       | 2.0   | 1.1                     | 3.4   | NE                      | NE    | -             | -     | 2.0                  | 4.0   | 23.0                  | 32.0  |
| 31      | 22.0                 |       | 38.0                 |        | 29.0                |        | 24.0              |       | 64.0                  |        | 2.0                       |       | 0.7                     |       | N                       |       | -             |       | 2.0                  |       | 24.0                  |       |
| Total   | 568.0                | 779.0 | 1112.0               | 1180.0 | 799.0               | 1003.0 | 627.0             | 728.0 | 1810.5                | 1385.0 | 70.0                      | 66.0  | 30.8                    | 113.7 |                         |       | 2.4           | -     | 61.4                 | 84.0  | 654.0                 | 947.5 |
| Average | 18.3                 | 25.1  | 35.9                 | 38.1   | 25.8                | 32.4   | 20.2              | 23.5  | 58.4                  | 44.7   | 2.3                       | 2.1   | 1.0                     | 3.7   |                         |       |               |       |                      |       | 21.1                  | 30.6  |
|         | 21.7                 |       | 37.0                 |        | 29.1                |        | 21.9              |       | 51.5                  |        | 2.2                       |       | 2.3                     |       |                         |       | 2.4           |       | 145.4                |       | 25.8                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 25.0  |                      | 43.0   |                     | 34.0   |                   | 25.0  |                       | 46.0   |                           | 2.0   |                         | 4.5   |                         | NE    |               | -     |                      | 4.0   |                       | 33.0  |
| 1       | 22.0                 | 26.0  | 37.0                 | 41.0   | 32.0                | 34.0   | 26.0              | 24.0  | 61.0                  | 41.0   | 2.0                       | 6.0   | 4.2                     | 4.0   | NW                      | N     | -             | 1.8   | 2.0                  | 3.8   | 25.0                  | 31.0  |
| 2       | 19.0                 | 26.0  | 35.0                 | 36.0   | 26.0                | 32.0   | 22.0              | 24.0  | 69.0                  | 49.0   | 2.0                       | 2.0   | 4.3                     | 3.5   | NE                      | N     | 0.8           | -     | 2.8                  | 2.0   | 21.0                  | 32.0  |
| 3       | 21.0                 | 30.0  | 35.0                 | 38.0   | 27.0                | 32.0   | 24.0              | 25.0  | 77.0                  | 55.0   | 2.0                       | 2.0   | 0.8                     | 4.0   | NW                      | S     | -             | -     | 2.0                  | 2.0   | 23.0                  | 32.0  |
| 4       | 22.0                 | 30.0  | 37.0                 | 39.0   | 28.0                | 34.0   | 25.0              | 27.0  | 77.0                  | 56.0   | 4.0                       | 6.0   | 0.8                     | 3.7   | SE                      | SE    | -             | -     | 2.0                  | 2.0   | 25.0                  | 33.0  |
| 5       | 21.0                 | 30.0  | 36.0                 | 42.0   | 29.0                | 34.0   | 24.0              | 27.0  | 64.0                  | 56.0   | 2.0                       | 6.0   | 1.4                     | 4.7   | SE                      | NE    | -             | -     | 2.0                  | 2.0   | 24.0                  | 33.0  |
| 6       | 23.0                 | 27.0  | 37.0                 | 40.0   | 29.0                | 30.0   | 25.0              | 26.0  | 71.0                  | 59.0   | 2.0                       | 2.0   | 1.6                     | 3.7   | W                       | NW    | -             | -     | 2.0                  | 4.0   | 25.0                  | 32.0  |
| 7       | 24.0                 | 31.0  | 39.0                 | 39.0   | 29.0                | 34.0   | 25.0              | 26.0  | 71.0                  | 51.0   | 2.0                       | 2.0   | 2.3                     | 5.3   | NE                      | NE    | -             | -     | 2.8                  | 4.0   | 25.0                  | 32.0  |
| 8       | 24.0                 | 30.0  | 38.0                 | 40.0   | 27.0                | 32.0   | 24.0              | 25.0  | 55.0                  | 55.0   | 2.0                       | 4.0   | 5.1                     | 5.9   | N                       | N     | -             | -     | 3.0                  | 3.0   | 24.0                  | 31.0  |
| 9       | 25.0                 | 27.0  | 37.0                 | 40.0   | 28.0                | 28.0   | 25.0              | 24.0  | 77.0                  | 70.0   | 2.0                       | 4.0   | 1.1                     | 6.1   | E                       | NE    | -             | -     | 2.0                  | 3.0   | 25.0                  | 31.0  |
| 10      | 24.0                 | 28.0  | 39.0                 | 39.0   | 27.0                | 34.0   | 23.0              | 28.0  | 70.0                  | 62.0   | 2.0                       | 4.0   | 3.5                     | 4.0   | NE                      | SW    | -             | -     | 3.0                  | 4.0   | 23.5                  | 33.0  |
| 11      | 26.0                 | 31.0  | 36.0                 | 41.0   | 29.0                | 34.0   | 24.0              | 26.0  | 64.0                  | 51.0   | 4.0                       | 6.0   | 1.5                     | 5.5   | SW                      | SW    | -             | -     | 2.0                  | 4.0   | 26.0                  | 33.0  |
| 12      | 26.0                 | 30.0  | 36.0                 | 37.0   | 29.0                | 34.0   | 25.0              | 26.0  | 71.0                  | 51.0   | 2.0                       | 2.0   | 1.8                     | 5.2   | NW                      | S     | -             | -     | 3.4                  | 4.0   | 26.0                  | 31.5  |
| 13      | 25.0                 | 30.0  | 35.0                 | 40.0   | 29.0                | 35.0   | 24.0              | 27.0  | 64.0                  | 52.0   | 4.0                       | 2.0   | 2.2                     | 4.6   | NE                      | NW    | -             | -     | 2.0                  | 4.0   | 24.5                  | 31.0  |
| 14      | 25.0                 | 31.0  | 37.0                 | 41.0   | 30.0                | 36.0   | 24.0              | 26.0  | 59.0                  | 38.0   | 2.0                       | 6.0   | 1.4                     | 5.8   | SE                      | SE    | -             | -     | 3.0                  | 4.0   | 25.0                  | 30.0  |
| 15      | 23.0                 | 31.0  | 39.0                 | 42.0   | 38.0                | 37.0   | 25.0              | 27.0  | 32.0                  | 44.0   | 2.0                       | 2.0   | 1.8                     | 4.5   | NE                      | NE    | 2.6           | -     | 3.0                  | 4.0   | 24.0                  | 31.0  |
| 16      | 22.0                 | 33.0  | 41.0                 | 43.0   | 32.0                | 36.0   | 25.0              | 28.0  | 55.0                  | 53.0   | 2.0                       | 4.0   | 0.7                     | 4.1   | NE                      | SW    | -             | -     | 3.0                  | 4.0   | 25.5                  | 32.0  |
| 17      | 25.0                 | 27.0  | 38.0                 | 43.0   | 32.0                | 35.0   | 26.0              | 22.0  | 61.0                  | 76.0   | 2.0                       | 6.0   | 0.9                     | 7.0   | NW                      | NE    | -             | 2.2   | 3.0                  | 3.2   | 26.5                  | 29.0  |
| 18      | 22.0                 | 24.0  | 32.0                 | 42.0   | 29.0                | 36.0   | 25.0              | 26.0  | 71.0                  | 43.0   | 2.0                       | 2.0   | 1.7                     | 3.8   | NE                      | NE    | -             | -     | 2.0                  | 2.4   | 25.0                  | 30.0  |
| 19      | 25.0                 | 30.0  | 40.0                 | 42.0   | 31.0                | 36.0   | 26.0              | 27.0  | 66.0                  | 48.0   | 2.0                       | 2.0   | 1.0                     | 3.6   | NW                      | NE    | -             | -     | 2.0                  | 4.0   | 26.0                  | 32.0  |
| 20      | 25.0                 | 32.0  | 40.0                 | 43.0   | 32.0                | 37.0   | 26.0              | 29.0  | 61.0                  | 53.5   | 2.0                       | 2.0   | 0.9                     | 6.1   | NE                      | NW    | -             | -     | 3.0                  | 3.0   | 26.0                  | 34.0  |
| 21      | 26.0                 | 28.0  | 40.0                 | 44.0   | 31.0                | 38.0   | 26.0              | 28.0  | 66.0                  | 45.0   | 2.0                       | 4.0   | 3.5                     | 3.5   | NE                      | SW    | -             | -     | 3.0                  | 4.0   | 26.5                  | 35.0  |
| 22      | 25.0                 | 30.0  | 40.0                 | 44.0   | 33.0                | 38.0   | 26.0              | 29.0  | 50.0                  | 50.0   | 2.0                       | 2.0   | 2.6                     | 3.3   | NE                      | NE    | -             | -     | 4.0                  | 4.0   | 27.0                  | 35.0  |
| 23      | 25.0                 | 32.0  | 40.0                 | 43.0   | 33.0                | 38.0   | 26.0              | 28.0  | 50.0                  | 45.0   | 2.0                       | 2.0   | 3.3                     | 5.6   | NE                      | N     | -             | -     | 4.0                  | 4.0   | 26.0                  | 35.0  |
| 24      | 24.5                 | 32.0  | 38.0                 | 41.0   | 32.0                | 36.0   | 26.0              | 28.0  | 61.0                  | 53.0   | 2.0                       | 4.0   | 1.4                     | 3.5   | SE                      | SW    | -             | -     | 4.0                  | 4.0   | 26.5                  | 34.0  |
| 25      | 25.0                 | 32.0  | 38.0                 | 43.0   | 31.0                | 40.0   | 26.0              | 29.0  | 66.0                  | 42.0   | 2.0                       | 4.0   | 1.3                     | 4.1   | SE                      | W     | -             | -     | 3.0                  | 4.0   | 27.0                  | 35.0  |
| 26      | 22.0                 | 30.0  | 42.0                 | 44.0   | 30.0                | 38.0   | 24.0              | 27.0  | 59.0                  | 40.0   | 2.0                       | 2.0   | 1.0                     | 4.7   | NE                      | W     | -             | -     | 4.0                  | 4.0   | 24.0                  | 34.5  |
| 27      | 25.0                 | 34.0  | 42.0                 | 42.0   | 29.0                | 38.0   | 27.0              | 28.0  | 85.0                  | 45.0   | 4.0                       | 2.0   | 1.4                     | 1.4   | SE                      | N     | -             | -     | 4.0                  | 4.0   | 25.0                  | 35.0  |
| 28      | 26.0                 | 32.0  | 42.0                 | 42.0   | 30.0                | 37.0   | 26.0              | 29.0  | 59.0                  | 53.5   | 2.0                       | 4.0   | 8.4                     | 6.3   | NE                      | SW    | -             | -     | 4.0                  | 6.0   | 26.0                  | 35.0  |
| 29      | 23.0                 | 27.0  | 39.0                 | 40.0   | 26.0                | 35.0   | 24.0              | 29.0  | 84.0                  | 62.5   | 2.0                       | 4.0   | 4.0                     | 7.5   | NE                      | W     | 10.0          | -     | 2.0                  | 3.0   | 25.0                  | 33.0  |
| 30      | 25.0                 |       | 42.0                 |        | 29.0                |        | 27.0              |       | 28.0                  |        | 4.0                       |       | 1.4                     |       | SE                      |       | -             |       | 4.0                  |       | 25.0                  |       |
| Total   | 715.5                | 886.0 | 1147.0               | 1234.0 | 897.0               | 1052.0 | 751.0             | 800.0 | 1904.0                | 1545.5 | 70.0                      | 102.0 | 67.5                    | 139.4 |                         |       | 13.4          | 4.0   | 86.0                 | 107.4 | 753.0                 | 978.0 |
| Average | 23.9                 | 29.5  | 38.2                 | 41.1   | 29.9                | 35.1   | 25.0              | 26.7  | 63.5                  | 51.5   | 2.3                       | 3.4   | 2.2                     | 4.6   |                         |       |               |       |                      |       | 25.1                  | 32.6  |
|         | 26.7                 |       | 39.7                 |        | 32.5                |        | 25.9              |       | 57.5                  |        | 2.9                       |       | 3.4                     |       |                         |       | 17.4          |       | 193.4                |       | 28.9                  |       |

## Twice Daily Climatic Data

Station Code : EMI00H3

Local River/Basin : Ib

Station Name : SUNDERGARH

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| May-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 34.0  |                      | 42.0   |                     | 38.0   |                   | 28.0  |                       | 85.0   |                           | 2.0   |                         | 1.4   |                         | N     |               | -     |                      | 6.0   |                       | 35.0   |
| 1       | 25.0                 | 30.0  | 35.0                 | 38.0   | 28.0                | 34.0   | 25.0              | 29.0  | 77.0                  | 68.0   | 2.0                       | 2.0   | 4.0                     | 6.4   | NW                      | NE    | -             | -     | 2.0                  | 2.0   | 25.0                  | 33.0   |
| 2       | 25.0                 | 35.0  | 36.0                 | 39.0   | 28.0                | 34.0   | 25.0              | 29.0  | 77.0                  | 68.0   | 2.0                       | 2.0   | 2.3                     | 7.1   | S                       | NE    | -             | -     | 2.0                  | 4.0   | 25.0                  | 34.0   |
| 3       | 23.0                 | 24.0  | 32.0                 | 32.0   | 22.0                | 35.0   | 20.0              | 28.0  | 82.0                  | 52.0   | 2.0                       | 2.0   | 6.5                     | 4.7   | NW                      | NE    | 1.6           | -     | 1.6                  | 2.0   | 23.0                  | 32.0   |
| 4       | 25.0                 | 28.0  | 37.0                 | 38.0   | 29.0                | 33.0   | 26.0              | 29.0  | 78.0                  | 73.5   | 2.0                       | 4.0   | 2.1                     | 5.3   | SE                      | SW    | -             | -     | 4.0                  | 2.0   | 26.0                  | 34.0   |
| 5       | 25.0                 | 33.0  | 39.0                 | 43.0   | 30.0                | 36.0   | 27.0              | 30.0  | 78.0                  | 63.0   | 2.0                       | 2.0   | 2.1                     | 6.0   | NE                      | NE    | -             | -     | 4.0                  | 2.0   | 27.0                  | 36.0   |
| 6       | 27.0                 | 34.0  | 41.0                 | 45.0   | 33.0                | 40.0   | 28.0              | 31.0  | 68.5                  | 51.0   | 2.0                       | 2.0   | 1.2                     | 5.9   | W                       | N     | -             | -     | 3.0                  | 3.0   | 28.0                  | 36.0   |
| 7       | 29.0                 | 36.0  | 44.0                 | 45.0   | 35.0                | 40.0   | 29.0              | 30.0  | 62.5                  | 47.0   | 2.0                       | 2.0   | 2.7                     | 4.9   | NE                      | SW    | -             | -     | 4.0                  | 4.0   | 30.0                  | 36.0   |
| 8       | 30.0                 | 36.0  | 43.0                 | 47.0   | 35.0                | 42.0   | 29.0              | 31.0  | 62.5                  | 44.0   | 2.0                       | 2.0   | 1.5                     | 4.7   | W                       | W     | -             | -     | 2.0                  | 4.6   | 30.0                  | 37.0   |
| 9       | 28.0                 | 33.0  | 45.0                 | 45.0   | 33.5                | 42.0   | 28.0              | 31.0  | 64.5                  | 44.0   | 2.0                       | 2.0   | 1.3                     | 5.2   | NE                      | SW    | -             | -     | 4.0                  | 4.0   | 28.0                  | 36.0   |
| 10      | 30.0                 | 29.0  | 45.0                 | 45.0   | 34.0                | 42.0   | 28.0              | 31.0  | 62.0                  | 44.0   | 2.0                       | 2.0   | 1.9                     | 2.4   | SW                      | NW    | -             | -     | 4.0                  | 5.0   | 28.0                  | 37.0   |
| 11      | 29.0                 | 33.0  | 44.0                 | 45.0   | 32.0                | 39.0   | 28.0              | 31.0  | 73.0                  | 58.0   | 2.0                       | 2.0   | 6.3                     | 6.5   | NE                      | SW    | -             | -     | 4.0                  | 4.0   | 28.0                  | 36.0   |
| 12      | 27.0                 | 33.0  | 40.0                 | 45.0   | 31.0                | 42.0   | 26.0              | 32.0  | 66.0                  | 48.0   | 2.0                       | 2.0   | 2.1                     | 4.8   | W                       | W     | -             | -     | 4.0                  | 4.0   | 28.0                  | 37.0   |
| 13      | 26.0                 | 33.0  | 43.0                 | 44.0   | 31.0                | 38.0   | 27.0              | 30.0  | 69.0                  | 54.0   | 2.0                       | 2.0   | 2.8                     | 6.4   | NE                      | NW    | -             | -     | 4.0                  | 5.0   | 28.0                  | 36.0   |
| 14      | 24.0                 | 23.0  | 41.0                 | 35.0   | 25.0                | 31.0   | 24.0              | 26.0  | 92.0                  | 66.0   | 2.0                       | 2.0   | 5.0                     | 4.5   | SE                      | SE    | 3.2           | -     | 4.2                  | 1.0   | 25.0                  | 31.0   |
| 15      | 24.0                 | 29.0  | 36.0                 | 40.0   | 28.0                | 34.0   | 25.0              | 29.0  | 77.0                  | 68.0   | 2.0                       | 2.0   | 3.0                     | 4.9   | E                       | SW    | -             | -     | 2.0                  | 4.0   | 25.0                  | 34.0   |
| 16      | 26.0                 | 34.0  | 37.0                 | 42.0   | 33.0                | 39.0   | 28.0              | 31.0  | 67.5                  | 55.0   | 4.0                       | 2.0   | 0.9                     | 5.9   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 28.0                  | 35.0   |
| 17      | 25.0                 | 30.0  | 41.0                 | 44.0   | 29.0                | 38.0   | 26.0              | 30.0  | 78.0                  | 54.0   | 2.0                       | 2.0   | 3.1                     | 4.1   | SW                      | NE    | 5.8           | -     | 1.8                  | 4.0   | 27.0                  | 35.0   |
| 18      | 28.0                 | 33.0  | 40.0                 | 43.0   | 31.0                | 38.0   | 27.0              | 31.0  | 69.0                  | 59.0   | 2.0                       | 2.0   | 2.2                     | 5.7   | SE                      | NE    | -             | -     | 4.0                  | 4.0   | 28.0                  | 35.0   |
| 19      | 25.0                 | 32.0  | 40.0                 | 41.0   | 30.0                | 37.0   | 26.0              | 31.0  | 72.0                  | 63.5   | 2.0                       | 2.0   | 4.4                     | 4.8   | N                       | SW    | -             | -     | 4.0                  | 4.0   | 28.0                  | 36.0   |
| 20      | 27.0                 | 33.0  | 39.0                 | 42.0   | 32.0                | 34.0   | 29.0              | 30.0  | 79.0                  | 74.0   | 2.0                       | 4.0   | 1.3                     | 8.7   | NW                      | NE    | -             | 4.2   | 2.0                  | 4.2   | 30.0                  | 31.0   |
| 21      | 25.0                 | 30.0  | 42.0                 | 42.0   | 28.0                | 34.0   | 26.0              | 30.0  | 85.0                  | 74.0   | 2.0                       | 2.0   | 2.7                     | 5.9   | W                       | SE    | 4.8           | -     | 0.8                  | 5.0   | 27.0                  | 34.0   |
| 22      | 27.0                 | 28.0  | 40.0                 | 43.0   | 30.0                | 30.0   | 28.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 1.8                     | 4.9   | S                       | SE    | -             | 4.4   | 2.0                  | 0.4   | 28.0                  | 30.0   |
| 23      | 26.0                 | 31.0  | 32.0                 | 31.0   | 29.0                | 32.0   | 26.0              | 29.0  | 78.0                  | 78.0   | 2.0                       | 2.0   | 1.2                     | 8.6   | S                       | SE    | -             | -     | 2.0                  | 6.0   | 27.0                  | 32.0   |
| 24      | 26.0                 | 32.0  | 34.0                 | 40.0   | 30.0                | 36.0   | 27.0              | 31.0  | 78.0                  | 63.0   | 2.0                       | 2.0   | 1.4                     | 6.4   | E                       | SE    | -             | -     | 2.0                  | 4.0   | 28.0                  | 34.0   |
| 25      | 25.0                 | 32.0  | 39.0                 | 40.0   | 29.0                | 38.0   | 27.0              | 32.0  | 85.0                  | 64.0   | 2.0                       | 2.0   | 4.0                     | 4.4   | SE                      | SE    | 17.2          | -     | 3.2                  | 4.0   | 27.5                  | 36.0   |
| 26      | 26.0                 | 28.0  | 40.0                 | 41.0   | 32.0                | 37.0   | 28.0              | 31.0  | 73.0                  | 63.5   | 2.0                       | 2.0   | 2.9                     | 4.8   | E                       | S     | -             | -     | 4.0                  | 3.0   | 28.0                  | 36.0   |
| 27      | 26.0                 | 31.0  | 40.0                 | 40.0   | 30.0                | 36.0   | 28.0              | 31.0  | 85.0                  | 63.0   | 2.0                       | 4.0   | 2.1                     | 8.0   | S                       | SE    | -             | -     | 2.0                  | 4.0   | 29.0                  | 35.0   |
| 28      | 28.0                 | 32.0  | 38.0                 | 42.0   | 32.0                | 37.0   | 29.0              | 32.0  | 79.0                  | 69.5   | 2.0                       | 4.0   | 1.8                     | 7.2   | SE                      | S     | -             | -     | 3.0                  | 4.0   | 30.0                  | 35.0   |
| 29      | 26.0                 | 28.0  | 42.0                 | 42.0   | 29.0                | 36.0   | 26.0              | 32.0  | 78.0                  | 75.0   | 2.0                       | 2.0   | 6.6                     | 4.5   | NE                      | NE    | 13.0          | -     | 3.0                  | 4.0   | 27.0                  | 36.0   |
| 30      | 25.0                 | 31.0  | 39.0                 | 41.0   | 29.0                | 36.0   | 27.0              | 31.0  | 85.0                  | 78.0   | 2.0                       | 4.0   | 4.8                     | 5.6   | S                       | S     | 6.4           | -     | 2.4                  | 4.0   | 27.0                  | 36.0   |
| 31      | 25.0                 |       | 38.0                 |        | 24.0                |        | 23.0              |       | 91.0                  |        | 2.0                       |       | 3.0                     |       | SE                      |       | 27.4          |       | 1.4                  |       | 25.0                  |        |
| Total   | 813.0                | 968.0 | 1222.0               | 1282.0 | 931.5               | 1138.0 | 826.0             | 935.0 | 2356.5                | 1952.0 | 64.0                      | 72.0  | 88.9                    | 170.6 |                         |       | 79.4          | 8.6   | 89.4                 | 115.2 | 848.5                 | 1076.0 |
| Average | 26.2                 | 31.2  | 39.4                 | 41.4   | 30.0                | 36.7   | 26.6              | 30.2  | 76.0                  | 63.0   | 2.1                       | 2.3   | 2.9                     | 5.5   |                         |       |               |       |                      |       | 27.4                  | 34.7   |
|         | 28.7                 |       | 40.4                 |        | 33.4                |        | 28.4              |       | 69.5                  |        | 2.2                       |       | 4.2                     |       |                         |       | 88.0          |       | 204.6                |       | 31.0                  |        |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| June 2017 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|-----------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day       | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM     |                      | 31.0  |                      | 42.0   |                     | 37.0   |                   | 23.0  |                       | 50.0   |                           | -     |                         | 0.5   |                         | E     |               | -     |                      | 3.6   |                       | 33.0   |
| 1         | 29.0                 | 38.0  | 38.0                 | 45.0   | 31.0                | 38.0   | 28.0              | 27.0  | 78.5                  | 40.0   | -                         | 2.0   | 0.9                     | 3.3   | NE                      | NE    | -             | -     | 3.7                  | 4.4   | 29.5                  | 37.0   |
| 2         | 30.0                 | 36.0  | 39.0                 | 43.0   | 32.0                | 37.0   | 28.0              | 27.0  | 73.0                  | 44.0   | -                         | -     | 1.1                     | 5.0   | NE                      | NW    | -             | -     | 3.8                  | 4.0   | 30.0                  | 37.0   |
| 3         | 30.0                 | 31.0  | 38.0                 | 45.0   | 34.0                | 37.0   | 26.0              | 28.0  | 51.0                  | 49.0   | 2.0                       | -     | 1.1                     | 3.6   | SE                      | NE    | -             | -     | 4.0                  | 4.2   | 29.0                  | 36.0   |
| 4         | 31.0                 | 37.0  | 38.0                 | 46.0   | 36.0                | 38.0   | 27.0              | 30.0  | 48.0                  | 54.0   | 2.0                       | -     | 1.0                     | 5.0   | SW                      | SE    | -             | -     | 4.0                  | 4.2   | 32.0                  | 38.0   |
| 5         | 34.0                 | 34.0  | 40.0                 | 47.0   | 37.0                | 38.0   | 29.0              | 28.0  | 53.5                  | 45.0   | -                         | 2.0   | 1.2                     | 3.6   | E                       | SE    | -             | -     | 3.8                  | 4.6   | 32.0                  | 35.0   |
| 6         | 29.0                 | 34.0  | 40.0                 | 43.0   | 33.0                | 38.0   | 27.0              | 27.0  | 61.5                  | 40.0   | 2.0                       | 2.0   | 2.5                     | 4.8   | W                       | SW    | -             | -     | 3.9                  | 4.2   | 32.0                  | 35.0   |
| 7         | 26.0                 | 31.0  | 39.0                 | 40.5   | 30.0                | 34.0   | 26.0              | 27.0  | 72.0                  | 56.0   | 2.0                       | 2.0   | 2.2                     | 3.1   | NE                      | NE    | -             | -     | 2.1                  | 3.6   | 28.0                  | 32.0   |
| 8         | 28.0                 | 31.0  | 37.0                 | 41.0   | 30.0                | 34.0   | 26.0              | 25.0  | 72.0                  | 46.0   | -                         | 2.0   | 1.5                     | 3.3   | E                       | NE    | -             | -     | 3.6                  | 3.8   | 28.0                  | 35.0   |
| 9         | 29.0                 | 34.0  | 37.0                 | 42.0   | 33.0                | 34.0   | 27.0              | 27.0  | 61.5                  | 56.0   | -                         | 2.0   | 0.9                     | 4.5   | NE                      | NE    | -             | -     | 3.8                  | 4.6   | 29.0                  | 35.0   |
| 10        | 30.0                 | 34.0  | 36.0                 | 43.0   | 32.0                | 33.0   | 27.0              | 25.0  | 67.0                  | 50.0   | -                         | -     | 0.6                     | 4.2   | NE                      | E     | -             | -     | 2.8                  | 3.2   | 30.0                  | 32.0   |
| 11        | 29.0                 | 29.0  | 35.0                 | 40.0   | 27.0                | 32.0   | 25.0              | 26.0  | 81.0                  | 61.0   | 2.0                       | 2.0   | 1.3                     | 5.0   | SW                      | SE    | -             | -     | 2.8                  | 2.6   | 29.0                  | 31.0   |
| 12        | 27.0                 | 32.0  | 32.0                 | 39.0   | 26.0                | 34.0   | 25.0              | 28.0  | 92.0                  | 62.0   | -                         | -     | 1.6                     | 5.1   | SW                      | SW    | 1.4           | -     | 2.2                  | 2.2   | 28.0                  | 33.0   |
| 13        | 27.0                 | 31.0  | 35.0                 | 38.0   | 30.0                | 34.0   | 26.0              | 27.0  | 72.0                  | 56.0   | -                         | -     | 1.7                     | 2.6   | NW                      | SE    | 1.0           | -     | 2.2                  | 2.7   | 28.0                  | 34.0   |
| 14        | 29.0                 | 31.0  | 36.0                 | 40.0   | 30.0                | 36.0   | 26.0              | 27.0  | 72.0                  | 48.0   | -                         | -     | 1.0                     | 3.1   | NW                      | SW    | -             | -     | 2.6                  | 2.4   | 29.0                  | 36.0   |
| 15        | 30.0                 | 32.0  | 40.0                 | 43.0   | 34.0                | 31.0   | 28.0              | 25.0  | 62.0                  | 60.0   | -                         | -     | 1.1                     | 4.0   | SW                      | SW    | -             | -     | 2.4                  | 2.8   | 31.0                  | 35.0   |
| 16        | 25.0                 | 25.0  | 32.0                 | 38.0   | 29.0                | 32.0   | 26.0              | 28.0  | 78.0                  | 73.0   | -                         | -     | 2.2                     | 2.0   | SE                      | SE    | 23.8          | -     | 2.8                  | 2.0   | 30.0                  | 33.0   |
| 17        | 29.0                 | 32.0  | 35.0                 | 42.0   | 31.0                | 36.0   | 27.0              | 28.0  | 72.5                  | 53.0   | -                         | -     | 0.8                     | 2.8   | SE                      | SW    | -             | -     | 2.0                  | 2.8   | 29.0                  | 33.0   |
| 18        | 29.0                 | 34.0  | 39.0                 | 42.0   | 32.0                | 40.0   | 26.0              | 29.0  | 61.0                  | 42.0   | -                         | -     | 0.9                     | 2.8   | SW                      | N     | -             | -     | 2.2                  | 3.0   | 30.0                  | 36.0   |
| 19        | 30.0                 | 37.0  | 38.0                 | 39.0   | 27.0                | 34.0   | 25.0              | 29.0  | 84.0                  | 68.0   | -                         | -     | 2.7                     | 2.9   | SE                      | SE    | 0.4           | -     | 2.4                  | 2.4   | 27.0                  | 36.0   |
| 20        | 29.0                 | 34.0  | 36.0                 | 42.0   | 32.0                | 34.0   | 28.0              | 27.0  | 73.0                  | 56.0   | 2.0                       | 2.0   | 1.5                     | 4.6   | SW                      | SE    | -             | -     | 2.6                  | 2.8   | 30.0                  | 39.0   |
| 21        | 25.0                 | 33.0  | 37.0                 | 38.0   | 26.0                | 34.0   | 25.0              | 29.0  | 92.0                  | 84.0   | 2.0                       | -     | 2.3                     | 3.2   | SW                      | E     | 61.4          | -     | 2.8                  | 2.2   | 30.0                  | 34.0   |
| 22        | 24.0                 | 27.0  | 35.0                 | 37.0   | 26.0                | 32.0   | 25.0              | 28.0  | 92.0                  | 73.0   | -                         | -     | 0.8                     | 2.5   | SW                      | E     | 23.2          | -     | 2.2                  | 2.0   | 26.0                  | 35.0   |
| 23        | 25.0                 | 29.0  | 36.0                 | 39.0   | 27.0                | 32.0   | 25.0              | 27.0  | 84.0                  | 67.0   | 2.0                       | -     | 2.3                     | 1.7   | SE                      | W     | -             | -     | 2.4                  | 2.1   | 26.0                  | 34.0   |
| 24        | 29.0                 | 30.0  | 34.0                 | 38.0   | 29.0                | 32.0   | 27.0              | 28.0  | 85.0                  | 73.0   | -                         | -     | 0.2                     | 1.6   | SE                      | E     | -             | -     | 2.0                  | 2.4   | 29.0                  | 32.0   |
| 25        | 25.0                 | 25.0  | 35.0                 | 36.0   | 24.0                | 26.0   | 23.0              | 25.0  | 91.0                  | 92.0   | -                         | -     | 1.3                     | 0.6   | NE                      | E     | 22.4          | 5.8   | 1.4                  | 1.8   | 25.0                  | 28.0   |
| 26        | 25.0                 | 25.0  | 35.0                 | 32.0   | 25.0                | 24.0   | 24.0              | 23.0  | 91.0                  | 91.0   | -                         | -     | 0.1                     | 0.7   | SW                      | E     | 0.8           | 2.6   | 1.2                  | 1.0   | 26.0                  | 24.0   |
| 27        | 26.0                 | 28.0  | 29.0                 | 31.0   | 27.0                | 28.0   | 26.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 0.7   | SW                      | NE    | 0.4           | 0.4   | 1.0                  | 1.2   | 27.0                  | 30.0   |
| 28        | 26.0                 | 26.0  | 29.0                 | 29.0   | 25.0                | 27.0   | 24.0              | 26.0  | 91.0                  | 92.0   | -                         | -     | 0.7                     | 0.3   | E                       | SE    | 9.2           | 1.4   | 0.8                  | 0.7   | 26.0                  | 29.0   |
| 29        | 26.0                 | 27.0  | 29.0                 | 32.0   | 25.0                | 28.0   | 24.0              | 26.0  | 91.0                  | 85.0   | -                         | -     | 0.3                     | 1.4   | E                       | SW    | 1.0           | 2.6   | 1.2                  | 1.0   | 26.0                  | 28.0   |
| 30        | 26.0                 |       | 31.0                 |        | 26.0                |        | 25.0              |       | 92.0                  |        | -                         |       | 0.6                     |       | E                       |       | 22.2          |       | 0.6                  |       | 25.0                  |        |
| Total     | 837.0                | 938.0 | 1070.0               | 1192.5 | 886.0               | 1004.0 | 781.0             | 807.0 | 2286.5                | 1858.0 | 16.0                      | 16.0  | 36.4                    | 88.4  |                         |       | 167.2         | 12.8  | 75.3                 | 84.5  | 856.5                 | 1005.0 |
| Average   | 27.9                 | 31.3  | 35.7                 | 39.8   | 29.5                | 33.5   | 26.0              | 26.9  | 76.2                  | 61.9   | 0.5                       | 0.5   | 1.2                     | 2.9   |                         |       |               |       |                      |       | 28.6                  | 33.5   |
|           | 29.6                 |       | 37.7                 |        | 31.5                |        | 26.5              |       | 69.1                  |        | 0.5                       |       | 2.1                     |       |                         |       | 180.0         |       | 159.8                |       | 31.0                  |        |

## Twice Daily Climatic Data

Station Code : EMG00E5

Station Name : SALEBHATA

Local River/Basin : Ong

Sub-Division : MMSD II,CWC,Burla

July 2017

- 0.0 .. N.A.

|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 27.0  |                      | 32.0   |                     | 29.0  |                   | 27.0  |                       | 85.0   |                           | -     |                         | 3.4   |                         | N     |               | -     |                      | 2.0   |                       | 32.0   |
| 1       | 26.0                 | 27.0  | 29.0                 | 35.0   | 27.0                | 26.0  | 26.0              | 25.0  | 92.0                  | 92.0   | -                         | 2.0   | 0.1                     | 2.4   | SW                      | E     | -             | 4.6   | 2.1                  | 2.2   | 27.0                  | 32.0   |
| 2       | 26.0                 | 25.0  | 28.0                 | 34.0   | 27.0                | 24.0  | 26.0              | 23.0  | 92.0                  | 91.0   | -                         | -     | 0.2                     | 0.8   | NE                      | E     | 3.0           | 37.0  | 2.6                  | 2.8   | 27.0                  | 28.0   |
| 3       | 25.0                 | 26.0  | 27.0                 | 34.0   | 27.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 1.1   | NE                      | NE    | -             | -     | 2.0                  | 2.6   | 26.5                  | 28.0   |
| 4       | 27.0                 | 28.0  | 30.0                 | 36.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.5                     | 1.5   | NE                      | SW    | -             | -     | 2.2                  | 2.8   | 27.0                  | 33.0   |
| 5       | 28.0                 | 29.0  | 33.0                 | 36.0   | 28.5                | 32.0  | 27.0              | 29.0  | 88.5                  | 79.0   | -                         | -     | 0.0                     | 1.0   | SW                      | SE    | -             | -     | 2.0                  | 2.8   | 28.0                  | 35.0   |
| 6       | 26.0                 | 27.0  | 35.0                 | 35.0   | 26.5                | 28.5  | 26.0              | 26.0  | 96.0                  | 81.0   | -                         | -     | 0.4                     | 0.7   | NE                      | NE    | 24.2          | -     | 2.2                  | 2.7   | 27.0                  | 35.0   |
| 7       | 27.0                 | 27.0  | 30.0                 | 33.0   | 28.0                | 31.0  | 27.0              | 28.0  | 92.0                  | 78.0   | -                         | -     | 0.1                     | 0.7   | NE                      | NE    | -             | -     | 2.4                  | 2.9   | 28.0                  | 35.0   |
| 8       | 27.0                 | 28.0  | 32.0                 | 37.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | -     | 2.2                  | 2.6   | 29.0                  | 35.0   |
| 9       | 26.0                 | 27.5  | 32.0                 | 37.0   | 28.0                | 26.5  | 26.0              | 25.0  | 85.0                  | 88.0   | -                         | -     | 0.5                     | 1.0   | NE                      | SE    | -             | 2.8   | 2.4                  | 2.8   | 29.0                  | 32.5   |
| 10      | 26.0                 | 28.0  | 30.0                 | 35.0   | 27.0                | 28.0  | 26.5              | 27.0  | 96.0                  | 92.0   | -                         | -     | 0.3                     | 0.3   | SW                      | NE    | 0.6           | -     | 1.8                  | 2.4   | 27.0                  | 34.0   |
| 11      | 27.0                 | 28.0  | 33.0                 | 38.0   | 28.0                | 30.0  | 27.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.0                     | 1.1   | NE                      | N     | -             | -     | 2.0                  | 2.6   | 26.5                  | 35.0   |
| 12      | 25.0                 | 27.0  | 32.0                 | 36.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 0.6                     | 1.2   | SW                      | NW    | 10.2          | -     | 2.2                  | 2.5   | 27.0                  | 34.0   |
| 13      | 25.0                 | 25.0  | 29.0                 | 34.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.5                     | 1.8   | NE                      | W     | -             | -     | 2.1                  | 2.6   | 27.0                  | 34.5   |
| 14      | 25.0                 | 27.0  | 34.0                 | 35.0   | 27.0                | 31.0  | 25.0              | 28.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 1.0   | W                       | NE    | -             | -     | 2.0                  | 2.7   | 27.0                  | 35.0   |
| 15      | 26.0                 | 27.0  | 31.0                 | 35.0   | 26.5                | 31.0  | 25.0              | 28.0  | 88.0                  | 78.0   | -                         | -     | 0.4                     | 1.3   | NE                      | S     | -             | -     | 2.0                  | 2.4   | 27.0                  | 34.0   |
| 16      | 27.0                 | 31.0  | 32.0                 | 36.0   | 30.0                | 30.0  | 27.0              | 28.0  | 78.0                  | 85.0   | -                         | -     | 0.1                     | 1.6   | SW                      | SE    | -             | -     | 2.1                  | 2.4   | 29.0                  | 35.0   |
| 17      | 27.0                 | 29.0  | 33.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.2                     | 0.7   | NE                      | SW    | 0.6           | -     | 1.8                  | 2.2   | 29.5                  | 34.0   |
| 18      | 26.0                 | 31.0  | 32.0                 | 34.0   | 29.0                | 26.0  | 26.0              | 25.0  | 78.0                  | 92.0   | -                         | -     | 0.8                     | 1.5   | SW                      | NE    | -             | -     | 1.7                  | 1.5   | 29.0                  | 33.0   |
| 19      | 26.0                 | 26.0  | 29.0                 | 30.0   | 24.0                | 26.0  | 23.5              | 25.0  | 96.0                  | 92.0   | -                         | -     | 0.6                     | 1.6   | SW                      | SW    | 14.4          | 0.8   | 1.4                  | 1.2   | 25.5                  | 32.5   |
| 20      | 25.0                 | 26.0  | 28.0                 | 31.0   | 24.0                | 27.0  | 23.5              | 26.0  | 91.0                  | 92.0   | -                         | -     | 0.4                     | 1.0   | NE                      | NW    | 3.4           | 3.2   | 1.2                  | 1.4   | 26.0                  | 30.0   |
| 21      | 25.0                 | 27.0  | 29.0                 | 34.0   | 26.5                | 29.0  | 26.0              | 27.0  | 96.0                  | 85.0   | -                         | -     | 0.2                     | 0.7   | E                       | NE    | 4.0           | -     | 1.2                  | 1.3   | 26.0                  | 32.0   |
| 22      | 27.0                 | 30.0  | 31.0                 | 36.0   | 30.0                | 29.0  | 27.0              | 28.0  | 78.0                  | 92.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | -     | 1.1                  | 1.0   | 28.0                  | 33.0   |
| 23      | 27.0                 | 30.0  | 32.0                 | 36.0   | 30.0                | 29.0  | 26.0              | 27.0  | 72.0                  | 78.0   | -                         | -     | 0.5                     | 1.6   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 29.0                  | 33.0   |
| 24      | 27.0                 | 29.0  | 32.0                 | 40.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.2                     | 0.9   | SW                      | NE    | -             | -     | 1.2                  | 1.1   | 29.0                  | 33.0   |
| 25      | 28.0                 | 32.0  | 32.0                 | 37.0   | 30.0                | 31.0  | 27.0              | 27.0  | 78.0                  | 72.5   | -                         | -     | 0.1                     | 1.6   | SW                      | NE    | -             | -     | 1.0                  | 1.2   | 30.0                  | 33.5   |
| 26      | 27.0                 | 30.0  | 32.0                 | 38.0   | 30.0                | 31.0  | 27.0              | 27.0  | 78.0                  | 72.5   | -                         | -     | 0.1                     | 1.6   | W                       | NE    | -             | -     | 1.1                  | 1.3   | 29.0                  | 34.0   |
| 27      | 26.0                 | 28.0  | 32.0                 | 38.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 1.9   | NE                      | NE    | -             | -     | 1.2                  | 1.4   | 29.0                  | 34.0   |
| 28      | 27.0                 | 30.0  | 35.0                 | 37.0   | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 1.4   | NNE                     | NE    | -             | -     | 1.8                  | 1.6   | 28.5                  | 34.5   |
| 29      | 25.0                 | 27.0  | 34.0                 | 36.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.4                     | 0.6   | SE                      | NE    | 17.6          | -     | 2.0                  | 1.8   | 26.0                  | 35.0   |
| 30      | 25.0                 | 27.0  | 31.0                 | 35.0   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.8                     | 0.5   | NE                      | NE    | 1.4           | -     | 1.8                  | 1.9   | 28.0                  | 35.0   |
| 31      | 25.0                 |       | 34.0                 |        | 26.0                |       | 25.0              |       | 92.0                  |        | -                         |       | 0.4                     |       | SE                      |       | -             |       | 2.0                  |       | 26.0                  |        |
| Total   | 812.0                | 866.5 | 973.0                | 1094.0 | 859.0               | 900.0 | 805.5             | 833.0 | 2699.5                | 2595.0 | -                         | 2.0   | 8.6                     | 38.1  |                         |       | 79.4          | 48.4  | 55.8                 | 63.7  | 857.5                 | 1033.5 |
| Average | 26.2                 | 28.0  | 31.4                 | 35.3   | 27.7                | 29.0  | 26.0              | 26.9  | 87.1                  | 83.7   | -                         | 0.1   | 0.3                     | 1.2   |                         |       |               |       |                      |       | 27.7                  | 33.3   |
|         | 27.1                 |       | 33.3                 |        | 28.4                |       | 26.4              |       | 85.4                  |        | 0.0                       |       | 0.8                     |       |                         |       | 127.8         |       | 119.5                |       | 30.5                  |        |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| August 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|             | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day         | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM       |                      | 27.0  |                      | 36.0   |                     | 29.0  |                   | 27.0  |                       | 85.0   |                           | -     |                         | 0.6   |                         | NE    |               | -     |                      | 1.6   |                       | 35.0  |
| 1           | 26.0                 | 30.0  | 29.0                 | 34.0   | 29.0                | 28.0  | 27.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.3                     | 3.4   | NE                      | NE    | -             | -     | 2.0                  | 2.6   | 27.0                  | 33.0  |
| 2           | 27.0                 | 26.0  | 29.0                 | 36.0   | 29.0                | 25.5  | 27.0              | 25.0  | 85.0                  | 86.0   | -                         | 1.0   | 0.1                     | 3.0   | SW                      | NE    | -             | 35.2  | 2.1                  | 2.0   | 28.5                  | 30.0  |
| 3           | 26.0                 | 27.0  | 28.0                 | 34.0   | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | 2.0                       | -     | 3.1                     | 0.1   | SW                      | SW    | 3.0           | -     | 1.8                  | 1.7   | 28.0                  | 32.0  |
| 4           | 27.0                 | 29.0  | 31.0                 | 32.0   | 28.0                | 29.5  | 26.0              | 27.0  | 85.0                  | 80.5   | -                         | -     | 0.1                     | 4.0   | NW                      | SW    | -             | -     | 2.0                  | 2.0   | 28.0                  | 32.0  |
| 5           | 28.0                 | 28.0  | 31.0                 | 32.0   | 27.0                | 27.0  | 25.5              | 26.0  | 88.0                  | 92.0   | -                         | -     | 0.2                     | 2.7   | SW                      | SW    | -             | 4.4   | 1.8                  | 1.4   | 27.5                  | 31.0  |
| 6           | 26.0                 | 27.0  | 28.0                 | 32.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.3                     | 0.6   | SW                      | SW    | 2.2           | -     | 2.0                  | 2.2   | 27.0                  | 32.0  |
| 7           | 27.0                 | 28.0  | 31.0                 | 33.0   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.8                     | 0.7   | SW                      | E     | 4.6           | 0.8   | 2.4                  | 2.8   | 28.0                  | 32.0  |
| 8           | 27.0                 | 27.0  | 31.0                 | 34.0   | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 1.0   | NE                      | N     | -             | -     | 2.2                  | 2.6   | 29.0                  | 33.0  |
| 9           | 27.0                 | 28.0  | 31.0                 | 31.0   | 28.0                | 26.0  | 26.0              | 25.5  | 85.0                  | 96.0   | -                         | -     | 0.2                     | 1.7   | NE                      | SE    | -             | 14.0  | 2.4                  | 2.5   | 31.0                  | 32.0  |
| 10          | 26.0                 | 26.0  | 28.0                 | 34.0   | 26.0                | 28.0  | 24.0              | 27.0  | 84.0                  | 92.0   | -                         | -     | 0.7                     | 3.6   | SW                      | E     | 0.4           | -     | 2.7                  | 2.5   | 39.0                  | 30.0  |
| 11          | 26.0                 | 29.0  | 30.0                 | 34.0   | 27.0                | 30.0  | 25.0              | 27.0  | 84.0                  | 78.0   | -                         | 2.0   | 0.2                     | 3.0   | NE                      | NE    | -             | -     | 2.0                  | 2.6   | 29.0                  | 32.0  |
| 12          | 27.0                 | 26.0  | 32.0                 | 33.0   | 28.0                | 25.0  | 26.0              | 24.5  | 85.0                  | 96.0   | -                         | -     | 0.4                     | 3.4   | SW                      | SE    | -             | 7.8   | 2.1                  | 2.8   | 29.5                  | 30.0  |
| 13          | 25.0                 | 27.0  | 29.0                 | 31.0   | 28.0                | 26.0  | 27.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | 0.4                     | 1.5   | NE                      | NE    | 27.8          | 2.6   | 1.8                  | 2.8   | 27.0                  | 31.5  |
| 14          | 24.0                 | 26.0  | 27.0                 | 33.0   | 25.0                | 25.0  | 24.0              | 24.5  | 92.0                  | 96.0   | -                         | -     | 0.6                     | 1.7   | NE                      | SE    | 1.6           | 2.2   | 2.0                  | 2.6   | 26.0                  | 29.0  |
| 15          | 26.0                 | 27.0  | 28.0                 | 34.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 1.8   | SW                      | NE    | -             | -     | 2.2                  | 2.8   | 27.0                  | 31.0  |
| 16          | 26.0                 | 27.0  | 29.0                 | 37.0   | 28.0                | 30.0  | 27.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.7                     | 1.4   | SE                      | NE    | -             | -     | 2.4                  | 2.6   | 28.0                  | 33.0  |
| 17          | 25.0                 | 25.0  | 32.0                 | 33.0   | 25.0                | 28.0  | 24.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | 0.6                     | 0.6   | SW                      | NE    | 18.0          | -     | 2.0                  | 2.8   | 26.0                  | 31.0  |
| 18          | 24.5                 | 26.0  | 30.0                 | 33.0   | 25.5                | 28.0  | 25.0              | 26.0  | 96.0                  | 85.0   | -                         | -     | 1.0                     | 0.9   | NE                      | NE    | 38.0          | 0.6   | 1.8                  | 1.8   | 26.0                  | 31.0  |
| 19          | 25.0                 | 26.0  | 30.0                 | 34.0   | 25.5                | 28.0  | 25.0              | 26.0  | 96.0                  | 85.0   | 2.0                       | 2.0   | 1.1                     | 3.0   | NE                      | NE    | 8.6           | 0.6   | 2.0                  | 2.4   | 26.0                  | 31.0  |
| 20          | 26.0                 | 28.0  | 29.0                 | 34.0   | 27.0                | 26.0  | 25.0              | 25.0  | 84.0                  | 92.0   | -                         | 2.0   | 0.8                     | 5.1   | SW                      | SE    | -             | -     | 2.4                  | 2.6   | 26.0                  | 32.0  |
| 21          | 26.0                 | 28.0  | 30.0                 | 33.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.4                     | 0.7   | NE                      | NE    | 4.4           | -     | 2.2                  | 2.7   | 27.0                  | 33.0  |
| 22          | 26.0                 | 26.0  | 32.0                 | 33.0   | 27.0                | 27.0  | 25.5              | 26.0  | 88.0                  | 92.0   | -                         | 2.0   | 0.0                     | 2.0   | SW                      | SW    | -             | 2.5   | 2.0                  | 1.4   | 29.0                  | 30.0  |
| 23          | 26.0                 | 27.0  | 29.0                 | 34.0   | 28.0                | 28.0  | 26.0              | 27.0  | 85.0                  | 92.0   | -                         | -     | 0.1                     | 1.6   | NE                      | NE    | -             | 22.8  | 1.6                  | 2.8   | 27.0                  | 31.0  |
| 24          | 25.0                 | 27.0  | 30.0                 | 34.0   | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | -                         | 2.0   | 1.1                     | 2.4   | NE                      | SW    | 16.2          | -     | 1.8                  | 2.9   | 26.5                  | 31.0  |
| 25          | 26.0                 | 27.0  | 28.0                 | 34.0   | 26.5                | 30.0  | 26.0              | 28.0  | 96.0                  | 85.0   | -                         | -     | 0.4                     | 0.8   | NE                      | NE    | 2.0           | -     | 2.4                  | 2.7   | 27.0                  | 33.0  |
| 26          | 26.5                 | 28.0  | 31.0                 | 33.0   | 29.0                | 27.0  | 27.0              | 26.0  | 85.0                  | 92.0   | -                         | -     | 0.1                     | 0.8   | SW                      | SW    | -             | 13.0  | 2.2                  | 2.0   | 28.0                  | 31.0  |
| 27          | 27.0                 | 29.0  | 31.0                 | 33.0   | 29.0                | 28.0  | 27.0              | 27.0  | 85.0                  | 92.0   | -                         | 2.0   | 0.1                     | 0.6   | NE                      | NE    | -             | 0.2   | 1.8                  | 1.4   | 28.0                  | 30.5  |
| 28          | 27.0                 | 28.0  | 30.0                 | 31.0   | 26.0                | 28.0  | 25.5              | 26.0  | 96.0                  | 85.0   | -                         | -     | 0.8                     | 1.0   | NE                      | SE    | -             | 22.8  | 2.2                  | 1.8   | 28.0                  | 25.5  |
| 29          | 25.0                 | 26.0  | 27.0                 | 32.0   | 26.0                | 28.0  | 25.5              | 26.0  | 96.0                  | 85.0   | -                         | -     | 0.2                     | 1.6   | NE                      | NE    | 0.6           | -     | 2.2                  | 1.8   | 26.0                  | 32.0  |
| 30          | 26.0                 | 28.0  | 30.0                 | 35.0   | 27.0                | 30.0  | 26.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.8   | NE                      | E     | -             | -     | 2.4                  | 1.9   | 27.0                  | 34.0  |
| 31          | 27.0                 |       | 33.0                 |        | 28.0                |       | 28.0              |       | 85.0                  |        | -                         |       | 0.1                     |       | NE                      |       | -             |       | 2.2                  |       | 28.0                  |       |
| Total       | 809.0                | 844.0 | 924.0                | 1036.0 | 841.5               | 866.0 | 800.0             | 817.5 | 2762.0                | 2720.5 | 4.0                       | 13.0  | 15.2                    | 56.2  |                         |       | 127.4         | 129.5 | 65.1                 | 71.1  | 865.0                 | 974.5 |
| Average     | 26.1                 | 27.2  | 29.8                 | 33.4   | 27.1                | 27.9  | 25.8              | 26.4  | 89.1                  | 87.8   | 0.1                       | 0.4   | 0.5                     | 1.8   |                         |       |               |       |                      |       | 27.9                  | 31.4  |
|             | 26.7                 |       | 31.6                 |        | 27.5                |       | 26.1              |       | 88.4                  |        | 0.3                       |       | 1.2                     |       |                         |       | 256.9         |       | 136.2                |       | 29.7                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| September 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|----------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|                | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day            | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM            |                      | 27.0  |                      | 27.0   |                     | 27.0  |                   | 26.0  |                       | 92.0   |                           | -     |                         | 1.5   |                         | SW    |               | 20.0  |                      | 2.0   |                       | 32.0  |
| 1              | 26.0                 | 27.0  | 29.0                 | 35.0   | 27.0                | 26.0  | 26.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | 0.1                     | 2.4   | SW                      | E     | -             | 4.6   | 2.1                  | 2.2   | 27.0                  | 32.0  |
| 2              | 26.0                 | 25.0  | 28.0                 | 34.0   | 27.0                | 24.0  | 26.0              | 23.0  | 92.0                  | 91.0   | -                         | 2.0   | 0.2                     | 0.8   | NE                      | E     | 3.0           | 37.0  | 2.6                  | 2.8   | 27.0                  | 28.0  |
| 3              | 25.0                 | 26.0  | 27.0                 | 34.0   | 27.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 1.1   | NE                      | NE    | -             | -     | 2.0                  | 2.6   | 26.0                  | 28.0  |
| 4              | 27.0                 | 28.0  | 30.0                 | 36.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.5                     | 1.5   | NE                      | SW    | -             | -     | 2.2                  | 2.8   | 27.0                  | 33.0  |
| 5              | 28.0                 | 29.0  | 33.0                 | 36.0   | 28.0                | 32.0  | 27.0              | 29.0  | 88.5                  | 79.0   | -                         | -     | 0.0                     | 1.0   | SW                      | SE    | -             | -     | 2.0                  | 2.8   | 28.0                  | 35.0  |
| 6              | 26.0                 | 27.0  | 35.0                 | 35.0   | 26.0                | 28.0  | 26.0              | 26.0  | 96.0                  | 81.0   | -                         | -     | 0.4                     | 0.7   | NE                      | NE    | 24.2          | -     | 2.2                  | 2.7   | 27.0                  | 35.0  |
| 7              | 27.0                 | 27.0  | 30.0                 | 33.0   | 28.0                | 31.0  | 27.0              | 28.0  | 92.0                  | 78.0   | -                         | -     | 0.1                     | 0.7   | NE                      | NE    | -             | -     | 2.4                  | 2.9   | 28.0                  | 35.0  |
| 8              | 27.0                 | 28.0  | 32.0                 | 37.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | -     | 2.2                  | 2.6   | 29.0                  | 35.0  |
| 9              | 26.0                 | 27.0  | 32.0                 | 37.0   | 28.0                | 26.0  | 26.0              | 25.0  | 85.0                  | 88.0   | -                         | -     | 0.5                     | 0.3   | NE                      | SE    | -             | 2.8   | 2.4                  | 2.8   | 29.0                  | 32.0  |
| 10             | 26.0                 | 28.0  | 30.0                 | 35.0   | 27.0                | 28.0  | 26.5              | 27.0  | 96.0                  | 92.0   | -                         | -     | 0.3                     | 0.3   | SW                      | NE    | 0.6           | -     | 1.8                  | 2.4   | 27.0                  | 34.0  |
| 11             | 27.0                 | 28.0  | 33.0                 | 38.0   | 28.0                | 30.0  | 27.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.0                     | 1.1   | NE                      | N     | -             | -     | 2.0                  | 2.6   | 26.5                  | 35.0  |
| 12             | 25.0                 | 27.0  | 32.0                 | 36.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 0.6                     | 1.2   | SW                      | NW    | 10.2          | -     | 2.2                  | 2.5   | 27.0                  | 34.0  |
| 13             | 25.0                 | 25.0  | 29.0                 | 34.0   | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.5                     | 1.8   | NE                      | W     | -             | -     | 2.1                  | 2.6   | 27.0                  | 34.0  |
| 14             | 25.0                 | 27.0  | 34.0                 | 35.0   | 27.0                | 30.0  | 25.0              | 28.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 1.0   | W                       | NE    | -             | -     | 2.0                  | 2.7   | 27.0                  | 35.0  |
| 15             | 26.0                 | 27.0  | 31.0                 | 35.0   | 26.5                | 31.0  | 25.0              | 28.0  | 88.0                  | 78.0   | -                         | -     | 0.4                     | 1.3   | NE                      | S     | -             | -     | 2.0                  | 2.4   | 27.0                  | 34.0  |
| 16             | 27.0                 | 31.0  | 32.0                 | 36.0   | 30.0                | 30.0  | 27.0              | 28.0  | 78.0                  | 85.0   | -                         | -     | 0.1                     | 1.6   | SW                      | SE    | -             | -     | 2.1                  | 2.4   | 29.0                  | 35.0  |
| 17             | 27.0                 | 29.0  | 33.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.2                     | 0.7   | NE                      | SW    | 0.6           | -     | 1.8                  | 2.2   | 29.0                  | 34.0  |
| 18             | 26.0                 | 31.0  | 32.0                 | 34.0   | 29.0                | 26.0  | 26.0              | 25.0  | 78.0                  | 92.0   | -                         | -     | 0.8                     | 1.5   | SW                      | NE    | -             | -     | 1.7                  | 1.5   | 29.0                  | 33.0  |
| 19             | 26.0                 | 24.0  | 29.0                 | 30.0   | 24.0                | 26.0  | 23.5              | 25.0  | 96.0                  | 92.0   | -                         | -     | 0.6                     | 1.6   | SW                      | SW    | 14.4          | 0.8   | 1.4                  | 1.2   | 25.5                  | 32.5  |
| 20             | 25.0                 | 26.0  | 28.0                 | 31.0   | 24.0                | 27.0  | 23.0              | 26.0  | 91.0                  | 92.0   | -                         | -     | 0.4                     | 1.0   | NE                      | NW    | 3.4           | 3.2   | 1.2                  | 1.4   | 26.0                  | 30.0  |
| 21             | 25.0                 | 27.0  | 29.0                 | 34.0   | 26.5                | 29.0  | 26.0              | 27.0  | 96.0                  | 85.0   | -                         | -     | 0.2                     | 0.7   | E                       | NE    | 7.0           | -     | 1.2                  | 1.3   | 26.0                  | 32.0  |
| 22             | 27.0                 | 30.0  | 31.0                 | 36.0   | 30.0                | 29.0  | 27.0              | 28.0  | 78.0                  | 92.0   | -                         | -     | 0.1                     | 0.8   | NE                      | NE    | -             | -     | 1.1                  | 1.0   | 28.0                  | 33.0  |
| 23             | 27.0                 | 30.0  | 32.0                 | 36.0   | 30.0                | 30.0  | 26.0              | 27.0  | 72.0                  | 78.0   | -                         | -     | 0.5                     | 1.6   | SW                      | SW    | -             | -     | 1.0                  | 1.0   | 29.0                  | 33.0  |
| 24             | 27.0                 | 29.0  | 32.0                 | 40.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.2                     | 0.9   | SW                      | NE    | -             | -     | 1.2                  | 1.1   | 29.0                  | 33.0  |
| 25             | 28.0                 | 32.0  | 32.0                 | 37.0   | 30.0                | 31.0  | 27.0              | 28.0  | 78.0                  | 72.5   | -                         | -     | 0.1                     | 1.6   | SW                      | NE    | -             | -     | 1.0                  | 1.2   | 30.0                  | 33.5  |
| 26             | 27.0                 | 30.0  | 32.0                 | 38.0   | 30.0                | 31.0  | 27.0              | 27.0  | 78.0                  | 72.5   | -                         | -     | 0.1                     | 1.6   | W                       | NE    | -             | -     | 1.1                  | 1.3   | 29.0                  | 34.0  |
| 27             | 26.0                 | 28.0  | 32.0                 | 38.0   | 28.0                | 31.0  | 26.0              | 28.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 1.9   | NE                      | NE    | -             | -     | 1.2                  | 1.4   | 29.0                  | 34.0  |
| 28             | 27.0                 | 30.0  | 35.0                 | 37.0   | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.1                     | 1.4   | NE                      | NE    | -             | -     | 1.8                  | 1.6   | 28.5                  | 34.5  |
| 29             | 25.0                 | 27.0  | 34.0                 | 36.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.4                     | 0.6   | SE                      | NE    | 17.6          | -     | 2.0                  | 1.8   | 26.0                  | 35.0  |
| 30             | 25.0                 |       | 31.0                 |        | 28.0                |       | 26.0              |       | 85.0                  |        | -                         |       | 0.8                     |       | NE                      |       | 1.4           |       | 1.8                  |       | 28.0                  |       |
| Total          | 787.0                | 837.0 | 939.0                | 1054.0 | 832.0               | 868.0 | 780.0             | 806.0 | 2607.5                | 2517.0 | -                         | 2.0   | 8.2                     | 35.0  |                         |       | 82.4          | 68.4  | 53.8                 | 61.8  | 830.5                 | 997.5 |
| Average        | 26.2                 | 27.9  | 31.3                 | 35.1   | 27.7                | 28.9  | 26.0              | 26.9  | 86.9                  | 83.9   | -                         | 0.1   | 0.3                     | 1.2   |                         |       |               |       |                      |       | 27.7                  | 33.3  |
|                | 27.1                 |       | 33.2                 |        | 28.3                |       | 26.4              |       | 85.4                  |        | 0.0                       |       | 0.7                     |       |                         |       | 150.8         |       | 115.6                |       | 30.5                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| October 2017 |                      |         |                      |          |                     |         |                   |         |                       |          |                           |        |                         |        |                         |       |               |       |                      |        |                       |         |
|--------------|----------------------|---------|----------------------|----------|---------------------|---------|-------------------|---------|-----------------------|----------|---------------------------|--------|-------------------------|--------|-------------------------|-------|---------------|-------|----------------------|--------|-----------------------|---------|
|              | Min Temperature (°C) |         | Max Temperature (°C) |          | Dry Bulb Temp. (°C) |         | Wet Bulb Temp. °C |         | Relative Humidity (%) |          | Inst. Wind Speed (kms/hr) |        | Av. Wind Speed (kms/hr) |        | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |         |
| Day          | 08:30                | 17:30   | 08:30                | 17:30    | 08:30               | 17:30   | 08:30             | 17:30   | 08:30                 | 17:30    | 08:30                     | 17:30  | 08:30                   | 17:30  | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30   |
| LPOPM        |                      |         |                      |          |                     |         |                   |         |                       |          |                           |        |                         |        |                         |       |               |       |                      |        |                       |         |
| 1            | 25.0                 | 28.0    | 34.0                 | 32.0     | 27.0                | 28.0    | 25.0              | 27.0    | 84.0                  | 92.0     | -                         | -      | 0.3                     | 0.8    | NE                      | NE    | 2.4           | -     | 2.6                  | 2.4    | 27.0                  | 36.0    |
| 2            | 26.0                 | 27.0    | 30.0                 | 32.0     | 27.0                | 28.0    | 26.0              | 27.0    | 92.0                  | 92.0     | -                         | -      | 0.2                     | 1.8    | SW                      | NE    | -             | -     | 2.2                  | 2.0    | 27.0                  | 34.0    |
| 3            | 26.0                 | 27.0    | 28.0                 | 35.0     | 26.0                | 26.0    | 25.0              | 24.0    | 92.0                  | 84.0     | 2.0                       | 2.0    | 0.1                     | 1.1    | W                       | NE    | -             | -     | 2.0                  | 2.2    | 26.0                  | 32.0    |
| 4            | 25.0                 | 27.0    | 28.0                 | 35.0     | 27.0                | 28.0    | 26.0              | 27.0    | 92.0                  | 92.0     | -                         | 2.0    | 0.0                     | 1.4    | SW                      | NE    | 0.2           | 0.6   | 2.0                  | 2.4    | 26.0                  | 32.0    |
| 5            | 25.0                 | 26.0    | 30.0                 | 35.0     | 26.0                | 29.0    | 25.0              | 27.0    | 92.0                  | 85.0     | -                         | -      | 0.2                     | 1.3    | NE                      | E     | -             | 0.6   | 2.1                  | 2.5    | 26.5                  | 30.0    |
| 6            | 25.0                 | 27.0    | 31.0                 | 36.0     | 27.0                | 26.0    | 25.0              | 26.0    | 84.0                  | 92.0     | 2.0                       | -      | 0.3                     | 1.4    | NE                      | NE    | -             | 1.6   | 2.2                  | 2.0    | 26.0                  | 30.0    |
| 7            | 25.0                 | 27.0    | 28.0                 | 34.0     | 27.0                | 29.0    | 26.0              | 27.0    | 92.0                  | 85.0     | -                         | -      | 0.1                     | 1.0    | N                       | NE    | -             | -     | 2.0                  | 1.8    | 26.0                  | 30.0    |
| 8            | 25.5                 | 27.0    | 31.0                 | 35.0     | 26.5                | 29.0    | 25.0              | 27.0    | 88.0                  | 85.0     | -                         | -      | 0.1                     | 0.6    | NE                      | SW    | 1.2           | 1.2   | 2.2                  | 2.4    | 26.0                  | 30.0    |
| 9            | 25.0                 | 26.0    | 30.0                 | 34.0     | 25.0                | 28.0    | 24.5              | 27.0    | 96.0                  | 92.0     | -                         | -      | 0.1                     | 1.4    | NE                      | NE    | -             | -     | 2.0                  | 2.4    | 25.0                  | 30.0    |
| 10           | 25.0                 | 27.0    | 30.0                 | 35.0     | 28.0                | 27.0    | 26.0              | 26.0    | 85.0                  | 92.0     | -                         | -      | 0.1                     | 1.5    | NE                      | SW    | -             | -     | 2.2                  | 2.5    | 26.0                  | 30.5    |
| 11           | 25.0                 | 27.0    | 34.0                 | 37.0     | 27.0                | 29.0    | 26.0              | 26.0    | 92.0                  | 78.0     | -                         | -      | 0.1                     | 1.1    | NW                      | NE    | -             | -     | 2.1                  | 2.4    | 26.0                  | 31.0    |
| 12           | 26.0                 | 28.0    | 31.0                 | 37.0     | 27.0                | 30.0    | 26.0              | 27.0    | 92.0                  | 78.0     | -                         | -      | 0.1                     | 0.8    | NE                      | NE    | -             | -     | 2.3                  | 2.2    | 27.0                  | 33.0    |
| 13           | 26.0                 | 30.0    | 32.0                 | 37.0     | 30.0                | 30.0    | 27.0              | 27.0    | 78.0                  | 78.0     | -                         | -      | 0.1                     | 1.4    | NE                      | SW    | -             | -     | 2.4                  | 2.6    | 28.0                  | 33.0    |
| 14           | 27.0                 | 27.0    | 32.0                 | 37.0     | 29.0                | 29.0    | 27.0              | 26.0    | 92.0                  | 78.0     | -                         | 2.0    | 0.1                     | 1.4    | NE                      | SW    | -             | -     | 2.5                  | 2.4    | 29.0                  | 33.0    |
| 15           | 26.0                 | 26.0    | 30.0                 | 37.0     | 29.0                | 30.0    | 26.0              | 27.0    | 78.0                  | 78.0     | -                         | -      | 0.2                     | 1.2    | NE                      | NE    | -             | -     | 2.3                  | 2.4    | 28.5                  | 33.0    |
| 16           | 25.0                 | 28.0    | 32.0                 | 38.0     | 28.0                | 30.0    | 25.0              | 27.0    | 77.0                  | 78.0     | -                         | 2.0    | 0.2                     | 2.1    | NE                      | NE    | -             | -     | 2.2                  | 2.6    | 29.0                  | 34.0    |
| 17           | 24.0                 | 27.0    | 33.0                 | 38.0     | 28.0                | 28.0    | 25.0              | 24.0    | 77.0                  | 78.0     | -                         | -      | 0.4                     | 2.4    | NE                      | NE    | -             | -     | 2.1                  | 2.4    | 26.0                  | 34.0    |
| 18           | 25.0                 | 29.0    | 33.0                 | 37.0     | 28.0                | 29.0    | 25.5              | 26.0    | 81.0                  | 78.0     | -                         | -      | 0.4                     | 1.3    | NE                      | N     | -             | -     | 2.0                  | 2.6    | 26.0                  | 30.0    |
| 19           | 26.0                 | 27.0    | 31.0                 | 33.0     | 27.0                | 26.0    | 25.0              | 25.0    | 84.0                  | 92.0     | -                         | -      | 2.7                     | 3.5    | NE                      | SW    | -             | 0.4   | 2.1                  | 1.4    | 27.0                  | 29.0    |
| 20           | 25.0                 | 26.0    | 29.0                 | 32.0     | 26.0                | 28.0    | 24.0              | 26.0    | 84.0                  | 85.0     | -                         | -      | 0.0                     | 4.0    | E                       | SW    | 4.4           | -     | 2.4                  | 2.1    | 25.5                  | 29.0    |
| 21           | 25.0                 | 29.0    | 32.0                 | 34.0     | 28.5                | 29.0    | 26.5              | 26.0    | 85.0                  | 78.0     | 2.0                       | -      | 0.1                     | 1.2    | NE                      | NE    | -             | -     | 2.4                  | 2.6    | 30.0                  | 30.0    |
| 22           | 25.0                 | 26.0    | 32.0                 | 37.0     | 30.0                | 29.0    | 27.0              | 27.0    | 78.0                  | 85.0     | -                         | -      | 0.1                     | 1.2    | SW                      | NE    | -             | -     | 2.2                  | 2.4    | 29.5                  | 32.0    |
| 23           | 24.0                 | 29.0    | 32.0                 | 37.0     | 28.0                | 29.0    | 25.0              | 25.0    | 77.0                  | 71.0     | -                         | -      | 0.0                     | 0.7    | SW                      | E     | -             | -     | 2.1                  | 2.5    | 26.0                  | 32.0    |
| 24           | 26.0                 | 29.0    | 31.0                 | 38.0     | 29.0                | 28.0    | 27.0              | 25.0    | 92.0                  | 77.0     | -                         | -      | 0.0                     | 0.8    | NE                      | SW    | -             | -     | 2.0                  | 2.2    | 25.5                  | 31.0    |
| 25           | 25.0                 | 30.0    | 32.0                 | 37.0     | 30.0                | 28.0    | 26.0              | 25.0    | 72.0                  | 77.0     | 2.0                       | -      | 0.2                     | 1.1    | NE                      | SE    | -             | -     | 2.2                  | 2.4    | 25.0                  | 30.5    |
| 26           | 25.0                 | 25.0    | 30.0                 | 36.0     | 26.0                | 28.0    | 24.0              | 25.0    | 84.0                  | 77.0     | -                         | -      | 0.1                     | 0.8    | NE                      | E     | -             | -     | 2.1                  | 2.3    | 26.0                  | 31.0    |
| 27           | 24.0                 | 28.0    | 31.0                 | 36.0     | 27.0                | 27.0    | 24.0              | 24.0    | 77.0                  | 77.0     | -                         | 2.0    | 0.1                     | 0.6    | NE                      | E     | -             | -     | 2.0                  | 2.4    | 27.0                  | 30.0    |
| 28           | 23.0                 | 27.0    | 34.0                 | 36.0     | 26.0                | 28.0    | 24.0              | 26.0    | 84.0                  | 85.0     | -                         | -      | 0.4                     | 0.8    | NE                      | E     | -             | -     | 2.2                  | 2.3    | 27.0                  | 30.0    |
| 29           | 22.0                 | 21.0    | 35.0                 | 36.0     | 27.0                | 26.0    | 24.0              | 23.0    | 77.0                  | 76.0     | -                         | -      | 0.2                     | 1.3    | SW                      | SW    | -             | -     | 1.8                  | 2.0    | 26.5                  | 29.0    |
| 30           | 19.0                 | 25.0    | 23.0                 | 35.0     | 24.0                | 26.0    | 22.0              | 22.0    | 83.0                  | 76.0     | -                         | -      | 0.1                     | 1.3    | NE                      | W     | -             | -     | 1.9                  | 2.1    | 26.0                  | 28.0    |
| 31           | 19.0                 |         | 28.0                 |          | 24.0                |         | 21.0              |         | 75.0                  |          | -                         |        | 0.1                     |        | E                       |       | -             |       | 1.9                  |        | 26.0                  |         |
| Total        | 764.5                | 813.0 * | 957.0                | 1068.0 * | 845.0               | 845.0 * | 780.5             | 774.0 * | 2616.0                | 2471.0 * | 8.0                       | 10.0 * | 7.0                     | 41.2 * |                         |       | 8.2           | 4.4   | 66.7                 | 68.9 * | 828.0                 | 937.0 * |
| Average      | 24.7                 | 27.1 *  | 30.9                 | 35.6 *   | 27.3                | 28.2 *  | 25.2              | 25.8 *  | 84.4                  | 82.4 *   | 0.3                       | 0.3 *  | 0.2                     | 1.4 *  |                         |       |               |       |                      |        | 26.7                  | 31.2 *  |
|              | 25.9 *               |         | 33.2 *               |          | 27.7 *              |         | 25.5 *            |         | 83.4 *                |          | 0.3 *                     |        | 0.8 *                   |        |                         |       | 12.6 *        |       | 135.6 *              |        | 29.0 *                |         |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| November 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 25.0  |                      | 34.0  |                     | 26.0  |                   | 22.0  |                       | 69.0   |                           | -     |                         | 0.8   |                         | E     |               | -     |                      | 2.0   |                       | 28.5  |
| 1             | 21.0                 | 25.0  | 29.0                 | 34.0  | 25.0                | 27.0  | 22.0              | 23.0  | 76.0                  | 70.0   | -                         | -     | 0.1                     | 1.7   | NE                      | NE    | -             | -     | 2.0                  | 2.1   | 22.0                  | 29.0  |
| 2             | 20.0                 | 28.0  | 30.0                 | 34.0  | 24.0                | 28.0  | 21.0              | 22.0  | 75.0                  | 57.0   | -                         | -     | 0.2                     | 1.7   | NE                      | NE    | -             | -     | 1.8                  | 2.0   | 21.5                  | 29.0  |
| 3             | 21.0                 | 27.0  | 30.0                 | 34.0  | 25.0                | 28.0  | 22.0              | 23.0  | 76.0                  | 64.0   | -                         | -     | 0.4                     | 0.8   | NE                      | SW    | -             | -     | 2.0                  | 1.9   | 22.0                  | 29.0  |
| 4             | 19.0                 | 26.0  | 29.0                 | 34.0  | 25.0                | 27.0  | 22.0              | 23.0  | 76.0                  | 70.0   | -                         | -     | 0.9                     | 1.4   | SW                      | NE    | -             | -     | 1.8                  | 2.0   | 21.5                  | 29.5  |
| 5             | 19.0                 | 27.0  | 29.0                 | 35.0  | 25.0                | 28.0  | 23.0              | 24.0  | 84.0                  | 70.0   | -                         | -     | 0.9                     | 1.6   | NE                      | NE    | -             | -     | 1.7                  | 1.8   | 21.0                  | 29.5  |
| 6             | 20.0                 | 28.0  | 28.0                 | 35.0  | 24.0                | 28.0  | 22.0              | 24.0  | 83.0                  | 70.0   | -                         | -     | 0.4                     | 0.8   | NE                      | NE    | -             | -     | 1.8                  | 2.0   | 21.0                  | 29.5  |
| 7             | 19.0                 | 26.0  | 27.0                 | 34.0  | 22.0                | 27.0  | 20.0              | 25.0  | 82.0                  | 84.0   | -                         | -     | 0.5                     | 0.7   | SE                      | NE    | -             | -     | 1.9                  | 2.0   | 22.0                  | 29.0  |
| 8             | 18.5                 | 24.0  | 29.0                 | 34.0  | 24.0                | 26.0  | 22.0              | 24.0  | 83.0                  | 84.0   | -                         | -     | 1.0                     | 0.6   | NE                      | SW    | -             | -     | 1.9                  | 2.1   | 22.5                  | 29.0  |
| 9             | 18.5                 | 25.0  | 27.0                 | 35.0  | 22.5                | 27.0  | 20.0              | 25.0  | 78.5                  | 84.0   | -                         | -     | 0.4                     | 0.9   | NE                      | NE    | -             | -     | 1.8                  | 2.0   | 22.0                  | 29.5  |
| 10            | 17.0                 | 21.0  | 24.0                 | 29.0  | 21.0                | 25.0  | 20.0              | 23.0  | 91.0                  | 84.0   | -                         | -     | 0.4                     | 1.5   | SW                      | NE    | -             | -     | 1.9                  | 2.0   | 22.5                  | 27.0  |
| 11            | 17.0                 | 24.0  | 22.0                 | 30.0  | 20.0                | 25.0  | 19.0              | 23.0  | 91.0                  | 84.0   | -                         | -     | 0.4                     | 1.1   | NW                      | SE    | -             | -     | 1.7                  | 2.2   | 22.0                  | 28.0  |
| 12            | 17.0                 | 24.0  | 22.0                 | 30.0  | 20.0                | 25.0  | 19.0              | 23.0  | 91.0                  | 84.0   | -                         | -     | 1.0                     | 1.6   | NE                      | SE    | -             | -     | 1.8                  | 2.1   | 22.5                  | 28.0  |
| 13            | 18.0                 | 23.0  | 26.0                 | 30.0  | 22.0                | 26.0  | 20.0              | 21.0  | 82.0                  | 62.0   | -                         | 2.0   | 0.3                     | 2.8   | SE                      | NE    | -             | -     | 1.9                  | 2.2   | 22.0                  | 28.5  |
| 14            | 19.0                 | 23.0  | 27.0                 | 31.0  | 23.0                | 26.0  | 21.0              | 22.0  | 83.0                  | 69.0   | -                         | -     | 0.2                     | 1.4   | NE                      | NE    | -             | -     | 2.0                  | 2.2   | 23.0                  | 28.0  |
| 15            | 20.0                 | 24.0  | 27.0                 | 30.0  | 23.0                | 22.0  | 22.0              | 21.0  | 91.0                  | 91.0   | -                         | 2.0   | 0.4                     | 2.1   | NE                      | NE    | -             | 0.6   | 2.0                  | 2.0   | 23.5                  | 25.0  |
| 16            | 22.0                 | 22.0  | 23.0                 | 24.0  | 22.0                | 22.0  | 21.0              | 21.0  | 91.0                  | 91.0   | -                         | -     | 0.8                     | 2.6   | SE                      | NE    | 0.6           | 2.8   | 1.8                  | 2.2   | 22.0                  | 23.5  |
| 17            | 22.0                 | 23.0  | 24.0                 | 31.0  | 25.0                | 24.0  | 22.0              | 23.0  | 76.0                  | 91.0   | -                         | -     | 0.9                     | 1.7   | NE                      | NE    | -             | -     | 1.6                  | 1.8   | 23.0                  | 24.0  |
| 18            | 23.0                 | 23.0  | 26.0                 | 25.0  | 24.0                | 23.0  | 22.0              | 22.0  | 83.0                  | 91.0   | -                         | -     | 0.3                     | 1.4   | NE                      | SE    | -             | 0.6   | 1.6                  | 2.0   | 23.0                  | 24.0  |
| 19            | 22.0                 | 24.0  | 25.0                 | 25.0  | 23.0                | 25.0  | 22.0              | 24.0  | 91.0                  | 92.0   | -                         | -     | 0.2                     | 0.9   | SW                      | NE    | -             | -     | 1.7                  | 1.8   | 23.0                  | 24.5  |
| 20            | 21.0                 | 26.0  | 27.0                 | 35.0  | 23.0                | 26.0  | 22.0              | 24.0  | 91.0                  | 84.0   | -                         | -     | 0.1                     | 1.4   | NE                      | SE    | -             | -     | 1.8                  | 2.1   | 23.0                  | 28.0  |
| 21            | 21.0                 | 26.0  | 27.0                 | 35.0  | 24.0                | 27.0  | 22.0              | 24.0  | 83.0                  | 77.0   | 2.0                       | -     | 0.3                     | 1.7   | NE                      | SW    | -             | -     | 1.8                  | 2.0   | 23.0                  | 27.0  |
| 22            | 18.0                 | 24.0  | 28.0                 | 33.0  | 23.0                | 26.0  | 20.0              | 24.0  | 75.0                  | 84.0   | -                         | -     | 0.2                     | 1.3   | SE                      | SE    | -             | -     | 1.6                  | 2.0   | 22.0                  | 26.0  |
| 23            | 17.0                 | 20.0  | 27.0                 | 33.0  | 22.0                | 26.0  | 20.0              | 24.0  | 82.0                  | 84.0   | -                         | -     | 0.2                     | 1.6   | NE                      | SE    | -             | -     | 1.5                  | 1.9   | 20.0                  | 25.5  |
| 24            | 15.0                 | 19.0  | 26.0                 | 32.0  | 20.0                | 26.0  | 18.0              | 22.0  | 81.0                  | 69.0   | -                         | -     | 0.4                     | 1.8   | NE                      | NE    | -             | -     | 1.7                  | 1.8   | 20.5                  | 25.0  |
| 25            | 15.5                 | 20.0  | 26.0                 | 33.0  | 20.0                | 26.0  | 17.0              | 22.0  | 73.0                  | 69.0   | -                         | -     | 0.1                     | 1.2   | NE                      | SE    | -             | -     | 1.6                  | 1.9   | 20.0                  | 25.0  |
| 26            | 14.0                 | 20.0  | 28.0                 | 32.0  | 15.0                | 25.0  | 14.0              | 22.0  | 89.0                  | 76.0   | -                         | -     | 0.0                     | 0.3   | NE                      | SE    | -             | -     | 1.8                  | 2.0   | 20.0                  | 25.0  |
| 27            | 14.0                 | 15.0  | 27.0                 | 34.0  | 15.0                | 22.0  | 14.0              | 19.0  | 89.0                  | 74.0   | -                         | -     | 0.5                     | 1.2   | NE                      | E     | -             | -     | 1.7                  | 2.0   | 20.5                  | 24.5  |
| 28            | 12.0                 | 18.0  | 21.0                 | 34.0  | 19.0                | 21.0  | 17.0              | 18.0  | 81.0                  | 73.0   | -                         | -     | 0.2                     | 1.0   | N                       | NE    | -             | -     | 1.9                  | 2.0   | 20.0                  | 24.0  |
| 29            | 13.0                 | 18.0  | 25.0                 | 33.0  | 18.0                | 22.0  | 16.0              | 19.0  | 80.0                  | 74.0   | -                         | -     | 0.2                     | 1.0   | NE                      | NE    | -             | -     | 1.8                  | 1.9   | 19.0                  | 22.0  |
| 30            | 12.0                 |       | 24.0                 |       | 18.0                |       | 17.0              |       | 90.0                  |        | -                         |       | 0.2                     |       | NE                      |       | -             |       | 1.7                  |       | 18.5                  |       |
| Total         | 545.5                | 698.0 | 790.0                | 962.0 | 656.5               | 762.0 | 599.0             | 676.0 | 2497.5                | 2325.0 | 2.0                       | 4.0   | 11.9                    | 40.7  |                         |       | 0.6           | 4.0   | 53.6                 | 60.0  | 648.5                 | 804.0 |
| Average       | 18.2                 | 23.3  | 26.3                 | 32.1  | 21.9                | 25.4  | 20.0              | 22.5  | 83.3                  | 77.5   | 0.1                       | 0.1   | 0.4                     | 1.4   |                         |       |               |       |                      |       | 21.6                  | 26.8  |
|               | 20.7                 |       | 29.2                 |       | 23.6                |       | 21.3              |       | 80.4                  |        | 0.1                       |       | 0.9                     |       |                         |       | 4.6           |       | 113.6                |       | 24.2                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| December 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 18.0  |                      | 33.0  |                     | 22.0  |                   | 18.0  |                       | 66.0   |                           | -     |                         | 1.2   |                         | NE    |               | -     |                      | 1.8   |                       | 22.0  |
| 1             | 13.0                 | 18.0  | 25.0                 | 32.0  | 18.0                | 22.0  | 16.5              | 19.0  | 85.0                  | 74.0   | -                         | -     | 0.1                     | 1.3   | NE                      | SW    | -             | -     | 1.0                  | 1.2   | 19.0                  | 22.0  |
| 2             | 13.0                 | 18.0  | 24.0                 | 32.0  | 18.0                | 24.0  | 17.0              | 20.0  | 90.0                  | 68.0   | -                         | -     | 0.5                     | 1.5   | NE                      | SE    | -             | -     | 1.2                  | 1.4   | 18.0                  | 21.5  |
| 3             | 12.0                 | 18.0  | 25.0                 | 32.0  | 18.0                | 24.0  | 16.0              | 20.0  | 80.0                  | 68.0   | -                         | -     | 0.1                     | 1.3   | NE                      | SE    | -             | -     | 1.0                  | 1.2   | 19.0                  | 22.0  |
| 4             | 12.0                 | 15.0  | 26.0                 | 32.0  | 18.0                | 23.0  | 16.0              | 19.0  | 80.0                  | 67.0   | -                         | -     | 0.2                     | 1.2   | NE                      | SE    | -             | -     | 1.6                  | 1.4   | 20.0                  | 21.5  |
| 5             | 11.0                 | 17.0  | 25.0                 | 32.0  | 16.0                | 22.0  | 15.0              | 18.0  | 89.0                  | 66.0   | -                         | -     | 0.1                     | 1.3   | W                       | NE    | -             | -     | 1.6                  | 1.8   | 19.0                  | 22.5  |
| 6             | 12.0                 | 20.0  | 24.0                 | 32.0  | 18.0                | 22.0  | 15.0              | 19.0  | 71.0                  | 74.0   | -                         | -     | 0.4                     | 1.4   | NE                      | NE    | -             | -     | 1.8                  | 1.6   | 19.0                  | 22.5  |
| 7             | 13.0                 | 20.0  | 25.0                 | 32.0  | 20.0                | 24.0  | 18.0              | 21.0  | 81.0                  | 75.0   | -                         | -     | 0.2                     | 1.4   | NE                      | NE    | -             | -     | 1.7                  | 1.8   | 17.0                  | 22.0  |
| 8             | 14.0                 | 20.0  | 26.0                 | 32.0  | 17.0                | 23.0  | 16.0              | 21.0  | 90.0                  | 83.0   | -                         | 2.0   | 0.3                     | 2.7   | NE                      | NE    | -             | -     | 1.6                  | 1.9   | 16.0                  | 22.0  |
| 9             | 14.0                 | 18.0  | 25.0                 | 32.0  | 19.0                | 25.0  | 17.0              | 21.0  | 72.0                  | 68.0   | 2.0                       | 2.0   | 1.5                     | 4.7   | NW                      | SW    | -             | -     | 1.5                  | 1.7   | 17.0                  | 23.0  |
| 10            | 14.0                 | 18.0  | 24.0                 | 33.0  | 20.0                | 25.0  | 18.0              | 21.0  | 81.0                  | 68.0   | 2.0                       | -     | 1.5                     | 1.6   | NW                      | SE    | -             | -     | 1.6                  | 1.8   | 18.0                  | 23.5  |
| 11            | 15.0                 | 19.0  | 26.0                 | 33.0  | 20.0                | 23.0  | 18.0              | 19.0  | 81.0                  | 67.0   | -                         | -     | 0.1                     | 1.1   | NE                      | SW    | -             | -     | 1.7                  | 1.9   | 17.5                  | 24.0  |
| 12            | 14.0                 | 20.0  | 26.0                 | 32.0  | 20.0                | 25.0  | 19.0              | 21.0  | 91.0                  | 68.0   | -                         | -     | 0.5                     | 0.7   | NW                      | SE    | -             | -     | 1.8                  | 1.9   | 16.0                  | 24.0  |
| 13            | 14.0                 | 19.0  | 26.0                 | 33.0  | 17.0                | 26.0  | 16.0              | 22.0  | 90.0                  | 69.0   | -                         | -     | 0.1                     | 1.4   | NW                      | SE    | -             | -     | 1.6                  | 1.6   | 16.5                  | 25.0  |
| 14            | 15.0                 | 18.0  | 28.0                 | 33.0  | 18.0                | 24.0  | 17.0              | 20.0  | 90.0                  | 68.0   | -                         | -     | 0.1                     | 0.8   | NW                      | E     | -             | -     | 1.5                  | 1.7   | 17.0                  | 25.0  |
| 15            | 14.0                 | 18.0  | 28.0                 | 35.0  | 18.0                | 24.0  | 16.0              | 20.0  | 80.0                  | 68.0   | -                         | -     | 0.4                     | 1.1   | E                       | E     | -             | -     | 1.7                  | 1.2   | 16.0                  | 25.0  |
| 16            | 14.0                 | 18.0  | 27.0                 | 34.0  | 18.0                | 23.0  | 16.0              | 20.0  | 80.0                  | 75.0   | -                         | -     | 0.2                     | 0.9   | SE                      | E     | -             | -     | 1.4                  | 1.6   | 16.0                  | 24.5  |
| 17            | 14.5                 | 21.0  | 26.0                 | 33.0  | 21.0                | 25.0  | 19.0              | 20.0  | 82.0                  | 61.0   | -                         | -     | 0.3                     | 1.7   | E                       | SW    | -             | -     | 1.6                  | 1.7   | 17.0                  | 25.0  |
| 18            | 13.0                 | 16.0  | 27.0                 | 34.0  | 16.0                | 23.0  | 15.0              | 19.0  | 89.0                  | 67.0   | -                         | 2.0   | 0.5                     | 2.2   | SW                      | NE    | -             | -     | 1.7                  | 1.6   | 17.0                  | 24.0  |
| 19            | 10.0                 | 15.0  | 26.0                 | 31.0  | 14.0                | 22.0  | 12.0              | 20.0  | 78.0                  | 82.0   | -                         | -     | 0.1                     | 0.8   | SW                      | NE    | -             | -     | 1.6                  | 1.6   | 17.0                  | 23.0  |
| 20            | 10.0                 | 16.0  | 25.0                 | 32.0  | 14.0                | 23.0  | 12.0              | 21.0  | 78.0                  | 83.0   | -                         | -     | 0.4                     | 0.8   | SE                      | NE    | -             | -     | 1.4                  | 1.6   | 16.5                  | 23.5  |
| 21            | 11.0                 | 16.0  | 24.0                 | 31.0  | 15.0                | 23.0  | 13.0              | 21.0  | 78.0                  | 83.0   | -                         | -     | 0.6                     | 0.4   | SE                      | SE    | -             | -     | 1.4                  | 1.6   | 16.0                  | 23.0  |
| 22            | 12.0                 | 17.0  | 25.0                 | 32.0  | 18.0                | 24.0  | 16.0              | 19.0  | 80.0                  | 60.0   | -                         | -     | 0.5                     | 1.2   | NE                      | SW    | -             | -     | 1.5                  | 1.7   | 16.5                  | 23.0  |
| 23            | 10.0                 | 16.0  | 26.0                 | 32.0  | 18.0                | 24.0  | 16.0              | 19.0  | 80.0                  | 60.0   | -                         | -     | 0.2                     | 0.8   | SE                      | SE    | -             | -     | 1.4                  | 1.6   | 16.5                  | 23.0  |
| 24            | 10.0                 | 16.0  | 26.0                 | 31.0  | 18.0                | 24.0  | 16.0              | 20.0  | 80.0                  | 68.0   | -                         | -     | 0.7                     | 1.2   | NE                      | NE    | -             | -     | 1.2                  | 1.5   | 15.0                  | 22.0  |
| 25            | 10.0                 | 15.0  | 27.0                 | 32.0  | 16.0                | 25.0  | 14.0              | 20.0  | 79.0                  | 61.0   | -                         | -     | 0.3                     | 1.3   | SE                      | SE    | -             | -     | 1.3                  | 1.4   | 15.5                  | 20.5  |
| 26            | 11.0                 | 17.0  | 27.0                 | 31.0  | 16.0                | 23.0  | 15.0              | 21.0  | 89.0                  | 83.0   | -                         | -     | 0.6                     | 1.0   | SE                      | SE    | -             | -     | 1.2                  | 1.0   | 14.0                  | 20.0  |
| 27            | 8.0                  | 15.0  | 25.0                 | 30.0  | 15.0                | 22.0  | 12.0              | 20.0  | 68.0                  | 82.0   | -                         | -     | 0.9                     | 1.5   | NE                      | SE    | -             | -     | 1.1                  | 1.3   | 11.0                  | 20.5  |
| 28            | 9.0                  | 16.0  | 17.0                 | 31.0  | 14.0                | 23.0  | 13.0              | 21.0  | 89.0                  | 83.0   | -                         | -     | 0.1                     | 1.1   | NE                      | SE    | -             | -     | 1.2                  | 1.4   | 11.0                  | 20.0  |
| 29            | 9.0                  | 15.0  | 17.0                 | 31.0  | 14.0                | 22.0  | 13.0              | 20.0  | 89.0                  | 82.0   | -                         | -     | 0.4                     | 1.6   | NE                      | NE    | -             | -     | 1.3                  | 1.4   | 12.0                  | 20.0  |
| 30            | 9.0                  | 18.0  | 20.0                 | 32.0  | 15.0                | 24.0  | 12.0              | 18.0  | 68.0                  | 53.0   | -                         | -     | 0.3                     | 1.4   | NE                      | NE    | -             | -     | 1.2                  | 1.8   | 13.0                  | 22.0  |
| 31            | 9.5                  |       | 24.0                 |       | 18.0                |       | 16.0              |       | 80.0                  |        | -                         |       | 0.3                     |       | SE                      |       | -             |       | 1.4                  |       | 13.0                  |       |
| Total         | 370.0                | 541.0 | 772.0                | 997.0 | 535.0               | 728.0 | 480.5             | 618.0 | 2538.0                | 2200.0 | 4.0                       | 6.0   | 12.4                    | 42.7  |                         |       | -             | -     | 44.8                 | 48.7  | 502.0                 | 701.5 |
| Average       | 11.9                 | 17.5  | 24.9                 | 32.2  | 17.3                | 23.5  | 15.5              | 19.9  | 81.9                  | 71.0   | 0.1                       | 0.2   | 0.4                     | 1.4   |                         |       |               |       |                      |       | 16.2                  | 22.6  |
|               | 14.7                 |       | 28.5                 |       | 20.4                |       | 17.7              |       | 76.4                  |        | 0.2                       |       | 0.9                     |       |                         |       | 0.0           |       | 93.5                 |       | 19.4                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| January 2018 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM          |                      | 22.0  |                      | 32.0   |                     | 24.0  |                   | 19.0  |                       | 60.0   |                           | -     |                         | 1.3   |                         | SE    |               | -     |                      | 1.7   |                       | 23.0  |
| 1            | 12.0                 | 19.0  | 26.0                 | 32.0   | 21.0                | 23.0  | 16.0              | 19.0  | 57.0                  | 67.0   | -                         | -     | 0.6                     | 1.7   | NE                      | SE    | -             | -     | 1.6                  | 1.8   | 13.0                  | 23.0  |
| 2            | 13.0                 | 19.0  | 26.0                 | 32.0   | 21.0                | 23.0  | 17.0              | 20.0  | 65.0                  | 75.0   | -                         | -     | 0.3                     | 1.1   | NE                      | NE    | -             | -     | 1.5                  | 1.7   | 13.0                  | 23.0  |
| 3            | 11.0                 | 19.0  | 25.0                 | 31.0   | 19.0                | 23.0  | 16.0              | 19.0  | 72.0                  | 67.0   | -                         | -     | 0.5                     | 1.8   | N                       | NE    | -             | -     | 1.6                  | 1.8   | 12.0                  | 22.0  |
| 4            | 10.0                 | 16.0  | 25.0                 | 30.0   | 15.0                | 20.0  | 12.0              | 16.0  | 68.0                  | 64.0   | -                         | -     | 0.8                     | 1.7   | SE                      | SE    | -             | -     | 1.7                  | 1.7   | 12.0                  | 20.0  |
| 5            | 8.0                  | 13.0  | 24.0                 | 31.0   | 13.0                | 21.0  | 11.0              | 16.0  | 77.0                  | 57.0   | -                         | -     | 0.2                     | 2.4   | N                       | SW    | -             | -     | 1.5                  | 1.9   | 11.0                  | 20.0  |
| 6            | 8.0                  | 15.0  | 24.0                 | 32.0   | 14.0                | 21.0  | 12.0              | 17.0  | 78.0                  | 65.0   | -                         | -     | 0.5                     | 2.1   | N                       | E     | -             | -     | 1.7                  | 1.8   | 12.0                  | 20.0  |
| 7            | 10.0                 | 16.0  | 24.0                 | 32.0   | 15.0                | 23.0  | 13.0              | 19.0  | 78.0                  | 67.0   | -                         | -     | 0.8                     | 1.4   | SE                      | N     | -             | -     | 1.8                  | 1.9   | 11.0                  | 21.0  |
| 8            | 9.0                  | 15.0  | 25.0                 | 31.0   | 15.0                | 21.0  | 13.0              | 16.0  | 78.0                  | 57.0   | -                         | -     | 0.4                     | 2.2   | SE                      | NE    | -             | -     | 1.6                  | 1.8   | 12.0                  | 21.0  |
| 9            | 8.0                  | 14.0  | 23.0                 | 31.0   | 14.0                | 21.0  | 12.0              | 17.0  | 78.0                  | 65.0   | -                         | -     | 0.4                     | 1.4   | SW                      | SE    | -             | -     | 1.4                  | 1.6   | 12.0                  | 21.0  |
| 10           | 8.0                  | 15.0  | 22.0                 | 31.0   | 15.0                | 23.0  | 13.0              | 20.0  | 78.0                  | 75.0   | -                         | -     | 0.6                     | 1.7   | SW                      | SE    | -             | -     | 1.4                  | 1.7   | 11.0                  | 20.0  |
| 11           | 9.0                  | 14.0  | 24.0                 | 32.0   | 14.0                | 22.0  | 12.0              | 20.0  | 78.0                  | 82.0   | -                         | -     | 0.2                     | 1.7   | SW                      | SE    | -             | -     | 1.5                  | 1.6   | 12.0                  | 21.0  |
| 12           | 10.0                 | 15.0  | 24.0                 | 33.0   | 15.0                | 23.0  | 13.0              | 21.0  | 73.0                  | 83.0   | -                         | -     | 0.3                     | 1.6   | NW                      | SE    | -             | -     | 1.6                  | 1.7   | 13.0                  | 21.0  |
| 13           | 10.0                 | 16.0  | 25.0                 | 33.0   | 16.0                | 22.0  | 13.0              | 20.0  | 69.0                  | 82.0   | -                         | -     | 0.4                     | 0.6   | SW                      | SE    | -             | -     | 1.6                  | 1.8   | 13.0                  | 22.0  |
| 14           | 11.0                 | 16.0  | 26.0                 | 33.0   | 17.0                | 22.0  | 14.0              | 20.0  | 70.0                  | 82.0   | -                         | -     | 0.6                     | 1.5   | SW                      | SW    | -             | -     | 1.4                  | 1.6   | 14.0                  | 22.0  |
| 15           | 11.0                 | 16.0  | 25.0                 | 34.0   | 15.0                | 22.0  | 13.0              | 20.0  | 68.0                  | 82.0   | -                         | -     | 0.4                     | 0.9   | SW                      | E     | -             | -     | 1.6                  | 1.8   | 15.0                  | 23.0  |
| 16           | 11.0                 | 15.0  | 27.0                 | 33.0   | 15.0                | 21.0  | 12.0              | 18.0  | 68.0                  | 73.0   | 2.0                       | -     | 1.5                     | 1.8   | NE                      | NE    | -             | -     | 1.6                  | 1.6   | 14.5                  | 22.0  |
| 17           | 9.0                  | 15.0  | 24.0                 | 33.0   | 16.0                | 22.0  | 13.0              | 20.0  | 69.0                  | 82.0   | -                         | -     | 0.5                     | 1.8   | SE                      | SE    | -             | -     | 1.8                  | 1.9   | 12.0                  | 23.0  |
| 18           | 9.0                  | 18.0  | 22.0                 | 33.0   | 18.0                | 26.0  | 14.0              | 24.0  | 62.0                  | 76.0   | -                         | -     | 0.3                     | 1.8   | NE                      | SW    | -             | -     | 1.7                  | 1.6   | 13.0                  | 23.0  |
| 19           | 8.0                  | 18.0  | 29.0                 | 33.0   | 19.0                | 23.0  | 14.0              | 20.0  | 54.0                  | 75.0   | -                         | -     | 0.4                     | 2.3   | W                       | SW    | -             | -     | 1.6                  | 1.7   | 14.0                  | 23.5  |
| 20           | 9.0                  | 17.5  | 26.0                 | 34.0   | 19.0                | 23.0  | 14.0              | 20.0  | 54.0                  | 75.0   | -                         | -     | 0.5                     | 1.2   | NE                      | NE    | -             | -     | 1.7                  | 1.8   | 13.5                  | 23.0  |
| 21           | 10.0                 | 17.0  | 25.0                 | 34.0   | 19.0                | 23.0  | 16.0              | 21.0  | 69.0                  | 83.0   | -                         | -     | 0.4                     | 2.1   | NE                      | SW    | -             | -     | 1.6                  | 1.7   | 13.0                  | 23.0  |
| 22           | 10.0                 | 17.0  | 25.0                 | 33.0   | 19.0                | 23.0  | 16.0              | 17.0  | 69.0                  | 52.0   | -                         | -     | 0.2                     | 1.4   | SW                      | SE    | -             | -     | 1.5                  | 1.9   | 13.0                  | 24.0  |
| 23           | 11.0                 | 17.0  | 26.0                 | 33.0   | 19.0                | 22.0  | 16.0              | 19.0  | 72.0                  | 67.0   | -                         | -     | 0.5                     | 2.1   | SE                      | SE    | -             | -     | 1.6                  | 1.8   | 15.0                  | 24.5  |
| 24           | 11.0                 | 19.0  | 25.0                 | 33.0   | 17.0                | 23.0  | 15.0              | 20.0  | 80.0                  | 75.0   | -                         | -     | 0.7                     | 1.4   | SE                      | SE    | -             | -     | 1.7                  | 1.8   | 14.0                  | 24.0  |
| 25           | 13.0                 | 17.0  | 26.0                 | 33.0   | 17.0                | 22.0  | 15.0              | 19.0  | 80.0                  | 67.0   | -                         | 2.0   | 0.7                     | 2.5   | SW                      | SW    | -             | -     | 1.8                  | 1.9   | 15.0                  | 24.0  |
| 26           | 11.0                 | 16.0  | 26.0                 | 33.0   | 15.0                | 22.0  | 13.0              | 20.0  | 78.0                  | 82.0   | -                         | 2.0   | 0.3                     | 2.2   | SW                      | SW    | -             | -     | 1.7                  | 1.8   | 13.0                  | 24.5  |
| 27           | 10.0                 | 16.0  | 25.0                 | 32.0   | 17.0                | 22.0  | 14.0              | 20.0  | 70.0                  | 82.0   | -                         | 2.0   | 0.6                     | 2.0   | SW                      | SW    | -             | -     | 1.7                  | 1.7   | 14.0                  | 24.0  |
| 28           | 12.0                 | 17.0  | 25.0                 | 32.0   | 14.0                | 22.0  | 12.0              | 20.0  | 78.0                  | 82.0   | -                         | -     | 0.2                     | 1.2   | SW                      | SE    | -             | -     | 1.6                  | 1.8   | 12.0                  | 24.5  |
| 29           | 11.0                 | 14.0  | 25.0                 | 34.0   | 14.0                | 24.0  | 12.0              | 18.0  | 78.0                  | 53.0   | -                         | 2.0   | 1.0                     | 2.4   | SW                      | SE    | -             | -     | 1.7                  | 1.8   | 12.0                  | 24.0  |
| 30           | 10.0                 | 17.0  | 26.0                 | 35.0   | 16.0                | 25.0  | 14.0              | 21.0  | 79.0                  | 68.0   | -                         | -     | 0.8                     | 1.1   | SE                      | SE    | -             | -     | 1.6                  | 1.7   | 12.0                  | 24.5  |
| 31           | 10.0                 |       | 25.0                 |        | 16.0                |       | 14.0              |       | 79.0                  |        | -                         |       | 0.6                     |       | SE                      |       | -             |       | 1.7                  |       | 12.5                  |       |
| Total        | 313.0                | 510.5 | 775.0                | 1008.0 | 509.0               | 697.0 | 424.0             | 596.0 | 2226.0                | 2222.0 | 2.0                       | 8.0   | 16.1                    | 52.7  |                         |       | -             | -     | 50.1                 | 54.4  | 398.5                 | 698.5 |
| Average      | 10.1                 | 16.5  | 25.0                 | 32.5   | 16.4                | 22.5  | 13.7              | 19.2  | 71.8                  | 71.7   | 0.1                       | 0.3   | 0.5                     | 1.7   |                         |       |               |       |                      |       | 12.9                  | 22.5  |
|              | 13.3                 |       | 28.8                 |        | 19.5                |       | 16.5              |       | 71.7                  |        | 0.2                       |       | 1.1                     |       |                         |       | 0.0           |       | 104.5                |       | 17.7                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| February 2018 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | 19.0  |                      | 36.0   |                     | 25.0  |                   | 21.0  |                       | 68.0   |                           | 2.0   |                         | 4.0   |                         | SW    |               | -     |                      | 1.8   |                       | 24.0  |
| 1             | 11.0                 | 18.0  | 27.0                 | 36.0   | 19.0                | 26.0  | 15.0              | 22.0  | 63.0                  | 70.0   | -                         | 2.0   | 0.5                     | 3.9   | NW                      | NW    | -             | -     | 1.7                  | 1.9   | 14.0                  | 24.5  |
| 2             | 11.0                 | 22.0  | 31.0                 | 38.0   | 24.0                | 28.0  | 21.0              | 23.0  | 75.0                  | 64.0   | -                         | -     | 0.4                     | 1.8   | SE                      | E     | -             | -     | 1.6                  | 1.8   | 14.0                  | 24.0  |
| 3             | 12.0                 | 23.0  | 32.0                 | 38.0   | 18.0                | 28.0  | 15.0              | 23.0  | 71.0                  | 64.0   | -                         | -     | 0.2                     | 0.9   | SE                      | SE    | -             | -     | 1.7                  | 1.9   | 14.0                  | 24.5  |
| 4             | 14.0                 | 23.0  | 32.0                 | 36.0   | 20.0                | 28.0  | 17.0              | 23.0  | 73.0                  | 64.0   | -                         | -     | 0.3                     | 0.8   | SE                      | SE    | -             | -     | 2.0                  | 2.2   | 16.0                  | 26.0  |
| 5             | 14.0                 | 23.0  | 32.0                 | 35.0   | 20.0                | 27.0  | 18.0              | 24.0  | 81.0                  | 77.0   | -                         | -     | 1.1                     | 2.0   | SW                      | SE    | -             | -     | 2.1                  | 2.0   | 16.0                  | 26.5  |
| 6             | 15.0                 | 23.0  | 31.0                 | 38.0   | 22.0                | 27.0  | 18.0              | 22.0  | 66.0                  | 63.0   | -                         | -     | 0.2                     | 1.6   | SE                      | SW    | -             | -     | 2.4                  | 2.1   | 16.5                  | 26.0  |
| 7             | 18.0                 | 24.0  | 30.0                 | 34.0   | 23.0                | 28.0  | 18.0              | 21.0  | 59.0                  | 51.0   | -                         | -     | 0.3                     | 2.0   | SE                      | SW    | -             | -     | 2.0                  | 2.2   | 16.0                  | 25.5  |
| 8             | 19.0                 | 25.0  | 30.0                 | 37.0   | 23.0                | 29.0  | 20.0              | 22.0  | 75.0                  | 52.0   | -                         | -     | 0.5                     | 2.4   | SW                      | SW    | -             | -     | 2.0                  | 2.1   | 17.0                  | 25.0  |
| 9             | 17.0                 | 24.0  | 31.0                 | 35.0   | 23.0                | 29.0  | 19.0              | 21.0  | 67.0                  | 46.0   | -                         | -     | 0.3                     | 1.9   | SE                      | SE    | -             | -     | 1.9                  | 2.0   | 17.5                  | 25.0  |
| 10            | 17.0                 | 24.0  | 31.0                 | 36.0   | 20.0                | 29.0  | 18.0              | 22.0  | 81.0                  | 52.0   | -                         | 2.0   | 0.2                     | 2.9   | SW                      | E     | -             | -     | 1.8                  | 2.0   | 18.0                  | 25.0  |
| 11            | 18.0                 | 24.0  | 31.0                 | 33.0   | 18.0                | 28.0  | 16.0              | 25.0  | 80.0                  | 77.0   | 2.0                       | -     | 1.1                     | 1.9   | SW                      | SW    | -             | -     | 1.9                  | 2.0   | 18.0                  | 25.0  |
| 12            | 17.0                 | 24.0  | 29.0                 | 34.0   | 18.0                | 28.0  | 17.0              | 25.0  | 90.0                  | 77.0   | 2.0                       | -     | 2.7                     | 2.8   | SE                      | SW    | 2.4           | -     | 2.4                  | 2.1   | 18.0                  | 25.5  |
| 13            | 16.0                 | 22.0  | 30.0                 | 34.0   | 19.0                | 27.0  | 17.0              | 25.0  | 81.0                  | 84.0   | 2.0                       | 2.0   | 1.3                     | 2.6   | SW                      | SW    | -             | -     | 1.8                  | 1.8   | 18.0                  | 25.0  |
| 14            | 17.0                 | 21.0  | 29.0                 | 34.0   | 20.0                | 28.0  | 17.0              | 22.0  | 73.0                  | 57.0   | -                         | 2.0   | 2.2                     | 3.9   | SE                      | SE    | -             | -     | 1.9                  | 1.9   | 18.0                  | 24.5  |
| 15            | 15.0                 | 22.0  | 29.0                 | 34.0   | 21.0                | 25.0  | 19.0              | 21.0  | 82.0                  | 68.0   | 2.0                       | 2.0   | 0.6                     | 2.3   | SE                      | SE    | -             | -     | 1.8                  | 2.1   | 17.5                  | 25.0  |
| 16            | 15.0                 | 25.0  | 29.0                 | 34.0   | 20.0                | 26.0  | 18.0              | 20.0  | 81.0                  | 55.0   | -                         | -     | 1.3                     | 2.3   | SE                      | NE    | -             | -     | 1.7                  | 2.4   | 17.0                  | 26.0  |
| 17            | 14.0                 | 25.0  | 29.0                 | 36.0   | 21.0                | 27.0  | 17.0              | 20.0  | 65.0                  | 50.0   | -                         | 2.0   | 0.3                     | 3.2   | SW                      | SW    | -             | -     | 1.9                  | 2.0   | 17.0                  | 27.0  |
| 18            | 14.0                 | 26.0  | 30.0                 | 36.0   | 22.0                | 29.0  | 17.0              | 23.0  | 58.0                  | 58.0   | -                         | 2.0   | 0.9                     | 2.3   | E                       | SE    | -             | -     | 2.2                  | 2.6   | 18.0                  | 29.0  |
| 19            | 15.0                 | 26.0  | 31.0                 | 37.0   | 20.0                | 28.0  | 16.0              | 24.0  | 64.0                  | 70.0   | -                         | -     | 0.2                     | 2.6   | NE                      | E     | -             | -     | 2.0                  | 2.2   | 17.0                  | 28.0  |
| 20            | 15.0                 | 26.0  | 31.0                 | 36.0   | 22.0                | 29.0  | 18.0              | 24.0  | 66.0                  | 64.0   | -                         | 2.0   | 0.4                     | 3.0   | SW                      | E     | -             | -     | 2.1                  | 2.4   | 20.0                  | 28.0  |
| 21            | 17.0                 | 26.0  | 32.0                 | 37.0   | 23.0                | 28.0  | 19.0              | 24.0  | 67.0                  | 70.0   | -                         | 2.0   | 0.4                     | 3.2   | SW                      | SE    | -             | -     | 2.0                  | 2.2   | 20.0                  | 28.0  |
| 22            | 14.0                 | 26.0  | 31.0                 | 38.0   | 20.0                | 28.0  | 16.0              | 24.0  | 64.0                  | 70.0   | -                         | -     | 0.2                     | 2.6   | N                       | SE    | -             | -     | 2.1                  | 2.4   | 17.0                  | 28.0  |
| 23            | 15.0                 | 22.0  | 31.0                 | 38.0   | 20.0                | 28.0  | 17.0              | 24.0  | 73.0                  | 70.0   | -                         | 2.0   | 0.1                     | 2.1   | SE                      | NW    | -             | -     | 2.0                  | 2.1   | 18.0                  | 28.5  |
| 24            | 16.0                 | 24.0  | 33.0                 | 40.0   | 24.0                | 30.0  | 18.0              | 24.0  | 53.0                  | 59.0   | -                         | -     | 0.1                     | 2.2   | NW                      | N     | -             | -     | 2.6                  | 2.8   | 18.5                  | 28.5  |
| 25            | 19.0                 | 26.0  | 34.0                 | 40.0   | 26.0                | 31.0  | 20.0              | 24.0  | 55.0                  | 53.0   | -                         | -     | 0.3                     | 2.0   | E                       | SE    | -             | -     | 2.4                  | 2.8   | 20.0                  | 29.0  |
| 26            | 18.0                 | 23.0  | 34.0                 | 38.0   | 22.0                | 28.0  | 19.0              | 22.0  | 67.0                  | 52.0   | -                         | 2.0   | 0.3                     | 3.0   | NW                      | NW    | -             | -     | 2.2                  | 2.6   | 20.0                  | 29.0  |
| 27            | 18.0                 | 25.0  | 31.0                 | 39.0   | 25.0                | 29.0  | 19.0              | 22.0  | 54.0                  | 52.0   | 4.0                       | 2.0   | 0.3                     | 3.8   | SW                      | NW    | -             | -     | 2.4                  | 2.8   | 20.0                  | 29.0  |
| 28            | 16.0                 |       | 31.0                 |        | 23.0                |       | 18.0              |       | 59.0                  |        | -                         |       | 0.4                     |       | SW                      |       | -             |       | 2.2                  |       | 20.5                  |       |
| Total         | 437.0                | 661.0 | 862.0                | 1017.0 | 596.0               | 781.0 | 497.0             | 637.0 | 1943.0                | 1757.0 | 12.0                      | 26.0  | 17.1                    | 70.0  |                         |       | 2.4           | -     | 56.8                 | 61.2  | 491.5                 | 739.0 |
| Average       | 15.6                 | 23.6  | 30.8                 | 36.3   | 21.3                | 27.9  | 17.8              | 22.8  | 69.4                  | 62.8   | 0.4                       | 0.9   | 0.6                     | 2.5   |                         |       |               |       |                      |       | 17.6                  | 26.4  |
|               | 19.6                 |       | 33.6                 |        | 24.6                |       | 20.3              |       | 66.1                  |        | 0.7                       |       | 1.6                     |       |                         |       | 2.4           |       | 118.0                |       | 22.0                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 - N.A.

| March 2018 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM        |                      | 23.0  |                      | 39.0   |                     | 30.0  |                   | 22.0  |                       | 47.0   |                           | -     |                         | 3.1   |                         | NE    |               | -     |                      | 2.7   |                       | 29.0  |
| 1          | 16.0                 | 21.0  | 30.0                 | 40.0   | 21.0                | 31.0  | 17.0              | 25.0  | 65.0                  | 60.0   | -                         | -     | 0.3                     | 2.4   | SE                      | NE    | -             | -     | 2.6                  | 3.2   | 20.0                  | 29.0  |
| 2          | 17.0                 | 21.0  | 31.0                 | 40.0   | 22.0                | 32.0  | 19.0              | 27.0  | 74.0                  | 67.0   | -                         | -     | 0.6                     | 0.8   | SE                      | NE    | -             | -     | 2.6                  | 2.8   | 21.5                  | 29.5  |
| 3          | 19.0                 | 23.0  | 31.0                 | 40.0   | 23.0                | 31.0  | 20.0              | 23.0  | 75.0                  | 48.0   | -                         | 2.0   | 0.5                     | 2.6   | SE                      | NE    | -             | -     | 2.8                  | 3.4   | 22.5                  | 29.0  |
| 4          | 19.0                 | 22.0  | 30.0                 | 41.0   | 22.0                | 29.0  | 19.0              | 23.0  | 74.0                  | 58.0   | -                         | 2.0   | 0.2                     | 2.8   | NE                      | SE    | -             | -     | 2.6                  | 3.0   | 21.0                  | 29.5  |
| 5          | 21.0                 | 24.0  | 32.0                 | 39.0   | 24.0                | 28.0  | 19.0              | 21.0  | 54.0                  | 51.0   | -                         | -     | 0.3                     | 4.9   | SE                      | NE    | -             | -     | 2.7                  | 2.6   | 22.0                  | 29.0  |
| 6          | 20.0                 | 25.0  | 31.0                 | 41.0   | 24.0                | 30.0  | 19.0              | 24.0  | 54.0                  | 59.0   | -                         | -     | 1.8                     | 2.0   | SE                      | NE    | -             | -     | 2.7                  | 3.0   | 22.0                  | 29.0  |
| 7          | 20.0                 | 22.0  | 32.0                 | 39.0   | 22.0                | 30.0  | 20.0              | 23.0  | 82.0                  | 53.0   | -                         | 2.0   | 0.4                     | 4.3   | NE                      | NE    | -             | -     | 2.5                  | 2.8   | 21.5                  | 29.0  |
| 8          | 19.0                 | 21.0  | 32.0                 | 36.0   | 21.0                | 30.0  | 19.0              | 21.0  | 82.0                  | 42.0   | -                         | 2.0   | 0.4                     | 4.7   | SE                      | NE    | -             | -     | 2.6                  | 2.7   | 21.0                  | 29.0  |
| 9          | 19.0                 | 28.0  | 32.0                 | 35.0   | 22.0                | 29.0  | 20.0              | 21.0  | 82.0                  | 46.0   | -                         | -     | 1.3                     | 2.4   | NE                      | E     | -             | -     | 2.6                  | 2.4   | 21.0                  | 27.0  |
| 10         | 18.0                 | 30.0  | 32.0                 | 40.0   | 28.0                | 30.0  | 21.0              | 22.0  | 51.0                  | 47.0   | -                         | -     | 0.4                     | 3.1   | NE                      | E     | -             | -     | 2.7                  | 2.8   | 22.0                  | 29.0  |
| 11         | 18.0                 | 29.0  | 32.0                 | 38.0   | 26.0                | 29.0  | 20.0              | 21.0  | 55.0                  | 46.0   | -                         | -     | 0.3                     | 2.0   | NE                      | E     | -             | -     | 2.4                  | 2.6   | 21.0                  | 28.5  |
| 12         | 21.0                 | 22.0  | 32.0                 | 39.0   | 27.0                | 32.0  | 21.0              | 23.0  | 56.0                  | 44.0   | -                         | -     | 0.3                     | 4.1   | SW                      | SE    | -             | -     | 2.2                  | 2.7   | 23.0                  | 29.0  |
| 13         | 21.0                 | 26.0  | 33.0                 | 40.0   | 26.0                | 32.0  | 21.0              | 24.0  | 62.0                  | 49.0   | -                         | -     | 0.5                     | 3.4   | NW                      | NE    | -             | -     | 2.4                  | 2.6   | 21.0                  | 28.5  |
| 14         | 19.0                 | 23.0  | 31.0                 | 42.0   | 23.0                | 33.0  | 19.0              | 22.0  | 63.0                  | 35.0   | -                         | -     | 0.5                     | 2.3   | NW                      | SE    | -             | -     | 2.3                  | 3.0   | 21.0                  | 29.0  |
| 15         | 19.0                 | 22.0  | 30.0                 | 39.0   | 25.0                | 30.0  | 21.0              | 22.0  | 68.0                  | 47.0   | -                         | -     | 0.9                     | 2.0   | NE                      | SW    | -             | -     | 3.2                  | 3.6   | 22.5                  | 30.0  |
| 16         | 20.0                 | 22.0  | 29.0                 | 39.0   | 23.0                | 22.0  | 21.0              | 20.0  | 84.0                  | 82.0   | -                         | -     | 0.9                     | 1.6   | NE                      | SW    | -             | 1.6   | 3.0                  | 3.2   | 22.5                  | 29.0  |
| 17         | 19.0                 | 22.0  | 23.0                 | 36.0   | 22.0                | 30.0  | 20.0              | 23.0  | 82.0                  | 53.0   | -                         | -     | 0.5                     | 4.7   | NE                      | SW    | -             | -     | 2.8                  | 2.7   | 21.0                  | 29.5  |
| 18         | 20.0                 | 23.0  | 30.0                 | 39.0   | 23.0                | 30.0  | 20.0              | 22.0  | 75.0                  | 47.0   | -                         | -     | 0.2                     | 4.3   | SW                      | SW    | -             | -     | 2.9                  | 3.1   | 20.0                  | 30.0  |
| 19         | 19.0                 | 22.0  | 33.0                 | 41.0   | 22.0                | 33.0  | 18.0              | 22.0  | 66.0                  | 35.0   | -                         | -     | 0.6                     | 3.2   | SE                      | E     | -             | -     | 3.2                  | 3.4   | 20.0                  | 30.0  |
| 20         | 19.0                 | 27.0  | 33.0                 | 41.0   | 25.0                | 31.0  | 21.0              | 21.0  | 68.0                  | 37.0   | -                         | -     | 0.3                     | 2.7   | SW                      | NE    | -             | -     | 3.0                  | 3.6   | 21.0                  | 30.0  |
| 21         | 20.0                 | 25.0  | 23.0                 | 39.0   | 24.0                | 31.0  | 20.0              | 24.0  | 64.0                  | 55.5   | -                         | -     | 0.1                     | 2.9   | SE                      | NE    | -             | -     | 3.2                  | 3.8   | 21.0                  | 29.0  |
| 22         | 22.0                 | 24.0  | 29.0                 | 41.0   | 25.0                | 32.0  | 20.0              | 25.0  | 61.0                  | 55.0   | -                         | -     | 0.7                     | 3.2   | SE                      | NE    | -             | -     | 3.6                  | 3.8   | 21.0                  | 30.0  |
| 23         | 21.0                 | 26.0  | 30.0                 | 43.0   | 30.0                | 32.0  | 21.0              | 25.0  | 42.0                  | 55.0   | -                         | -     | 0.5                     | 3.3   | SW                      | NW    | -             | -     | 3.4                  | 4.0   | 23.0                  | 31.0  |
| 24         | 20.0                 | 23.0  | 34.0                 | 41.0   | 22.0                | 33.0  | 20.0              | 22.0  | 82.0                  | 35.0   | -                         | -     | 0.4                     | 3.4   | SE                      | SE    | -             | -     | 3.2                  | 3.4   | 23.0                  | 30.0  |
| 25         | 21.0                 | 25.0  | 34.0                 | 40.0   | 22.0                | 32.0  | 19.0              | 25.0  | 74.0                  | 55.0   | -                         | -     | 0.4                     | 4.1   | SE                      | SE    | -             | -     | 3.2                  | 3.8   | 22.5                  | 30.0  |
| 26         | 21.0                 | 25.0  | 33.0                 | 40.0   | 25.0                | 32.0  | 19.0              | 23.0  | 54.0                  | 49.0   | -                         | -     | 0.5                     | 3.4   | SW                      | SE    | -             | -     | 3.4                  | 3.0   | 23.0                  | 29.5  |
| 27         | 20.0                 | 25.0  | 31.0                 | 42.0   | 22.0                | 32.0  | 19.0              | 23.0  | 74.0                  | 49.0   | -                         | -     | 0.4                     | 3.2   | SE                      | NE    | -             | -     | 3.2                  | 3.2   | 21.0                  | 30.0  |
| 28         | 22.0                 | 26.0  | 33.0                 | 42.0   | 23.0                | 33.0  | 20.0              | 23.0  | 75.0                  | 40.0   | -                         | -     | 1.7                     | 0.8   | SW                      | NE    | -             | -     | 3.0                  | 3.4   | 22.0                  | 30.0  |
| 29         | 20.0                 | 26.0  | 35.0                 | 42.0   | 28.0                | 33.0  | 21.0              | 23.0  | 51.0                  | 40.0   | -                         | -     | 0.2                     | 1.0   | SE                      | NE    | -             | -     | 3.2                  | 3.8   | 22.0                  | 30.0  |
| 30         | 22.0                 | 34.0  | 33.0                 | 42.0   | 28.0                | 35.0  | 21.0              | 25.0  | 51.0                  | 42.0   | -                         | -     | 1.7                     | 3.9   | SE                      | NE    | -             | -     | 3.4                  | 3.8   | 23.0                  | 29.5  |
| 31         | 25.0                 |       | 38.0                 |        | 30.0                |       | 25.0              |       | 65.0                  |        | -                         |       | 0.5                     |       | SE                      |       | -             |       | 3.2                  |       | 23.0                  |       |
| Total      | 617.0                | 757.0 | 972.0                | 1236.0 | 750.0               | 957.0 | 620.0             | 710.0 | 2065.0                | 1528.5 | -                         | 8.0   | 17.8                    | 92.4  |                         |       | -             | 1.6   | 89.8                 | 97.9  | 672.0                 | 910.5 |
| Average    | 19.9                 | 24.4  | 31.4                 | 39.9   | 24.2                | 30.9  | 20.0              | 22.9  | 66.6                  | 49.3   | -                         | 0.3   | 0.6                     | 3.0   |                         |       |               |       |                      |       | 21.7                  | 29.4  |
|            | 22.2                 |       | 35.6                 |        | 27.5                |       | 21.5              |       | 58.0                  |        | 0.1                       |       | 1.8                     |       |                         |       | 1.6           |       | 187.7                |       | 25.5                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 N.A.

| April 2018 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM        |                      | 25.0  |                      | 44.0   |                     | 35.0  |                   | 24.0  |                       | 37.0   |                           | -     |                         | 3.1   |                         | SE    |               | -     |                      | 3.8   |                       | 30.0  |
| 1          | 24.0                 | 26.0  | 36.0                 | 40.0   | 26.0                | 26.0  | 23.0              | 21.0  | 76.0                  | 62.0   | -                         | -     | 1.0                     | 4.5   | NE                      | SW    | -             | 4.2   | 3.0                  | 4.2   | 24.0                  | 28.5  |
| 2          | 19.0                 | 22.0  | 38.0                 | 38.0   | 22.0                | 30.0  | 19.0              | 24.0  | 74.0                  | 59.0   | -                         | -     | 1.4                     | 3.6   | NW                      | N     | -             | -     | 3.0                  | 3.4   | 23.5                  | 28.0  |
| 3          | 22.0                 | 26.0  | 30.0                 | 40.0   | 26.0                | 33.0  | 22.0              | 24.0  | 69.0                  | 45.0   | -                         | -     | 0.4                     | 3.7   | NW                      | E     | -             | -     | 2.6                  | 3.2   | 23.0                  | 28.0  |
| 4          | 23.0                 | 27.0  | 30.0                 | 41.0   | 25.0                | 33.0  | 23.0              | 26.0  | 76.0                  | 55.5   | -                         | -     | 1.0                     | 3.4   | NE                      | E     | -             | -     | 2.8                  | 3.8   | 23.5                  | 29.0  |
| 5          | 23.0                 | 25.0  | 31.0                 | 43.0   | 26.0                | 33.0  | 22.0              | 26.0  | 69.0                  | 55.5   | -                         | -     | 0.6                     | 2.2   | SW                      | NE    | -             | -     | 2.9                  | 3.0   | 25.0                  | 29.0  |
| 6          | 25.0                 | 29.0  | 32.0                 | 44.0   | 28.0                | 33.0  | 24.0              | 25.0  | 70.0                  | 50.0   | -                         | 2.0   | 0.6                     | 3.0   | SE                      | NE    | -             | -     | 2.7                  | 3.6   | 25.0                  | 31.0  |
| 7          | 25.0                 | 29.0  | 31.0                 | 43.0   | 28.0                | 32.0  | 22.0              | 26.0  | 57.0                  | 61.0   | -                         | -     | 2.1                     | 1.3   | NE                      | NE    | -             | -     | 2.6                  | 3.0   | 24.0                  | 29.0  |
| 8          | 23.0                 | 25.0  | 29.0                 | 39.0   | 27.0                | 30.0  | 21.0              | 25.0  | 56.0                  | 65.0   | -                         | -     | 5.1                     | 2.9   | NE                      | SW    | 6.2           | -     | 3.0                  | 2.8   | 24.0                  | 29.5  |
| 9          | 25.0                 | 27.0  | 32.0                 | 39.0   | 26.0                | 30.0  | 22.0              | 25.0  | 69.0                  | 65.0   | -                         | -     | 0.2                     | 1.1   | SW                      | SW    | -             | -     | 3.2                  | 3.1   | 25.5                  | 29.5  |
| 10         | 23.0                 | 24.0  | 32.0                 | 40.0   | 24.0                | 33.0  | 22.0              | 26.0  | 83.0                  | 55.5   | -                         | -     | 2.7                     | 2.8   | SW                      | NE    | 0.6           | -     | 3.0                  | 3.2   | 25.5                  | 30.0  |
| 11         | 25.0                 | 25.0  | 33.0                 | 42.0   | 25.0                | 35.0  | 21.0              | 27.0  | 68.0                  | 53.0   | -                         | -     | 0.3                     | 3.7   | SE                      | NE    | -             | -     | 3.2                  | 3.4   | 26.5                  | 29.5  |
| 12         | 26.0                 | 28.0  | 35.0                 | 40.0   | 30.0                | 32.0  | 25.0              | 24.0  | 65.0                  | 49.0   | -                         | -     | 0.4                     | 5.5   | SE                      | SE    | -             | -     | 3.3                  | 3.6   | 25.0                  | 30.0  |
| 13         | 25.0                 | 28.0  | 34.0                 | 41.0   | 28.0                | 34.0  | 22.0              | 25.0  | 57.0                  | 41.0   | -                         | -     | 0.6                     | 2.2   | SE                      | NE    | -             | -     | 3.4                  | 3.6   | 24.0                  | 32.0  |
| 14         | 25.0                 | 28.0  | 37.0                 | 43.0   | 31.0                | 34.0  | 23.0              | 26.0  | 48.0                  | 51.0   | -                         | -     | 0.3                     | 3.4   | SW                      | NE    | -             | -     | 3.5                  | 3.5   | 25.0                  | 32.0  |
| 15         | 26.0                 | 30.0  | 34.0                 | 43.0   | 28.0                | 34.0  | 22.0              | 26.0  | 57.0                  | 51.0   | -                         | -     | 1.5                     | 3.7   | SE                      | SE    | -             | -     | 3.4                  | 3.8   | 25.5                  | 32.0  |
| 16         | 25.0                 | 29.0  | 32.0                 | 42.0   | 28.0                | 35.0  | 22.0              | 26.0  | 52.0                  | 47.0   | -                         | -     | 1.0                     | 4.1   | SW                      | NE    | -             | -     | 3.0                  | 3.8   | 26.0                  | 32.0  |
| 17         | 28.0                 | 28.0  | 36.0                 | 44.0   | 30.0                | 30.0  | 24.0              | 25.0  | 59.0                  | 65.0   | -                         | -     | 0.1                     | 2.9   | SW                      | NE    | -             | 8.2   | 3.6                  | 3.4   | 27.0                  | 30.0  |
| 18         | 25.0                 | 30.0  | 30.0                 | 42.0   | 30.0                | 33.0  | 24.0              | 28.0  | 59.0                  | 67.5   | -                         | -     | 0.7                     | 4.6   | SE                      | SE    | 0.6           | -     | 3.4                  | 3.8   | 27.0                  | 30.0  |
| 19         | 26.0                 | 32.0  | 34.0                 | 43.0   | 32.0                | 32.0  | 25.0              | 25.0  | 55.0                  | 55.0   | -                         | -     | 0.4                     | 3.7   | NE                      | NE    | -             | -     | 3.2                  | 3.6   | 28.0                  | 29.5  |
| 20         | 26.0                 | 30.0  | 36.0                 | 45.0   | 30.0                | 36.0  | 25.0              | 27.0  | 65.0                  | 48.0   | -                         | -     | 0.4                     | 4.0   | NE                      | SE    | -             | -     | 3.6                  | 3.6   | 28.0                  | 31.0  |
| 21         | 28.0                 | 30.0  | 38.0                 | 45.0   | 32.0                | 38.0  | 26.0              | 28.0  | 61.0                  | 45.0   | -                         | -     | 0.5                     | 4.7   | SE                      | SE    | -             | -     | 3.8                  | 4.2   | 28.5                  | 31.5  |
| 22         | 28.0                 | 30.0  | 40.0                 | 45.0   | 28.0                | 38.0  | 24.0              | 28.0  | 70.0                  | 45.0   | -                         | -     | 0.9                     | 3.5   | SE                      | SW    | -             | -     | 3.6                  | 4.5   | 28.0                  | 32.0  |
| 23         | 30.0                 | 30.0  | 38.0                 | 42.0   | 30.0                | 35.0  | 25.0              | 26.0  | 65.0                  | 47.0   | -                         | -     | 0.9                     | 4.6   | SW                      | SW    | -             | -     | 4.0                  | 4.4   | 29.0                  | 32.0  |
| 24         | 26.0                 | 28.0  | 38.0                 | 44.0   | 31.0                | 32.0  | 25.0              | 24.0  | 60.0                  | 49.0   | -                         | -     | 1.1                     | 3.4   | NE                      | SW    | -             | -     | 3.8                  | 4.0   | 29.0                  | 31.5  |
| 25         | 25.0                 | 28.0  | 38.0                 | 44.0   | 30.0                | 32.0  | 23.0              | 25.0  | 53.0                  | 55.0   | -                         | -     | 1.4                     | 4.0   | SE                      | SW    | -             | -     | 3.6                  | 4.2   | 28.5                  | 32.0  |
| 26         | 25.0                 | 29.0  | 36.0                 | 44.0   | 30.0                | 32.0  | 24.0              | 25.0  | 54.0                  | 55.0   | -                         | -     | 0.3                     | 4.8   | NE                      | NW    | -             | -     | 3.9                  | 4.0   | 28.0                  | 32.0  |
| 27         | 25.0                 | 29.0  | 36.0                 | 44.0   | 31.0                | 32.0  | 25.0              | 24.0  | 60.0                  | 49.0   | -                         | 2.0   | 1.5                     | 2.9   | SW                      | SE    | -             | -     | 3.7                  | 4.4   | 28.0                  | 32.0  |
| 28         | 25.0                 | 30.0  | 36.0                 | 44.0   | 31.0                | 32.0  | 25.0              | 24.0  | 60.0                  | 49.0   | 2.0                       | -     | 1.3                     | 2.3   | NE                      | NE    | -             | -     | 3.9                  | 4.2   | 28.5                  | 31.5  |
| 29         | 25.0                 | 30.0  | 30.0                 | 44.0   | 25.0                | 32.0  | 25.0              | 24.0  | 84.0                  | 49.0   | 2.0                       | -     | 2.6                     | 2.1   | SE                      | SE    | 9.2           | -     | 4.4                  | 4.0   | 25.5                  | 30.0  |
| 30         | 25.0                 |       | 30.0                 |        | 30.0                |       | 25.0              |       | 65.0                  |        | 2.0                       |       | 1.6                     |       | SE                      |       | 0.8           |       | 3.6                  |       | 24.0                  |       |
| Total      | 751.0                | 837.0 | 1022.0               | 1272.0 | 848.0               | 986.0 | 700.0             | 759.0 | 1916.0                | 1581.0 | 6.0                       | 4.0   | 32.6                    | 101.6 |                         |       | 17.4          | 12.4  | 100.7                | 111.1 | 782.0                 | 914.0 |
| Average    | 25.0                 | 27.9  | 34.1                 | 42.4   | 28.3                | 32.9  | 23.3              | 25.3  | 63.9                  | 52.7   | 0.2                       | 0.1   | 1.1                     | 3.4   |                         |       |               |       |                      |       | 26.1                  | 30.5  |
|            | 26.5                 |       | 38.2                 |        | 30.6                |       | 24.3              |       | 58.3                  |        | 0.2                       |       | 2.2                     |       |                         |       | 29.8          |       | 211.8                |       | 28.3                  |       |

## Twice Daily Climatic Data

Station Code : EMG00E5

Local River/Basin : Ong

Station Name : SALEBHATA

Sub-Division : MMSD II,CWC,Burla

- 0.0 N.A.

| May 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|----------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|          | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day      | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM      |                      | 30.0  |                      | 42.0   |                     | 32.0   |                   | 25.0  |                       | 44.0   |                           | 2.0   |                         | 3.7   |                         | SE    |               | -     |                      | 4.0   |                       | 30.0  |
| 1        | 25.0                 | 26.0  | 30.0                 | 41.0   | 27.0                | 31.0   | 23.0              | 25.0  | 70.0                  | 60.0   | -                         | 2.0   | 2.5                     | 3.9   | SE                      | SE    | 2.2           | -     | 3.7                  | 4.0   | 24.5                  | 29.5  |
| 2        | 24.0                 | 25.0  | 30.0                 | 41.0   | 28.0                | 30.0   | 24.0              | 25.0  | 70.0                  | 77.0   | -                         | -     | 0.9                     | 3.5   | SE                      | SE    | 1.2           | -     | 3.4                  | 4.2   | 24.0                  | 29.0  |
| 3        | 24.0                 | 27.0  | 30.0                 | 40.0   | 27.0                | 34.0   | 22.0              | 24.0  | 63.0                  | 43.0   | 2.0                       | 2.0   | 2.9                     | 4.4   | NE                      | NE    | -             | -     | 3.8                  | 4.0   | 23.5                  | 29.5  |
| 4        | 26.0                 | 31.0  | 32.0                 | 43.0   | 30.0                | 35.0   | 24.0              | 24.0  | 59.0                  | 37.0   | -                         | -     | 0.4                     | 3.2   | NE                      | SW    | -             | -     | 3.6                  | 4.2   | 23.0                  | 29.0  |
| 5        | 28.0                 | 34.0  | 34.0                 | 45.0   | 33.0                | 38.0   | 25.0              | 26.0  | 50.0                  | 36.0   | -                         | -     | 0.4                     | 4.1   | NE                      | NE    | -             | -     | 3.8                  | 4.1   | 24.0                  | 29.5  |
| 6        | 28.0                 | 31.0  | 33.0                 | 46.0   | 30.0                | 38.0   | 26.0              | 26.0  | 72.0                  | 36.0   | -                         | -     | 0.4                     | 1.3   | SE                      | SE    | -             | -     | 3.7                  | 4.2   | 24.0                  | 30.0  |
| 7        | 29.0                 | 36.0  | 33.0                 | 46.0   | 33.0                | 40.0   | 26.0              | 28.0  | 54.0                  | 38.0   | 2.0                       | 2.0   | 3.1                     | 4.4   | SW                      | SW    | -             | -     | 3.8                  | 4.4   | 25.0                  | 31.0  |
| 8        | 32.0                 | 36.0  | 39.0                 | 45.0   | 35.0                | 38.0   | 27.0              | 27.0  | 52.0                  | 40.0   | -                         | -     | 1.0                     | 3.0   | SE                      | SW    | -             | -     | 4.2                  | 4.6   | 26.0                  | 31.5  |
| 9        | 34.0                 | 36.0  | 40.0                 | 45.0   | 33.0                | 38.0   | 26.0              | 27.0  | 55.0                  | 40.0   | -                         | -     | 1.3                     | 3.0   | SE                      | SE    | -             | -     | 4.0                  | 4.6   | 26.5                  | 32.0  |
| 10       | 31.0                 | 34.0  | 40.0                 | 46.0   | 33.0                | 35.0   | 26.0              | 27.0  | 55.0                  | 42.0   | -                         | 2.0   | 0.9                     | 4.2   | SW                      | SE    | -             | -     | 4.2                  | 4.5   | 28.0                  | 32.0  |
| 11       | 30.0                 | 35.0  | 39.0                 | 45.0   | 34.0                | 35.0   | 27.0              | 25.0  | 57.0                  | 53.0   | -                         | 2.0   | 0.6                     | 5.3   | SW                      | SW    | -             | -     | 4.0                  | 4.6   | 26.0                  | 32.0  |
| 12       | 26.0                 | 35.0  | 38.0                 | 45.0   | 32.0                | 35.0   | 26.0              | 27.0  | 64.0                  | 53.0   | -                         | -     | 1.0                     | 2.9   | SE                      | SW    | -             | -     | 4.1                  | 4.6   | 26.0                  | 31.5  |
| 13       | 26.5                 | 35.0  | 39.0                 | 45.0   | 30.0                | 36.0   | 23.0              | 28.0  | 63.0                  | 53.0   | -                         | 2.0   | 2.0                     | 3.2   | SE                      | SE    | -             | -     | 4.2                  | 4.4   | 26.5                  | 32.0  |
| 14       | 28.0                 | 25.0  | 38.0                 | 36.0   | 28.0                | 28.0   | 24.0              | 25.0  | 70.0                  | 77.0   | -                         | 2.0   | 1.8                     | 3.0   | NE                      | NE    | -             | 4.0   | 4.0                  | 4.6   | 26.0                  | 27.0  |
| 15       | 23.0                 | 27.0  | 33.0                 | 41.0   | 28.0                | 28.0   | 22.0              | 24.0  | 67.0                  | 70.0   | -                         | -     | 2.6                     | 2.6   | NE                      | NE    | -             | -     | 4.0                  | 3.6   | 25.0                  | 29.0  |
| 16       | 26.0                 | 31.0  | 33.0                 | 42.0   | 28.0                | 29.0   | 24.0              | 25.0  | 70.0                  | 71.0   | -                         | -     | 0.4                     | 3.4   | NE                      | SW    | -             | -     | 3.8                  | 3.9   | 26.0                  | 29.0  |
| 17       | 28.0                 | 32.0  | 36.0                 | 45.0   | 30.0                | 33.0   | 25.0              | 25.0  | 65.0                  | 50.0   | -                         | -     | 0.9                     | 3.5   | SE                      | NE    | -             | -     | 3.7                  | 4.0   | 23.0                  | 30.0  |
| 18       | 27.5                 | 33.0  | 36.0                 | 45.0   | 32.0                | 35.0   | 24.0              | 26.0  | 49.0                  | 47.0   | 2.0                       | -     | 0.7                     | 3.7   | SW                      | SW    | -             | -     | 3.6                  | 4.2   | 23.0                  | 31.0  |
| 19       | 27.0                 | 32.0  | 38.0                 | 43.0   | 32.0                | 34.0   | 25.0              | 25.0  | 55.0                  | 46.0   | -                         | -     | 1.7                     | 2.0   | SW                      | SW    | 16.6          | -     | 4.0                  | 4.4   | 24.0                  | 31.0  |
| 20       | 26.0                 | 33.0  | 35.0                 | 43.0   | 30.0                | 32.0   | 24.0              | 25.0  | 59.0                  | 55.0   | 2.0                       | 2.0   | 1.7                     | 1.3   | SE                      | SW    | 33.8          | -     | 4.4                  | 3.8   | 23.5                  | 30.0  |
| 21       | 23.0                 | 29.0  | 34.0                 | 39.0   | 28.0                | 33.0   | 25.0              | 28.0  | 77.0                  | 63.0   | -                         | -     | 3.6                     | 1.9   | SW                      | SE    | -             | -     | 3.2                  | 3.9   | 23.0                  | 29.5  |
| 22       | 27.0                 | 28.0  | 35.0                 | 43.0   | 32.0                | 34.0   | 26.0              | 26.0  | 51.0                  | 51.0   | -                         | -     | 0.4                     | 1.1   | SW                      | SE    | -             | -     | 3.8                  | 4.2   | 25.0                  | 30.0  |
| 23       | 28.0                 | 28.0  | 35.0                 | 42.0   | 31.0                | 34.0   | 25.0              | 26.0  | 60.0                  | 51.0   | -                         | -     | 0.9                     | 1.0   | NE                      | SE    | -             | -     | 4.0                  | 4.4   | 26.0                  | 31.0  |
| 24       | 29.0                 | 30.0  | 36.0                 | 43.0   | 32.0                | 36.0   | 26.0              | 27.0  | 61.0                  | 43.0   | -                         | -     | 1.3                     | 1.8   | SE                      | SE    | -             | -     | 3.8                  | 4.2   | 27.0                  | 32.0  |
| 25       | 30.0                 | 31.0  | 36.0                 | 43.0   | 33.0                | 36.0   | 27.0              | 27.0  | 61.5                  | 43.0   | -                         | -     | 0.9                     | 1.8   | SE                      | SE    | -             | -     | 4.0                  | 4.1   | 27.0                  | 32.0  |
| 26       | 29.0                 | 33.0  | 37.0                 | 44.0   | 33.0                | 35.0   | 29.0              | 27.0  | 73.5                  | 52.0   | -                         | -     | 0.8                     | 2.6   | NE                      | SE    | -             | -     | 3.8                  | 4.2   | 27.0                  | 32.0  |
| 27       | 29.0                 | 32.0  | 36.0                 | 43.0   | 32.0                | 34.0   | 25.0              | 28.0  | 67.0                  | 62.0   | -                         | -     | 0.3                     | 2.2   | NE                      | SW    | -             | -     | 3.9                  | 4.0   | 26.5                  | 33.0  |
| 28       | 30.0                 | 35.0  | 36.0                 | 45.0   | 33.0                | 39.0   | 26.0              | 28.0  | 60.0                  | 41.0   | -                         | -     | 0.6                     | 2.1   | NE                      | SE    | -             | -     | 4.2                  | 4.2   | 26.0                  | 33.0  |
| 29       | 31.0                 | 37.0  | 37.0                 | 45.0   | 34.0                | 39.0   | 28.0              | 28.0  | 62.0                  | 41.0   | -                         | -     | 1.4                     | 2.3   | S                       | SW    | -             | -     | 4.2                  | 4.0   | 27.0                  | 33.0  |
| 30       | 27.0                 | 33.0  | 34.0                 | 44.0   | 30.0                | 36.0   | 26.0              | 30.0  | 72.0                  | 63.0   | -                         | -     | 2.6                     | 2.6   | NE                      | SW    | 1.4           | -     | 3.6                  | 4.6   | 27.0                  | 34.0  |
| 31       | 24.0                 |       | 36.0                 |        | 24.0                |        | 23.0              |       | 91.0                  |        | -                         |       | 2.3                     |       | NE                      |       | 31.4          |       | 3.6                  |       | 25.5                  |       |
| Total    | 856.0                | 980.0 | 1098.0               | 1341.0 | 955.0               | 1070.0 | 779.0             | 814.0 | 1955.0                | 1578.0 | 8.0                       | 18.0  | 42.0                    | 89.0  |                         |       | 86.6          | 4.0   | 120.1                | 130.7 | 784.5                 | 955.0 |
| Average  | 27.6                 | 31.6  | 35.4                 | 43.3   | 30.8                | 34.5   | 25.1              | 26.3  | 63.1                  | 50.9   | 0.3                       | 0.6   | 1.4                     | 2.9   |                         |       |               |       |                      |       | 25.3                  | 30.8  |
|          | 29.6                 |       | 39.3                 |        | 32.7                |        | 25.7              |       | 57.0                  |        | 0.4                       |       | 2.1                     |       |                         |       | 90.6          |       | 250.8                |       | 28.1                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| June 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |        |                       |       |
|-----------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|--------|-----------------------|-------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |       |
| Day       | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30 |
| LPOPM     |                      | 31.5  |                      | 41.5   |                     | 30.5  |                   | 25.5  |                       | 65.0   |                           | 2.0   |                         | 0.5   |                         | N     |               | -     |                      | 4.0    |                       | 35.5  |
| 1         | 29.0                 | 31.0  | 36.5                 | 41.5   | 33.5                | 30.0  | 27.5              | 26.0  | 62.0                  | 72.0   | 2.0                       | 2.0   | 0.1                     | 0.5   | SW                      | N     | -             | 0.6   | 1.8                  | 2.7    | 29.5                  | 35.0  |
| 2         | 30.0                 | 33.0  | 35.0                 | 42.0   | 33.0                | 32.0  | 28.0              | 27.0  | 68.0                  | 67.0   | -                         | 2.0   | 0.1                     | 0.4   | N                       | SW    | -             | -     | 1.8                  | 2.5    | 29.5                  | 32.0  |
| 3         | 30.0                 | 30.0  | 33.0                 | 43.0   | 32.0                | 34.0  | 27.0              | 27.5  | 67.0                  | 56.0   | -                         | -     | 0.2                     | 0.2   | N                       | NW    | -             | -     | 2.2                  | 3.0    | 30.0                  | 35.5  |
| 4         | 32.0                 | 35.0  | 37.5                 | 41.5   | 34.0                | 38.0  | 28.0              | 28.5  | 62.0                  | 45.0   | 2.0                       | 2.0   | 0.0                     | 1.0   | NE                      | W     | -             | -     | 2.0                  | 4.6    | 30.0                  | 39.0  |
| 5         | 34.5                 | 32.0  | 41.0                 | 40.0   | 33.0                | 33.5  | 27.0              | 25.0  | 62.0                  | 47.0   | -                         | -     | 0.1                     | 1.0   | W                       | SW    | -             | -     | 3.2                  | 1.2    | 31.0                  | 35.0  |
| 6         | 29.0                 | 28.5  | 37.0                 | 38.0   | 28.0                | 35.5  | 24.0              | 27.0  | 70.0                  | 49.0   | 2.0                       | -     | 0.1                     | 0.7   | SW                      | W     | -             | -     | 1.8                  | 3.1    | 27.0                  | 36.0  |
| 7         | 33.0                 | 30.0  | 38.5                 | 39.0   | 31.0                | 28.0  | 27.0              | 24.5  | 73.0                  | 67.0   | -                         | -     | 0.1                     | 0.5   | N                       | W     | -             | -     | 2.0                  | 2.9    | 29.0                  | 33.0  |
| 8         | 27.5                 | 29.5  | 34.0                 | 38.0   | 29.5                | 33.5  | 26.0              | 28.5  | 74.0                  | 68.0   | -                         | 2.0   | 0.1                     | 0.4   | W                       | SW    | -             | -     | 1.6                  | 2.4    | 28.0                  | 35.0  |
| 9         | 29.0                 | 31.0  | 35.5                 | 39.0   | 30.0                | 30.0  | 26.0              | 28.0  | 72.0                  | 85.0   | -                         | -     | 0.0                     | 0.6   | N                       | SW    | -             | -     | 2.0                  | 3.0    | 29.0                  | 34.0  |
| 10        | 29.0                 | 31.0  | 36.0                 | 39.0   | 30.5                | 35.0  | 26.5              | 28.5  | 72.0                  | 57.0   | -                         | 4.0   | 0.0                     | 0.3   | SW                      | NW    | -             | -     | 0.9                  | 2.5    | 29.0                  | 36.5  |
| 11        | 28.0                 | 26.0  | 33.0                 | 34.0   | 25.0                | 31.0  | 23.0              | 27.5  | 84.0                  | 69.0   | -                         | -     | 0.1                     | 0.1   | SW                      | N     | 4.4           | -     | 1.5                  | 0.6    | 25.5                  | 32.0  |
| 12        | 28.0                 | 29.0  | 34.0                 | 36.0   | 29.0                | 27.0  | 26.0              | 26.0  | 76.0                  | 92.0   | -                         | -     | 0.0                     | 0.4   | N                       | W     | -             | 0.2   | 1.3                  | 1.8    | 29.5                  | 30.5  |
| 13        | 27.0                 | 29.0  | 31.0                 | 36.0   | 28.0                | 32.0  | 25.0              | 27.0  | 77.0                  | 67.0   | 2.0                       | -     | 0.0                     | 0.3   | W                       | NW    | -             | -     | 1.1                  | 2.0    | 27.5                  | 35.0  |
| 14        | 28.0                 | 31.5  | 31.0                 | 37.5   | 30.0                | 32.5  | 26.0              | 27.0  | 72.0                  | 64.0   | 2.0                       | 2.0   | 0.1                     | 0.2   | SW                      | W     | -             | -     | 1.8                  | 2.5    | 28.0                  | 34.0  |
| 15        | 30.0                 | 24.0  | 36.0                 | 38.0   | 30.0                | 24.0  | 27.0              | 23.5  | 78.0                  | 87.0   | -                         | 2.0   | 0.0                     | 0.5   | W                       | NE    | -             | 11.8  | 1.8                  | 3.3    | 29.5                  | 30.0  |
| 16        | 25.0                 | 27.0  | 28.0                 | 34.0   | 26.0                | 30.0  | 24.0              | 25.0  | 84.0                  | 65.0   | -                         | 2.0   | 0.1                     | 0.1   | SW                      | SW    | -             | -     | 1.8                  | 1.7    | 27.0                  | 32.0  |
| 17        | 28.0                 | 30.0  | 33.0                 | 38.0   | 29.0                | 34.0  | 26.0              | 28.0  | 78.0                  | 62.0   | 2.0                       | 2.0   | 0.1                     | 1.2   | W                       | W     | -             | -     | 0.8                  | 2.9    | 29.0                  | 37.5  |
| 18        | 30.0                 | 31.0  | 37.0                 | 39.0   | 31.0                | 29.0  | 27.5              | 26.0  | 69.0                  | 78.0   | 2.0                       | 2.0   | 0.0                     | 0.4   | W                       | SW    | -             | 3.4   | 2.0                  | 1.0    | 30.0                  | 35.0  |
| 19        | 24.0                 | 23.0  | 32.0                 | 35.0   | 22.5                | 32.0  | 21.5              | 27.5  | 91.0                  | 64.0   | 2.0                       | -     | 0.2                     | 0.0   | SE                      | SE    | 33.0          | 0.4   | 7.5                  | 0.6    | 25.0                  | 35.0  |
| 20        | 30.0                 | 25.0  | 35.5                 | 37.0   | 30.0                | 24.0  | 27.0              | 23.5  | 78.0                  | 87.0   | 2.0                       | 2.0   | 0.1                     | 0.0   | SW                      | SW    | 0.4           | 9.2   | ..                   | 4.0    | 29.0                  | 30.0  |
| 21        | 31.0                 | 25.0  | 33.0                 | 35.0   | 26.5                | 24.0  | 26.0              | 23.0  | 96.0                  | 91.0   | -                         | 2.0   | 0.1                     | 0.1   | N                       | SW    | 11.2          | 0.8   | 3.2                  | 1.1    | 26.0                  | 33.0  |
| 22        | 24.0                 | 25.0  | 27.0                 | 34.0   | 24.5                | 31.0  | 24.0              | 27.5  | 96.0                  | 69.0   | 2.0                       | 2.0   | 0.0                     | 0.2   | SW                      | NW    | -             | -     | 1.2                  | 1.8    | 25.0                  | 35.5  |
| 23        | 26.0                 | 28.0  | 33.0                 | 36.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 0.1                     | 0.0   | SW                      | SW    | 5.2           | -     | 1.4                  | 2.0    | 26.5                  | 34.0  |
| 24        | 27.0                 | 28.0  | 32.0                 | 34.0   | 27.5                | 30.0  | 26.5              | 27.0  | 92.0                  | 78.0   | -                         | -     | -                       | 0.0   | W                       | W     | -             | -     | 1.0                  | 1.3    | 28.5                  | 33.0  |
| 25        | 25.0                 | 25.0  | 33.0                 | 30.0   | 25.0                | 27.0  | 24.5              | 25.5  | 88.0                  | 81.0   | -                         | -     | 0.1                     | -     | N                       | N     | 0.3           | 0.6   | 0.8                  | 1.1    | 26.0                  | 29.0  |
| 26        | 26.0                 | 24.0  | 30.0                 | 29.0   | 25.0                | 26.0  | 24.0              | 25.0  | 92.0                  | 92.0   | 6.0                       | 2.0   | 0.0                     | 0.1   | SW                      | SE    | 3.4           | 2.0   | 0.6                  | 8.0    | 26.0                  | 28.0  |
| 27        | 26.0                 | 26.0  | 27.5                 | 28.5   | 25.0                | 26.0  | 24.5              | 25.0  | 88.0                  | 92.0   | -                         | -     | 0.1                     | 0.0   | NW                      | NW    | 0.4           | -     | 0.5                  | ..     | 26.0                  | 28.5  |
| 28        | 26.0                 | 26.0  | 29.0                 | 29.0   | 26.0                | 27.0  | 25.0              | 25.0  | 92.0                  | 84.0   | 2.0                       | 2.0   | 0.0                     | 0.0   | NW                      | NW    | 0.5           | -     | 0.5                  | 0.8    | 26.0                  | 28.0  |
| 29        | 26.0                 | 25.0  | 30.0                 | 31.0   | 25.0                | 28.0  | 24.5              | 26.0  | 88.0                  | 85.0   | -                         | -     | 0.0                     | -     | NW                      | W     | 0.8           | -     | 0.2                  | 1.2    | 26.0                  | 31.0  |
| 30        | 28.0                 |       | 30.0                 |        | 28.5                |       | 26.0              |       | 81.0                  |        | 2.0                       |       | 0.0                     |       | SW                      |       | -             |       | 1.4                  |        | 28.5                  |       |
| Total     | 846.0                | 850.0 | 999.0                | 1093.5 | 854.0               | 903.5 | 770.0             | 788.0 | 2374.0                | 2170.0 | 32.0                      | 36.0  | 1.7                     | 9.8   |                         |       | 59.6          | 29.0  | 49.7 *               | 69.6 * | 836.5                 | 997.5 |
| Average   | 28.2                 | 28.3  | 33.3                 | 36.5   | 28.5                | 30.1  | 25.7              | 26.3  | 79.1                  | 72.3   | 1.1                       | 1.2   | 0.1                     | 0.3   |                         |       |               |       |                      |        | 27.9                  | 33.3  |
|           | 28.3                 |       | 34.9                 |        | 29.3                |       | 26.0              |       | 75.7                  |        | 1.1                       |       | 0.2                     |       |                         |       | 88.6          |       | 119.3 *              |        | 30.6                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| July 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-----------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day       | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM       |                      | 26.0  |                      | 34.0  |                     | 24.0  |                   | 24.0  |                       | 96.0   |                           | 2.0   |                         | 0.0   |                         | SW    |               | 21.6  |                      | 1.3   |                       | 28.0  |
| 1         | 22.0                 | 22.5  | 27.5                 | 29.5  | 25.0                | 27.0  | 24.5              | 25.0  | 88.0                  | 84.0   | -                         | 2.0   | -                       | 0.0   | W                       | W     | -             | -     | 1.6                  | 1.1   | 26.0                  | 29.0  |
| 2         | 27.0                 | 27.0  | 28.0                 | 28.0  | 24.0                | 27.0  | 23.0              | 26.0  | 91.0                  | 92.0   | 2.0                       | 2.0   | 0.0                     | 0.1   | SW                      | SW    | -             | -     | -                    | 0.8   | 26.5                  | 29.0  |
| 3         | 26.0                 | 25.0  | 28.0                 | 29.0  | 25.0                | 26.5  | 24.0              | 25.0  | 92.0                  | 88.0   | 2.0                       | 2.0   | 0.1                     | 0.1   | N                       | SW    | -             | 1.2   | 2.2                  | 2.8   | 26.0                  | 29.5  |
| 4         | 26.0                 | 27.5  | 29.5                 | 31.0  | 27.0                | 27.5  | 25.0              | 25.5  | 84.0                  | 92.0   | 2.0                       | -     | 0.0                     | 0.2   | SW                      | SW    | -             | -     | 0.6                  | 1.2   | 26.5                  | 30.0  |
| 5         | 25.0                 | 27.5  | 30.0                 | 30.5  | 27.5                | 26.5  | 25.0              | 25.5  | 81.0                  | 92.0   | -                         | -     | 0.1                     | 0.1   | W                       | W     | -             | -     | 0.7                  | -     | 27.0                  | 29.0  |
| 6         | 26.0                 | 30.0  | 32.0                 | 35.0  | 28.0                | 29.0  | 26.5              | 26.0  | 81.0                  | 78.0   | 2.0                       | -     | -                       | 0.1   | W                       | W     | -             | -     | 0.9                  | 1.9   | 27.5                  | 34.0  |
| 7         | 27.0                 | 24.0  | 32.0                 | 32.0  | 30.0                | 30.5  | 28.0              | 26.0  | 85.0                  | 68.0   | 4.0                       | -     | 0.0                     | 0.1   | SW                      | NW    | -             | -     | 1.0                  | -     | 28.0                  | 33.0  |
| 8         | 27.0                 | 29.0  | 35.0                 | 36.0  | 29.0                | 27.0  | 27.0              | 25.0  | 85.0                  | 84.0   | 2.0                       | -     | 0.1                     | 0.1   | W                       | SW    | -             | 0.4   | 0.3                  | 1.3   | 28.5                  | 33.0  |
| 9         | 27.0                 | 28.0  | 35.0                 | 35.0  | 29.0                | 26.0  | 27.0              | 25.5  | 85.0                  | 88.0   | -                         | -     | 0.0                     | 0.1   | S                       | W     | -             | 4.2   | 1.1                  | 1.7   | 28.0                  | 31.5  |
| 10        | 25.5                 | 26.0  | 30.0                 | 34.0  | 27.0                | 25.0  | 26.5              | 24.5  | 88.0                  | 88.0   | -                         | -     | -                       | 0.1   | W                       | W     | -             | 16.2  | -                    | 2.4   | 27.5                  | 29.5  |
| 11        | 23.0                 | 25.0  | 29.0                 | 30.0  | 25.5                | 25.0  | 25.0              | 24.5  | 96.0                  | 88.0   | -                         | -     | 0.1                     | -     | W                       | W     | -             | -     | 2.0                  | 0.9   | 26.0                  | 27.5  |
| 12        | 24.0                 | 26.0  | 28.0                 | 32.0  | 25.0                | 24.5  | 24.5              | 24.0  | 88.0                  | 96.0   | -                         | 2.0   | -                       | 0.1   | W                       | N     | -             | 11.2  | -                    | 2.7   | 26.0                  | 29.0  |
| 13        | 24.0                 | 25.0  | 28.0                 | 32.0  | 25.0                | 27.5  | 24.5              | 26.0  | 88.0                  | 88.0   | -                         | 2.0   | -                       | 0.1   | N                       | NW    | -             | -     | 0.6                  | 0.6   | 26.0                  | 32.5  |
| 14        | 24.0                 | 28.0  | 28.5                 | 31.0  | 25.5                | 28.0  | 25.0              | 25.5  | 96.0                  | 74.0   | 2.0                       | -     | 0.1                     | 0.0   | NW                      | W     | -             | -     | 1.2                  | 1.3   | 26.5                  | 33.0  |
| 15        | 26.0                 | 26.0  | 29.0                 | 31.0  | 25.5                | 26.5  | 24.5              | 26.0  | 92.0                  | 96.0   | 2.0                       | -     | 0.0                     | 0.0   | W                       | W     | -             | -     | 0.6                  | 0.6   | 29.5                  | 34.0  |
| 16        | 26.0                 | 24.0  | 29.5                 | 28.0  | 25.0                | 23.5  | 24.5              | 23.0  | 88.0                  | 96.0   | -                         | -     | -                       | 0.0   | W                       | W     | -             | 3.4   | 1.1                  | 1.4   | 28.0                  | 27.0  |
| 17        | 23.0                 | 25.0  | 26.5                 | 28.0  | 25.0                | 25.0  | 24.5              | 25.0  | 88.0                  | 96.0   | 11.0                      | 2.0   | 0.1                     | -     | SW                      | SW    | 7.8           | 15.0  | 4.8                  | 7.0   | 26.0                  | 30.0  |
| 18        | 24.5                 | 24.5  | 29.5                 | 30.5  | 24.5                | 27.5  | 24.0              | 26.0  | 96.0                  | 88.0   | 2.0                       | -     | -                       | 0.5   | NW                      | NW    | 6.2           | -     | 1.8                  | -     | 25.5                  | 31.5  |
| 19        | 25.5                 | 23.5  | 31.0                 | 29.0  | 24.0                | 26.0  | 23.5              | 25.5  | 87.0                  | 88.0   | -                         | 2.0   | 0.0                     | -     | N                       | NW    | 6.0           | -     | 1.2                  | 3.6   | 25.5                  | 28.5  |
| 20        | 25.5                 | 27.0  | 30.0                 | 30.5  | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | -     | -                       | 0.2   | NW                      | SW    | -             | -     | 0.8                  | 1.1   | 26.5                  | 30.0  |
| 21        | 27.0                 | 28.0  | 30.0                 | 31.0  | 27.0                | 29.0  | 25.5              | 28.0  | 81.0                  | 92.0   | -                         | -     | 0.1                     | 0.0   | SW                      | SW    | -             | -     | 1.0                  | 1.5   | 26.5                  | 31.0  |
| 22        | 28.0                 | 28.0  | 32.0                 | 32.5  | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.0   | SW                      | SW    | -             | -     | 0.5                  | 1.3   | 27.5                  | 32.0  |
| 23        | 27.0                 | 25.0  | 32.0                 | 31.0  | 26.0                | 28.0  | 25.5              | 27.0  | 88.0                  | 92.0   | -                         | -     | -                       | 0.0   | SW                      | SW    | 0.6           | -     | -                    | 0.7   | 27.0                  | 30.5  |
| 24        | 27.0                 | 26.0  | 31.0                 | 31.0  | 26.0                | 28.5  | 25.5              | 27.0  | 88.0                  | 88.0   | -                         | -     | 0.0                     | -     | W                       | W     | -             | -     | 1.3                  | 0.7   | 26.5                  | 30.5  |
| 25        | 25.0                 | 26.0  | 32.0                 | 33.0  | 25.0                | 29.5  | 24.0              | 27.0  | 96.0                  | 81.0   | 2.0                       | -     | 0.1                     | 0.0   | W                       | W     | 0.6           | -     | -                    | 1.5   | 26.0                  | 32.5  |
| 26        | 24.0                 | 24.0  | 32.5                 | 31.0  | 24.0                | 27.0  | 23.5              | 26.5  | 87.0                  | 88.0   | -                         | -     | 0.1                     | 0.0   | W                       | W     | 1.6           | 1.2   | 0.6                  | 0.1   | 24.5                  | 30.5  |
| 27        | 24.0                 | 24.0  | 30.0                 | 32.5  | 24.5                | 30.0  | 24.0              | 28.0  | 96.0                  | 85.0   | -                         | -     | 0.1                     | 0.2   | W                       | W     | 4.2           | -     | 1.8                  | 1.5   | 25.0                  | 34.0  |
| 28        | 25.0                 | 27.0  | 32.0                 | 32.5  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | -                       | 0.0   | W                       | N     | -             | -     | 2.0                  | 2.0   | 27.5                  | 32.5  |
| 29        | 27.0                 | 29.0  | 33.0                 | 35.0  | 30.0                | 30.0  | 28.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.0                     | 0.0   | W                       | NW    | -             | -     | 0.9                  | 5.8   | 29.0                  | 34.0  |
| 30        | 26.5                 | 30.0  | 33.0                 | 34.0  | 29.0                | 30.0  | 28.0              | 29.0  | 92.0                  | 93.0   | -                         | -     | 0.0                     | 0.0   | NW                      | SW    | -             | -     | 1.1                  | 2.0   | 28.0                  | 33.0  |
| 31        | 26.0                 |       | 32.0                 |       | 27.0                |       | 26.5              |       | 96.0                  |        | -                         |       | 0.0                     |       | NW                      |       | -             |       | 0.6                  |       | 27.0                  |       |
| Total     | 790.5                | 813.5 | 945.5                | 979.5 | 814.0               | 845.5 | 783.0             | 803.0 | 2764.0                | 2726.0 | 35.0                      | 16.0  | 1.0                     | 2.3   |                         |       | 27.0          | 74.4  | 32.3                 | 50.8  | 831.5                 | 959.0 |
| Average   | 25.5                 | 26.2  | 30.5                 | 31.6  | 26.3                | 27.3  | 25.3              | 25.9  | 89.2                  | 87.9   | 1.1                       | 0.5   | 0.0                     | 0.1   |                         |       |               |       |                      |       | 26.8                  | 30.9  |
|           | 25.9                 |       | 31.0                 |       | 26.8                |       | 25.6              |       | 88.5                  |        | 0.8                       |       | 0.1                     |       |                         |       | 101.4         |       | 83.1                 |       | 28.9                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| August 2017 |                      |         |                      |         |                     |         |                   |         |                       |          |                           |        |                         |       |                         |       |               |       |                      |        |                       |         |
|-------------|----------------------|---------|----------------------|---------|---------------------|---------|-------------------|---------|-----------------------|----------|---------------------------|--------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|--------|-----------------------|---------|
|             | Min Temperature (°C) |         | Max Temperature (°C) |         | Dry Bulb Temp. (°C) |         | Wet Bulb Temp. °C |         | Relative Humidity (%) |          | Inst. Wind Speed (kms/hr) |        | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |         |
| Day         | 08:30                | 17:30   | 08:30                | 17:30   | 08:30               | 17:30   | 08:30             | 17:30   | 08:30                 | 17:30    | 08:30                     | 17:30  | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30   |
| LPM         |                      | ..      |                      | ..      |                     | ..      |                   | ..      |                       | ..       |                           | ..     |                         | ..    |                         | ..    |               | ..    |                      | ..     |                       | ..      |
| 1           | 25.5                 | 27.0    | 31.5                 | 33.0    | 27.0                | 27.5    | 26.5              | 26.5    | 88.0                  | 92.0     | -                         | -      | 0.0                     | 0.1   | NW                      | N     | -             | -     | 2.3                  | 1.4    | 27.5                  | 32.0    |
| 2           | 26.0                 | 28.0    | 31.5                 | 34.5    | 27.0                | 27.0    | 26.5              | 26.0    | 88.0                  | 96.0     | -                         | -      | -                       | 0.1   | N                       | W     | -             | -     | 11.0                 | 1.3    | 27.5                  | 31.5    |
| 3           | 26.0                 | 30.0    | 31.5                 | 35.0    | 28.0                | 29.0    | 27.0              | 27.0    | 92.0                  | 85.0     | -                         | -      | -                       | 0.0   | W                       | W     | -             | -     | 10.0                 | 2.0    | 27.5                  | 34.5    |
| 4           | 27.0                 | 28.0    | 32.0                 | 33.0    | 26.0                | 29.0    | 25.0              | 26.5    | 92.0                  | 81.0     | -                         | -      | -                       | 0.0   | W                       | W     | -             | -     | 13.0                 | 1.0    | 27.5                  | 33.5    |
| 5           | 26.5                 | 25.5    | 31.5                 | 31.5    | 25.5                | 25.0    | 25.0              | 24.5    | 96.0                  | 96.0     | -                         | -      | -                       | -     | NW                      | NW    | -             | 24.2  | 1.8                  | 4.6    | 27.0                  | 27.5    |
| 6           | 23.0                 | 26.0    | 28.0                 | 31.5    | 25.5                | 26.0    | 25.0              | 25.5    | 96.0                  | 96.0     | -                         | -      | 0.1                     | 0.0   | NW                      | NW    | -             | -     | -                    | 1.1    | 26.0                  | 31.5    |
| 7           | 24.5                 | 26.0    | 29.5                 | 31.0    | 26.5                | 28.0    | 26.0              | 27.0    | 96.0                  | 92.0     | -                         | 2.0    | 0.1                     | -     | NW                      | NW    | -             | -     | 1.0                  | 1.0    | 27.5                  | 31.5    |
| 8           | 25.5                 | 25.0    | 31.0                 | 30.5    | 25.5                | 28.0    | 25.0              | 27.0    | 96.0                  | 92.0     | -                         | 2.0    | -                       | -     | NW                      | NW    | -             | -     | 3.6                  | 0.9    | 26.5                  | 31.0    |
| 9           | 25.5                 | 24.0    | 31.0                 | 32.0    | 25.0                | 28.0    | 24.5              | 26.5    | 96.0                  | 88.0     | 2.0                       | 2.0    | 0.1                     | -     | W                       | W     | 0.4           | -     | 1.8                  | 1.4    | 26.0                  | 32.5    |
| 10          | 25.5                 | 27.0    | 32.0                 | 32.0    | 26.0                | 26.0    | 25.0              | 25.5    | 92.0                  | 96.0     | 2.0                       | 2.0    | 0.0                     | 0.0   | SW                      | NW    | -             | 0.2   | 1.6                  | 3.0    | 27.0                  | 31.0    |
| 11          | 26.0                 | 27.0    | 32.0                 | 32.0    | 27.0                | 28.0    | 26.5              | 27.0    | 96.0                  | 92.0     | 2.0                       | -      | -                       | 0.0   | NW                      | NW    | -             | -     | 1.0                  | 1.9    | 27.5                  | 33.0    |
| 12          | 28.0                 | 26.0    | 33.0                 | 32.0    | 28.0                | 27.0    | 26.5              | 26.0    | 81.0                  | 92.0     | 2.0                       | -      | 0.1                     | 0.1   | N                       | NE    | -             | -     | 1.1                  | 3.2    | 27.5                  | 31.0    |
| 13          | 26.0                 | 25.5    | 33.0                 | 33.0    | 26.0                | 24.5    | 25.5              | 24.0    | 96.0                  | 96.0     | -                         | -      | -                       | 0.1   | N                       | N     | -             | 0.4   | 0.9                  | 4.0    | 27.0                  | 29.5    |
| 14          | 23.5                 | 23.5    | 28.0                 | 30.0    | 25.0                | 27.0    | 24.5              | 26.0    | 96.0                  | 92.0     | 2.0                       | -      | -                       | -     | NE                      | NE    | 0.6           | -     | 2.4                  | 1.2    | 25.0                  | 31.0    |
| 15          | 26.0                 | 25.0    | 30.0                 | 33.0    | 26.0                | 26.0    | 25.5              | 25.0    | 96.0                  | 92.0     | 2.0                       | -      | -                       | -     | NE                      | N     | -             | -     | 0.6                  | 0.8    | 26.5                  | 30.0    |
| 16          | 25.5                 | 28.0    | 30.0                 | 33.0    | 27.0                | 28.0    | 26.5              | 27.0    | 96.0                  | 92.0     | 2.0                       | -      | -                       | -     | N                       | N     | -             | 1.0   | 0.7                  | -      | 27.0                  | 30.0    |
| 17          | 25.0                 | 22.0    | 33.0                 | 29.0    | 23.5                | 25.5    | 23.0              | 25.0    | 96.0                  | 96.0     | 2.0                       | -      | -                       | -     | N                       | N     | 2.8           | -     | 2.0                  | 1.8    | 25.5                  | 29.0    |
| 18          | 25.0                 | 26.0    | 29.0                 | 31.5    | 23.5                | 26.0    | 23.0              | 25.0    | 96.0                  | 92.0     | -                         | -      | -                       | -     | N                       | N     | 9.8           | 4.4   | 11.7                 | 14.7   | 24.5                  | 31.0    |
| 19          | 25.0                 | 24.0    | 28.5                 | 31.0    | 26.0                | 27.0    | 25.0              | 26.5    | 92.0                  | 96.0     | 11.0                      | -      | -                       | 0.1   | N                       | N     | 0.2           | -     | 4.0                  | 0.7    | 26.0                  | 31.0    |
| 20          | 25.5                 | 25.0    | 31.0                 | 32.0    | 26.0                | 29.0    | 25.5              | 27.0    | 96.0                  | 85.0     | 2.0                       | -      | 0.1                     | 0.1   | N                       | SW    | -             | -     | -                    | 0.9    | 27.0                  | 31.0    |
| 21          | 26.0                 | 26.0    | 31.0                 | 33.0    | 27.0                | 29.5    | 26.0              | 27.0    | 92.0                  | 81.0     | -                         | -      | -                       | 0.1   | SE                      | SE    | -             | -     | 3.0                  | 1.4    | 27.5                  | 33.0    |
| 22          | 26.0                 | 26.0    | 33.0                 | 33.0    | 26.0                | 28.0    | 26.0              | 27.5    | 96.0                  | 92.0     | -                         | 2.0    | -                       | 0.1   | E                       | E     | -             | -     | 0.7                  | 1.8    | 27.0                  | 32.5    |
| 23          | 26.0                 | 28.5    | 33.0                 | 35.0    | 29.0                | 28.0    | 28.5              | 26.0    | 96.0                  | 96.0     | 2.0                       | 2.0    | -                       | 0.3   | E                       | N     | -             | -     | 1.0                  | 2.0    | 27.0                  | 34.0    |
| 24          | 26.0                 | 26.0    | 33.0                 | 33.0    | 24.0                | 28.0    | 23.5              | 27.5    | 96.0                  | 85.0     | 2.0                       | -      | -                       | 0.2   | N                       | SW    | 2.0           | -     | 1.3                  | 1.5    | 25.5                  | 32.0    |
| 25          | 26.0                 | 26.0    | 30.0                 | 31.5    | 26.5                | 28.5    | 26.0              | 27.5    | 96.0                  | 92.0     | -                         | 11.0   | -                       | -     | N                       | N     | -             | -     | 1.1                  | 1.1    | 27.0                  | 32.0    |
| 26          | 26.0                 | 28.5    | 32.0                 | 34.0    | 28.0                | 28.0    | 27.5              | 27.0    | 96.0                  | 92.0     | 11.0                      | 11.0   | -                       | -     | N                       | N     | -             | -     | 1.0                  | 1.4    | 27.5                  | 33.0    |
| 27          | 27.0                 | 27.0    | 32.0                 | 34.0    | 26.5                | 29.0    | 26.0              | 28.0    | 96.0                  | 92.0     | 2.0                       | 11.0   | -                       | 0.1   | N                       | N     | 8.6           | -     | 1.3                  | 1.6    | 27.5                  | 33.5    |
| 28          | 25.0                 | 23.0    | 32.5                 | 29.5    | 24.5                | 26.5    | 24.0              | 26.0    | 96.0                  | 96.0     | 2.0                       | 11.0   | -                       | 0.0   | N                       | N     | 3.6           | 8.6   | 5.4                  | 2.0    | 25.5                  | 27.5    |
| 29          | 24.0                 | 24.0    | 28.0                 | 31.5    | 25.0                | 27.0    | 24.0              | 26.0    | 92.0                  | 92.0     | 2.0                       | 11.0   | -                       | -     | N                       | N     | -             | -     | -                    | 0.6    | 25.5                  | 31.0    |
| 30          | 25.0                 | 29.0    | 32.0                 | 34.0    | 28.0                | 30.0    | 27.0              | 28.0    | 92.0                  | 85.0     | 2.0                       | 11.0   | -                       | -     | N                       | N     | 0.4           | -     | 1.4                  | 1.0    | 27.0                  | 33.0    |
| 31          | 26.0                 |         | 33.0                 |         | 28.0                |         | 27.0              |         | 92.0                  |          | 2.0                       |        | -                       |       | N                       |       | -             |       | 0.9                  |        | 27.5                  |         |
| Total       | 793.5                | 782.5 * | 966.5                | 969.0 * | 812.5               | 824.0 * | 792.5             | 791.0 * | 2913.0                | 2742.0 * | 54.0                      | 78.0 * | 0.4                     | 1.7 * |                         |       | 28.4          | 38.8  | 87.6                 | 61.3 * | 828.0                 | 944.5 * |
| Average     | 25.6                 | 26.1 *  | 31.2                 | 32.3 *  | 26.2                | 27.5 *  | 25.6              | 26.4 *  | 94.0                  | 91.4 *   | 1.7                       | 2.6 *  | 0.0                     | 0.1 * |                         |       |               |       |                      |        | 26.7                  | 31.5 *  |
|             | 25.8 *               |         | 31.7 *               |         | 26.8 *              |         | 26.0 *            |         | 92.7 *                |          | 2.2 *                     |        | 0.0 *                   |       |                         |       | 67.2 *        |       | 148.9 *              |        | 29.1 *                |         |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| September 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|----------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|                | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day            | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM            |                      | 27.0  |                      | 35.0   |                     | 26.5  |                   | 25.0  |                       | 88.0   |                           | -     |                         | 0.1   |                         | N     |               | -     |                      | 1.6   |                       | 33.0  |
| 1              | 27.0                 | 28.0  | 33.5                 | 34.0   | 28.0                | 26.0  | 27.0              | 25.0  | 92.0                  | 92.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 1.7                  | 1.7   | 27.5                  | 34.0  |
| 2              | 25.0                 | 28.0  | 28.5                 | 33.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.0                     | 0.0   | SW                      | NE    | -             | -     | 1.0                  | 1.2   | 28.0                  | 32.0  |
| 3              | 28.0                 | 29.5  | 32.0                 | 35.0   | 30.0                | 30.5  | 28.0              | 28.0  | 85.0                  | 82.0   | -                         | -     | -                       | 0.0   | SE                      | NW    | -             | -     | 1.2                  | 1.1   | 25.0                  | 34.0  |
| 4              | 27.0                 | 31.0  | 34.0                 | 37.0   | 29.0                | 31.0  | 27.0              | 29.0  | 85.0                  | 86.0   | -                         | -     | 0.1                     | 0.1   | NW                      | NW    | -             | -     | 1.0                  | 2.0   | 28.0                  | 34.5  |
| 5              | 27.0                 | 29.5  | 35.0                 | 37.0   | 29.5                | 27.5  | 28.0              | 24.5  | 96.0                  | 77.0   | -                         | -     | 0.1                     | 0.0   | NW                      | W     | -             | -     | 1.3                  | 1.7   | 29.0                  | 34.5  |
| 6              | 28.0                 | 27.0  | 33.0                 | 36.0   | 28.0                | 28.0  | 26.0              | 26.0  | 96.0                  | 96.0   | -                         | -     | -                       | 0.1   | SW                      | W     | -             | -     | 1.0                  | 0.8   | 30.0                  | 33.0  |
| 7              | 26.5                 | 30.0  | 32.0                 | 36.0   | 29.0                | 29.5  | 27.5              | 27.5  | 89.0                  | 85.0   | -                         | -     | 0.0                     | 0.0   | W                       | W     | -             | -     | 0.8                  | 1.3   | 28.0                  | 34.0  |
| 8              | 26.0                 | 31.5  | 32.5                 | 36.5   | 29.0                | 30.0  | 26.0              | 28.0  | 76.0                  | 85.0   | -                         | -     | 0.0                     | 0.0   | W                       | W     | -             | -     | 1.1                  | 1.8   | 27.5                  | 35.0  |
| 9              | 26.5                 | 28.0  | 32.0                 | 35.0   | 29.0                | 26.0  | 27.0              | 25.0  | 85.0                  | 92.0   | -                         | -     | 0.1                     | 0.0   | N                       | N     | -             | -     | 0.3                  | 1.3   | 27.0                  | 29.0  |
| 10             | 27.0                 | 28.0  | 31.5                 | 35.0   | 29.0                | 30.0  | 28.0              | 28.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.0   | N                       | N     | -             | -     | 1.0                  | 1.8   | 28.0                  | 30.0  |
| 11             | 26.5                 | 30.0  | 31.5                 | 36.0   | 28.0                | 30.5  | 27.0              | 28.0  | 92.0                  | 82.0   | -                         | -     | 0.1                     | 0.0   | N                       | N     | -             | -     | 0.7                  | 1.6   | 28.0                  | 31.5  |
| 12             | 27.0                 | 28.0  | 30.0                 | 35.0   | 27.0                | 25.0  | 26.0              | 24.0  | 92.0                  | 92.0   | -                         | -     | -                       | 0.0   | NE                      | SW    | -             | 9.0   | 0.8                  | 0.5   | 28.0                  | 29.0  |
| 13             | 27.0                 | 28.0  | 30.0                 | 35.0   | 28.0                | 26.0  | 26.0              | 24.0  | 85.0                  | 84.0   | -                         | -     | -                       | 0.0   | NW                      | SW    | -             | 2.2   | 1.3                  | 0.6   | 28.0                  | 29.0  |
| 14             | 25.0                 | 27.5  | 30.0                 | 34.5   | 28.0                | 25.0  | 26.0              | 24.0  | 85.0                  | 92.0   | -                         | -     | 0.0                     | 0.1   | N                       | W     | -             | -     | 1.2                  | 0.9   | 29.0                  | 28.5  |
| 15             | 25.0                 | 27.5  | 33.0                 | 33.5   | 25.0                | 29.0  | 24.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | 0.1                     | 0.0   | W                       | W     | -             | -     | -                    | 1.6   | 26.0                  | 32.5  |
| 16             | 26.0                 | 31.5  | 31.0                 | 34.5   | 28.0                | 30.5  | 27.0              | 28.0  | 92.0                  | 82.0   | -                         | -     | 0.1                     | 0.1   | W                       | N     | -             | -     | 0.7                  | 0.8   | 28.0                  | 30.0  |
| 17             | 24.0                 | 31.0  | 32.0                 | 32.5   | 25.0                | 27.0  | 24.0              | 26.5  | 92.0                  | 96.0   | -                         | -     | 0.0                     | 0.0   | N                       | N     | 133.0         | -     | 2.8                  | -     | 25.0                  | 31.0  |
| 18             | 25.0                 | 27.5  | 30.0                 | 30.0   | 25.5                | 24.5  | 24.0              | 23.0  | 88.0                  | 87.0   | -                         | -     | 0.1                     | -     | E                       | N     | 0.6           | -     | -                    | 1.1   | 26.0                  | 29.0  |
| 19             | 25.0                 | 25.0  | 32.5                 | 31.5   | 25.0                | 24.5  | 25.0              | 24.5  | 91.0                  | 87.0   | -                         | -     | 0.1                     | 0.0   | N                       | W     | 2.0           | -     | -                    | 2.1   | 25.5                  | 25.5  |
| 20             | 24.0                 | 24.5  | 31.0                 | 30.0   | 26.0                | 26.5  | 25.0              | 25.0  | 92.0                  | 88.0   | -                         | -     | 0.1                     | 0.0   | N                       | SW    | 57.6          | 43.2  | 2.9                  | -     | 25.0                  | 24.5  |
| 21             | 25.0                 | 26.0  | 31.0                 | 31.5   | 25.0                | 26.0  | 24.0              | 24.0  | 92.0                  | 84.0   | -                         | -     | 0.0                     | 0.0   | E                       | N     | -             | -     | 0.6                  | 1.4   | 26.0                  | 26.0  |
| 22             | 26.5                 | 31.5  | 33.0                 | 37.0   | 30.0                | 28.0  | 27.0              | 26.5  | 78.0                  | 88.0   | -                         | -     | 0.1                     | 0.0   | W                       | N     | -             | -     | 1.8                  | 1.6   | 27.0                  | 32.0  |
| 23             | 28.0                 | 30.5  | 34.0                 | 36.5   | 29.5                | 28.5  | 28.0              | 27.5  | 89.0                  | 92.0   | -                         | -     | -                       | 0.0   | SW                      | SW    | -             | -     | 1.8                  | 1.4   | 28.0                  | 32.0  |
| 24             | 27.0                 | 27.5  | 36.0                 | 35.0   | 29.0                | 28.5  | 28.0              | 27.5  | 92.0                  | 92.0   | -                         | -     | -                       | 0.1   | SW                      | SW    | -             | -     | 1.1                  | 1.2   | 28.0                  | 31.0  |
| 25             | 26.0                 | 30.0  | 32.0                 | 36.0   | 28.5                | 29.0  | 27.5              | 27.5  | 92.0                  | 89.0   | -                         | -     | -                       | 0.1   | SW                      | SW    | -             | -     | 0.7                  | 0.8   | 27.5                  | 32.0  |
| 26             | 26.0                 | 30.0  | 32.5                 | 36.5   | 29.0                | 29.0  | 28.0              | 27.0  | 92.0                  | 85.0   | -                         | -     | -                       | 0.2   | SW                      | SW    | -             | -     | 1.2                  | 1.2   | 28.0                  | 32.5  |
| 27             | 27.0                 | 28.5  | 32.0                 | 36.0   | 29.0                | 27.0  | 27.0              | 25.5  | 85.0                  | 89.0   | -                         | -     | -                       | 0.3   | SW                      | SW    | -             | -     | 1.0                  | 1.2   | 27.0                  | 32.0  |
| 28             | 25.5                 | 28.5  | 31.0                 | 33.5   | 28.0                | 27.5  | 27.0              | 26.0  | 92.0                  | 88.0   | -                         | -     | -                       | 0.1   | SW                      | SW    | -             | 1.8   | -                    | -     | 27.0                  | 31.0  |
| 29             | 25.0                 | 25.0  | 31.0                 | 32.0   | 24.5                | 27.0  | 24.0              | 26.0  | 96.0                  | 92.0   | -                         | -     | 0.0                     | 0.1   | N                       | N     | -             | -     | 3.8                  | 1.2   | 25.5                  | 30.0  |
| 30             | 25.5                 |       | 30.0                 |        | 25.0                |       | 24.5              |       | 96.0                  |        | -                         |       | 0.0                     |       | NW                      |       | -             |       | 1.0                  |       | 26.0                  |       |
| Total          | 784.0                | 855.5 | 957.5                | 1036.0 | 829.5               | 833.0 | 788.5             | 784.5 | 2693.0                | 2627.0 | -                         | -     | 0.9                     | 1.7   |                         |       | 193.2         | 56.2  | 33.8                 | 35.5  | 816.5                 | 932.0 |
| Average        | 26.1                 | 28.5  | 31.9                 | 34.5   | 27.7                | 27.8  | 26.3              | 26.2  | 89.8                  | 87.6   | -                         | -     | 0.0                     | 0.1   |                         |       |               |       |                      |       | 27.2                  | 31.1  |
|                | 27.3                 |       | 33.2                 |        | 27.7                |       | 26.2              |       | 88.7                  |        | 0.0                       |       | 0.0                     |       |                         |       | 249.4         |       | 69.3                 |       | 29.1                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| October 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM        |                      | 25.5  |                      | 32.0   |                     | 26.0  |                   | 25.0  |                       | 92.0   |                           | -     |                         | 0.0   |                         | NW    |               | -     |                      | 1.0   |                       | 29.0  |
| 1            | 25.0                 | 25.0  | 29.0                 | 33.5   | 25.0                | 28.0  | 24.5              | 26.5  | 96.0                  | 88.0   | -                         | -     | -                       | 0.0   | NW                      | NW    | -             | -     | 0.8                  | 0.8   | 26.0                  | 30.5  |
| 2            | 27.0                 | 26.0  | 30.0                 | 36.5   | 27.0                | 25.0  | 26.0              | 24.5  | 92.0                  | 96.0   | -                         | -     | -                       | 0.1   | NW                      | N     | -             | 2.0   | 0.8                  | -     | 28.0                  | 29.5  |
| 3            | 25.0                 | 26.0  | 28.0                 | 32.0   | 25.0                | 28.0  | 24.5              | 27.5  | 96.0                  | 96.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | -                    | 0.6   | 26.0                  | 30.5  |
| 4            | 26.0                 | 26.5  | 31.5                 | 32.5   | 26.0                | 24.5  | 25.5              | 24.0  | 96.0                  | 96.0   | -                         | -     | -                       | 0.1   | N                       | SE    | -             | 1.4   | 0.7                  | 0.1   | 26.5                  | 29.0  |
| 5            | 23.0                 | 29.0  | 30.0                 | 34.5   | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | -                         | -     | -                       | 0.0   | SE                      | N     | -             | -     | -                    | 1.7   | 26.0                  | 30.5  |
| 6            | 26.0                 | 25.0  | 31.5                 | 32.0   | 26.0                | 24.0  | 25.0              | 23.0  | 92.0                  | 91.0   | -                         | -     | 0.1                     | 0.0   | N                       | SW    | -             | 7.8   | 0.7                  | 4.4   | 26.5                  | 28.0  |
| 7            | 25.0                 | 25.0  | 31.0                 | 31.5   | 26.5                | 26.0  | 25.5              | 25.5  | 92.0                  | 96.0   | -                         | -     | 0.0                     | -     | NW                      | N     | -             | -     | 0.6                  | 2.2   | 26.0                  | 29.0  |
| 8            | 25.5                 | 24.0  | 29.0                 | 32.0   | 25.5                | 26.5  | 25.0              | 26.0  | 96.0                  | 96.0   | -                         | -     | 0.1                     | 0.0   | NW                      | NW    | 0.4           | -     | -                    | 1.0   | 26.0                  | 29.5  |
| 9            | 25.5                 | 26.0  | 30.5                 | 35.5   | 26.0                | 24.5  | 25.0              | 24.5  | 92.0                  | 96.0   | -                         | -     | -                       | 0.4   | NW                      | NW    | -             | 12.4  | 0.9                  | 4.8   | 27.0                  | 29.5  |
| 10           | 24.0                 | 23.5  | 27.0                 | 35.0   | 24.5                | 27.0  | 24.0              | 25.0  | 96.0                  | 84.0   | -                         | -     | -                       | 0.1   | NW                      | N     | -             | -     | 1.0                  | 1.2   | 25.0                  | 30.5  |
| 11           | 25.0                 | 27.0  | 30.0                 | 35.0   | 27.0                | 28.5  | 26.5              | 27.0  | 96.0                  | 96.0   | -                         | -     | 0.0                     | 0.1   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 26.5                  | 32.0  |
| 12           | 25.5                 | 29.0  | 31.5                 | 40.0   | 30.0                | 27.0  | 26.5              | 26.5  | 75.0                  | 96.0   | -                         | -     | 0.0                     | -     | N                       | NW    | -             | 2.6   | 1.2                  | 1.3   | 27.0                  | 31.5  |
| 13           | 26.0                 | 29.5  | 31.5                 | 37.0   | 32.0                | 29.0  | 28.0              | 28.0  | 73.0                  | 92.0   | -                         | -     | 0.0                     | 0.0   | N                       | N     | -             | -     | 1.7                  | 1.2   | 28.5                  | 32.0  |
| 14           | 25.5                 | 29.5  | 32.0                 | 35.0   | 28.0                | 28.5  | 27.0              | 27.5  | 92.0                  | 92.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 1.0                  | 1.0   | 27.5                  | 31.5  |
| 15           | 25.0                 | 30.0  | 32.0                 | 35.5   | 28.5                | 28.5  | 27.0              | 27.0  | 96.0                  | 96.0   | -                         | -     | -                       | 0.3   | N                       | N     | -             | -     | 1.0                  | 1.0   | 27.0                  | 31.5  |
| 16           | 25.0                 | 25.0  | 32.0                 | 35.0   | 25.0                | 28.0  | 24.5              | 27.0  | 96.0                  | 92.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.0                  | 1.0   | 26.5                  | 31.0  |
| 17           | 23.0                 | 28.0  | 31.5                 | 35.5   | 26.0                | 27.5  | 24.5              | 25.5  | 88.0                  | 84.0   | -                         | -     | -                       | 0.5   | N                       | N     | -             | -     | 1.1                  | 1.0   | 25.0                  | 30.0  |
| 18           | 22.0                 | 27.0  | 31.5                 | 35.0   | 25.0                | 26.5  | 24.0              | 25.0  | 96.0                  | 88.0   | -                         | -     | -                       | 0.6   | N                       | N     | -             | -     | 1.0                  | 1.3   | 24.0                  | 29.5  |
| 19           | 26.0                 | 26.0  | 31.0                 | 30.5   | 25.5                | 24.5  | 25.0              | 24.0  | 96.0                  | 96.0   | -                         | -     | 0.0                     | 0.6   | NW                      | N     | -             | 8.2   | 1.3                  | 0.7   | 26.0                  | 28.0  |
| 20           | 23.0                 | 25.0  | 27.0                 | 29.0   | 25.0                | 26.0  | 24.0              | 25.0  | 97.0                  | 92.0   | -                         | -     | -                       | -     | NW                      | SW    | 1.8           | -     | 2.0                  | 0.8   | 26.5                  | 27.0  |
| 21           | 25.5                 | 25.0  | 30.0                 | 35.5   | 28.5                | 26.0  | 27.0              | 26.0  | 88.0                  | 95.0   | -                         | -     | -                       | 0.0   | NW                      | NW    | -             | -     | 1.2                  | 1.1   | 26.0                  | 31.5  |
| 22           | 25.0                 | 28.0  | 30.0                 | 35.0   | 28.0                | 26.0  | 27.0              | 24.0  | 92.0                  | 89.0   | -                         | -     | 0.1                     | 0.3   | NW                      | NW    | -             | -     | 1.4                  | 1.3   | 27.0                  | 31.5  |
| 23           | 24.0                 | 28.0  | 30.5                 | 30.5   | 28.5                | 28.0  | 26.0              | 26.0  | 91.0                  | 95.0   | -                         | -     | 0.0                     | 0.1   | N                       | NW    | -             | -     | 1.2                  | 1.2   | 25.5                  | 30.0  |
| 24           | 27.0                 | 30.0  | 30.0                 | 35.5   | 28.5                | 27.5  | 27.0              | 26.5  | 89.0                  | 96.0   | -                         | -     | -                       | 0.0   | SW                      | NW    | -             | -     | 1.2                  | 1.4   | 26.5                  | 31.5  |
| 25           | 23.0                 | 30.5  | 30.0                 | 33.0   | 26.0                | 28.0  | 24.0              | 26.5  | 84.0                  | 96.0   | -                         | -     | -                       | 0.1   | NW                      | N     | -             | -     | 1.5                  | 1.3   | 26.5                  | 31.0  |
| 26           | 23.0                 | 29.0  | 30.5                 | 34.0   | 26.0                | 27.0  | 24.0              | 25.0  | 84.0                  | 96.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 1.6                  | 1.4   | 25.0                  | 30.0  |
| 27           | 27.0                 | 25.0  | 31.0                 | 33.0   | 25.0                | 28.0  | 24.0              | 26.0  | 92.0                  | 96.0   | -                         | -     | -                       | 0.0   | N                       | SW    | -             | -     | 0.8                  | 1.0   | 25.0                  | 29.0  |
| 28           | 28.0                 | 29.0  | 30.0                 | 34.0   | 27.0                | 29.0  | 25.0              | 27.0  | 84.0                  | 85.0   | -                         | -     | -                       | 0.0   | SW                      | SE    | -             | -     | 1.0                  | 1.2   | 26.0                  | 30.0  |
| 29           | 22.0                 | 27.0  | 31.0                 | 33.0   | 26.0                | 28.0  | 24.0              | 27.0  | 84.0                  | 92.0   | -                         | -     | 0.1                     | 0.1   | NW                      | SW    | -             | -     | 1.1                  | 1.0   | 24.0                  | 29.0  |
| 30           | 28.0                 | 27.0  | 31.5                 | 34.0   | 24.0                | 25.0  | 23.0              | 23.0  | 91.0                  | 84.0   | -                         | -     | 0.1                     | 0.2   | N                       | N     | -             | -     | 1.3                  | 1.0   | 22.5                  | 27.0  |
| 31           | 18.5                 |       | 28.5                 |        | 22.0                |       | 20.5              |       | 87.0                  |        | -                         |       | -                       |       | N                       |       | -             |       | 0.6                  |       | 21.0                  |       |
| Total        | 769.0                | 836.0 | 940.5                | 1052.0 | 819.0               | 834.0 | 778.5             | 798.0 | 2811.0                | 2871.0 | -                         | -     | 0.5                     | 4.0   |                         |       | 2.2           | 34.4  | 30.7                 | 40.0  | 802.5                 | 930.0 |
| Average      | 24.8                 | 27.0  | 30.3                 | 33.9   | 26.4                | 26.9  | 25.1              | 25.7  | 90.7                  | 92.6   | -                         | -     | 0.0                     | 0.1   |                         |       |               |       |                      |       | 25.9                  | 30.0  |
|              | 25.9                 |       | 32.1                 |        | 26.7                |       | 25.4              |       | 91.6                  |        | 0.0                       |       | 0.1                     |       |                         |       | 36.6          |       | 70.7                 |       | 27.9                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| November 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM         |                      | 24.0  |                      | 32.0  |                     | 24.5  |                   | 23.0  |                       | 87.0   |                           | -     |                         | 0.1   |                         | N     |               | -     |                      | 0.6   |                       | 26.5  |
| 1             | 21.0                 | 24.0  | 28.0                 | 31.5  | 22.5                | 24.5  | 21.0              | 23.0  | 87.0                  | 87.0   | -                         | -     | -                       | 0.3   | N                       | NW    | -             | -     | 0.8                  | 1.0   | 21.0                  | 26.0  |
| 2             | 19.5                 | 22.5  | 27.5                 | 32.0  | 21.5                | 24.5  | 20.5              | 22.5  | 91.0                  | 84.0   | -                         | -     | -                       | 0.2   | NW                      | N     | -             | -     | 1.0                  | 1.1   | 21.0                  | 26.5  |
| 3             | 19.0                 | 23.0  | 27.0                 | 33.0  | 25.0                | 25.0  | 22.0              | 23.0  | 76.0                  | 84.0   | -                         | -     | -                       | 0.2   | N                       | SW    | -             | -     | 2.1                  | 1.0   | 22.0                  | 27.0  |
| 4             | 19.0                 | 22.0  | 27.0                 | 32.0  | 22.5                | 24.0  | 21.5              | 22.0  | 91.0                  | 83.0   | -                         | -     | 0.0                     | 0.5   | N                       | N     | -             | -     | 0.5                  | 1.0   | 21.0                  | 28.0  |
| 5             | 18.0                 | 25.0  | 28.0                 | 33.0  | 23.5                | 25.0  | 21.5              | 23.0  | 83.0                  | 84.0   | -                         | -     | -                       | 0.4   | N                       | N     | -             | -     | 0.8                  | 1.1   | 22.0                  | 28.0  |
| 6             | 19.0                 | 25.0  | 29.0                 | 33.0  | 23.0                | 24.5  | 21.5              | 23.0  | 87.0                  | 87.0   | -                         | -     | 0.1                     | 0.3   | N                       | N     | -             | -     | 1.0                  | 1.2   | 21.5                  | 28.5  |
| 7             | 19.0                 | 25.0  | 29.0                 | 33.0  | 24.0                | 25.0  | 22.5              | 23.0  | 87.0                  | 84.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 1.0                  | 1.3   | 22.0                  | 30.0  |
| 8             | 20.0                 | 26.0  | 29.0                 | 33.0  | 24.5                | 25.0  | 23.0              | 23.0  | 87.0                  | 84.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.1                  | 1.1   | 24.0                  | 29.5  |
| 9             | 18.0                 | 24.0  | 28.5                 | 33.0  | 23.0                | 24.0  | 21.5              | 22.5  | 87.0                  | 87.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.2                  | 1.2   | 22.0                  | 28.0  |
| 10            | 19.0                 | 20.0  | 28.5                 | 31.0  | 23.0                | 24.0  | 22.0              | 22.0  | 91.0                  | 83.0   | -                         | -     | 0.0                     | 0.2   | NE                      | SW    | -             | -     | 1.0                  | 1.0   | 22.0                  | 27.0  |
| 11            | 17.0                 | 21.0  | 26.5                 | 30.0  | 20.5                | 23.0  | 19.0              | 21.0  | 86.0                  | 83.0   | -                         | -     | -                       | 0.2   | N                       | NW    | -             | -     | 0.7                  | 0.8   | 20.0                  | 26.0  |
| 12            | 17.0                 | 21.0  | 27.0                 | 31.0  | 21.0                | 23.5  | 20.0              | 21.5  | 95.0                  | 83.0   | -                         | -     | -                       | 0.3   | NW                      | N     | -             | -     | 0.6                  | 0.9   | 20.0                  | 26.0  |
| 13            | 19.0                 | 20.0  | 28.0                 | 30.0  | 21.0                | 24.0  | 20.0              | 22.0  | 96.0                  | 83.0   | -                         | -     | -                       | 0.7   | N                       | SW    | -             | -     | 0.8                  | 1.0   | 21.0                  | 25.0  |
| 14            | 21.0                 | 25.0  | 29.0                 | 30.0  | 24.0                | 24.5  | 23.0              | 22.5  | 96.0                  | 83.0   | -                         | -     | 0.1                     | 0.2   | N                       | N     | -             | -     | 0.7                  | 0.6   | 23.0                  | 28.0  |
| 15            | 22.0                 | 22.0  | 28.5                 | 29.0  | 22.5                | 22.0  | 21.5              | 21.0  | 91.0                  | 91.0   | -                         | -     | 0.0                     | 0.3   | N                       | N     | -             | -     | 0.7                  | 0.6   | 24.0                  | 25.5  |
| 16            | 21.0                 | 21.0  | 27.0                 | 26.0  | 22.0                | 22.0  | 21.5              | 21.5  | 95.0                  | 95.0   | -                         | -     | 0.2                     | 0.5   | N                       | NW    | -             | -     | 1.0                  | 0.5   | 24.0                  | 26.0  |
| 17            | 20.5                 | 24.0  | 26.0                 | 27.0  | 22.0                | 24.0  | 21.0              | 23.0  | 91.0                  | 91.0   | -                         | -     | 0.0                     | 0.1   | N                       | NW    | -             | -     | 1.1                  | 0.2   | 23.5                  | 28.0  |
| 18            | 22.0                 | 21.0  | 27.0                 | 27.0  | 23.0                | 24.0  | 22.5              | 23.0  | 96.0                  | 91.0   | -                         | -     | -                       | 0.4   | NW                      | NW    | -             | -     | 0.6                  | 0.5   | 25.0                  | 27.0  |
| 19            | 22.0                 | 21.0  | 29.0                 | 28.0  | 22.0                | 24.5  | 21.5              | 24.0  | 95.0                  | 96.0   | -                         | -     | -                       | 0.1   | NW                      | N     | -             | -     | 0.5                  | 0.5   | 24.0                  | 28.0  |
| 20            | 22.0                 | 22.0  | 28.5                 | 32.0  | 22.0                | 26.0  | 21.5              | 24.5  | 95.0                  | 87.0   | -                         | -     | -                       | 0.2   | NW                      | N     | -             | -     | 0.6                  | 0.6   | 24.0                  | 30.0  |
| 21            | 21.5                 | 21.0  | 29.0                 | 32.0  | 22.5                | 26.0  | 22.0              | 24.5  | 95.0                  | 88.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.5                  | 0.6   | 25.0                  | 30.0  |
| 22            | 20.0                 | 20.0  | 28.0                 | 30.0  | 20.5                | 24.5  | 20.0              | 22.5  | 95.0                  | 83.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 0.6                  | 0.5   | 22.0                  | 28.0  |
| 23            | 19.0                 | 21.0  | 28.0                 | 30.5  | 21.0                | 23.0  | 20.5              | 21.0  | 95.0                  | 82.0   | -                         | -     | -                       | 0.2   | N                       | NW    | -             | -     | 0.6                  | 0.8   | 22.0                  | 27.0  |
| 24            | 17.0                 | 22.0  | 27.5                 | 30.0  | 21.0                | 24.0  | 20.0              | 20.0  | 91.0                  | 68.0   | -                         | -     | -                       | 0.0   | NW                      | SW    | -             | -     | 1.1                  | 0.8   | 20.0                  | 26.0  |
| 25            | 15.5                 | 16.0  | 26.0                 | 28.0  | 16.5                | 22.0  | 16.0              | 20.0  | 95.0                  | 82.0   | -                         | -     | 0.1                     | 0.0   | NW                      | NW    | -             | -     | 1.0                  | 1.0   | 19.0                  | 25.0  |
| 26            | 14.5                 | 19.0  | 25.0                 | 29.0  | 18.5                | 22.0  | 17.5              | 20.0  | 90.0                  | 82.0   | -                         | -     | -                       | 0.2   | NW                      | N     | -             | -     | 0.6                  | 0.8   | 18.0                  | 25.0  |
| 27            | 13.5                 | 17.0  | 25.0                 | 29.0  | 17.0                | 22.0  | 16.0              | 20.0  | 90.0                  | 82.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 1.0                  | 0.9   | 17.0                  | 25.0  |
| 28            | 13.0                 | 20.0  | 25.0                 | 30.0  | 17.0                | 21.5  | 16.0              | 19.0  | 90.0                  | 78.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.8                  | 0.9   | 17.0                  | 26.0  |
| 29            | 13.5                 | 21.0  | 26.0                 | 31.0  | 17.5                | 21.5  | 16.5              | 19.0  | 90.0                  | 78.0   | -                         | -     | -                       | 0.1   | N                       | NW    | -             | -     | 1.0                  | 0.9   | 17.0                  | 23.0  |
| 30            | 13.0                 |       | 26.0                 |       | 17.5                |       | 17.0              |       | 95.0                  |        | -                         |       | -                       |       | NW                      |       | -             |       | 1.0                  |       | 17.0                  |       |
| Total         | 555.5                | 655.5 | 823.5                | 916.0 | 641.5               | 714.0 | 610.0             | 660.0 | 2729.0                | 2540.0 | -                         | -     | 0.5                     | 6.9   |                         |       | -             | -     | 26.0                 | 25.0  | 641.0                 | 809.5 |
| Average       | 18.5                 | 21.9  | 27.5                 | 30.5  | 21.4                | 23.8  | 20.3              | 22.0  | 91.0                  | 84.7   | -                         | -     | 0.0                     | 0.2   |                         |       |               |       |                      |       | 21.4                  | 27.0  |
|               | 20.2                 |       | 29.0                 |       | 22.6                |       | 21.2              |       | 87.8                  |        | 0.0                       |       | 0.1                     |       |                         |       | 0.0           |       | 51.0                 |       | 24.2                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| December 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM         |                      | 17.0  |                      | 29.0  |                     | 21.0  |                   | 19.0  |                       | 82.0   |                           | -     |                         | 0.0   |                         | N     |               | -     |                      | 1.0   |                       | 23.0  |
| 1             | 13.0                 | 22.0  | 25.0                 | 28.0  | 21.0                | 22.0  | 19.0              | 19.0  | 82.0                  | 74.0   | -                         | -     | -                       | 0.3   | SW                      | NW    | -             | -     | 1.5                  | 1.2   | 17.0                  | 24.0  |
| 2             | 14.0                 | 21.5  | 26.0                 | 28.0  | 16.0                | 21.0  | 15.0              | 19.0  | 89.0                  | 72.0   | -                         | -     | -                       | 0.2   | NW                      | N     | -             | -     | 0.5                  | 1.4   | 17.0                  | 23.0  |
| 3             | 13.0                 | 17.5  | 23.0                 | 27.0  | 16.0                | 21.0  | 15.0              | 19.0  | 89.0                  | 82.0   | -                         | -     | 0.0                     | 0.2   | N                       | N     | -             | -     | 0.8                  | 1.5   | 16.0                  | 24.0  |
| 4             | 11.5                 | 17.0  | 24.0                 | 27.0  | 16.0                | 20.0  | 15.0              | 19.0  | 89.0                  | 91.0   | -                         | -     | 0.0                     | 0.1   | N                       | NW    | -             | -     | 0.9                  | 1.2   | 15.0                  | 23.0  |
| 5             | 13.0                 | 23.0  | 25.0                 | 27.0  | 17.0                | 22.0  | 16.0              | 21.0  | 90.0                  | 91.0   | -                         | -     | 0.1                     | 0.2   | SW                      | NW    | -             | -     | 0.8                  | 1.0   | 15.0                  | 23.0  |
| 6             | 13.0                 | 22.0  | 24.0                 | 27.0  | 21.0                | 21.0  | 14.0              | 20.0  | 82.0                  | 91.0   | -                         | -     | -                       | 0.1   | SW                      | NW    | -             | -     | 0.9                  | 1.1   | 16.0                  | 24.0  |
| 7             | 14.0                 | 19.0  | 26.0                 | 27.0  | 21.0                | 22.0  | 19.5              | 20.0  | 86.0                  | 82.0   | -                         | -     | 0.1                     | 0.2   | NW                      | NW    | -             | -     | 1.2                  | 1.4   | 17.0                  | 24.0  |
| 8             | 18.0                 | 16.0  | 26.0                 | 26.0  | 19.0                | 22.0  | 18.0              | 20.0  | 90.0                  | 82.0   | -                         | -     | -                       | 0.3   | SW                      | SW    | -             | -     | 0.5                  | 1.7   | 17.5                  | 22.0  |
| 9             | 12.0                 | 17.0  | 25.0                 | 27.0  | 21.0                | 22.0  | 19.0              | 20.0  | 82.0                  | 82.0   | -                         | -     | -                       | 0.5   | SW                      | NW    | -             | -     | 0.4                  | 1.5   | 16.0                  | 23.0  |
| 10            | 11.0                 | 19.0  | 24.0                 | 27.0  | 23.0                | 22.0  | 21.0              | 19.0  | 83.0                  | 74.0   | -                         | -     | 0.4                     | 0.0   | NW                      | NW    | -             | -     | 0.8                  | 1.7   | 15.0                  | 24.0  |
| 11            | 16.0                 | 18.0  | 28.0                 | 27.0  | 20.0                | 23.0  | 19.0              | 21.0  | 80.0                  | 83.0   | -                         | -     | 0.0                     | -     | SW                      | SW    | -             | -     | 1.2                  | 1.0   | 16.0                  | 23.0  |
| 12            | 13.0                 | 21.0  | 23.0                 | 29.0  | 19.0                | 23.0  | 18.0              | 21.0  | 90.0                  | 92.0   | -                         | -     | 0.1                     | -     | SE                      | N     | -             | -     | 0.8                  | 0.8   | 17.0                  | 23.0  |
| 13            | 15.0                 | 18.0  | 27.0                 | 29.0  | 18.0                | 22.5  | 17.0              | 21.0  | 90.0                  | 87.0   | -                         | -     | -                       | 0.1   | N                       | SW    | -             | -     | 0.9                  | 0.7   | 17.0                  | 23.0  |
| 14            | 16.0                 | 19.5  | 27.0                 | 30.0  | 19.5                | 23.0  | 18.5              | 21.0  | 90.0                  | 86.0   | -                         | -     | 0.0                     | -     | SW                      | N     | -             | -     | 0.6                  | 1.0   | 17.0                  | 24.5  |
| 15            | 17.0                 | 19.0  | 26.0                 | 30.0  | 19.0                | 23.0  | 18.0              | 21.0  | 90.0                  | 83.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 0.7                  | 0.8   | 17.0                  | 24.0  |
| 16            | 15.0                 | 20.0  | 26.0                 | 30.0  | 19.0                | 22.5  | 18.0              | 21.0  | 90.0                  | 87.0   | -                         | -     | -                       | 0.3   | N                       | N     | -             | -     | 0.8                  | 0.7   | 16.0                  | 23.0  |
| 17            | 15.0                 | 17.0  | 27.0                 | 29.0  | 17.0                | 22.0  | 16.5              | 21.0  | 95.0                  | 91.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 0.7                  | 0.6   | 17.0                  | 21.0  |
| 18            | 13.5                 | 18.0  | 26.0                 | 28.0  | 17.0                | 20.5  | 16.0              | 18.0  | 90.0                  | 77.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.7                  | 0.6   | 16.0                  | 24.0  |
| 19            | 11.0                 | 14.0  | 24.0                 | 25.0  | 14.0                | 19.5  | 13.5              | 17.0  | 94.0                  | 76.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.5                  | 0.7   | 14.0                  | 20.0  |
| 20            | 10.5                 | 15.0  | 23.0                 | 27.0  | 14.0                | 20.0  | 13.0              | 18.0  | 89.0                  | 81.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 0.7                  | 0.6   | 13.5                  | 20.0  |
| 21            | 10.5                 | 15.0  | 23.0                 | 27.5  | 14.0                | 20.0  | 13.0              | 18.0  | 94.0                  | 73.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.7                  | 0.6   | 13.5                  | 20.0  |
| 22            | 10.0                 | 22.0  | 22.5                 | 29.0  | 15.0                | 21.0  | 14.0              | 19.0  | 94.0                  | 82.0   | -                         | -     | -                       | -     | N                       | NW    | -             | -     | 0.8                  | 0.7   | 13.0                  | 22.0  |
| 23            | 13.0                 | 15.0  | 25.0                 | 27.0  | 14.5                | 21.0  | 14.0              | 19.0  | 94.0                  | 82.0   | -                         | -     | 0.1                     | 0.2   | N                       | N     | -             | -     | 0.5                  | 0.5   | 15.0                  | 21.0  |
| 24            | 13.0                 | 12.0  | 25.0                 | 26.0  | 13.0                | 21.0  | 12.5              | 18.5  | 94.0                  | 78.0   | -                         | -     | -                       | -     | N                       | NW    | -             | -     | 0.5                  | 0.5   | 15.0                  | 21.0  |
| 25            | 12.5                 | 14.0  | 25.0                 | 28.0  | 14.5                | 21.0  | 14.0              | 19.5  | 83.0                  | 86.0   | -                         | -     | -                       | -     | N                       | NW    | -             | -     | 0.5                  | 0.5   | 15.0                  | 21.0  |
| 26            | 13.0                 | 16.0  | 25.0                 | 28.5  | 15.5                | 20.0  | 15.0              | 18.0  | 94.0                  | 81.0   | -                         | -     | -                       | -     | NW                      | N     | -             | -     | 0.5                  | 0.6   | 15.0                  | 21.0  |
| 27            | 10.0                 | 14.0  | 24.0                 | 27.0  | 13.0                | 19.5  | 12.5              | 17.0  | 94.0                  | 76.0   | -                         | -     | -                       | -     | NW                      | N     | -             | -     | 0.5                  | 0.6   | 13.0                  | 19.0  |
| 28            | 9.5                  | 14.0  | 23.0                 | 28.0  | 13.0                | 19.5  | 12.5              | 17.0  | 94.0                  | 76.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 2.0                  | 0.7   | 12.0                  | 19.0  |
| 29            | 11.0                 | 15.0  | 23.0                 | 27.5  | 13.0                | 22.0  | 11.0              | 19.0  | 77.0                  | 82.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 0.5                  | 0.8   | 12.0                  | 20.0  |
| 30            | 10.5                 | 15.5  | 25.0                 | 28.5  | 15.0                | 20.5  | 14.0              | 18.5  | 89.0                  | 81.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 1.0                  | 0.8   | 13.0                  | 20.0  |
| 31            | 11.0                 |       | 24.0                 |       | 15.0                |       | 14.5              |       | 94.0                  |        | -                         |       | -                       | -     | N                       |       | -             |       | 0.7                  |       | 14.0                  |       |
| Total         | 398.5                | 543.0 | 769.5                | 861.0 | 523.0               | 660.5 | 486.0             | 598.5 | 2761.0                | 2543.0 | -                         | -     | 0.7                     | 3.6   |                         |       | -             | -     | 24.1                 | 28.5  | 472.5                 | 686.5 |
| Average       | 12.9                 | 17.5  | 24.8                 | 27.8  | 16.9                | 21.3  | 15.7              | 19.3  | 89.1                  | 82.0   | -                         | -     | 0.0                     | 0.1   |                         |       |               |       |                      |       | 15.2                  | 22.1  |
|               | 15.2                 |       | 26.3                 |       | 19.1                |       | 17.5              |       | 85.5                  |        | 0.0                       |       | 0.1                     |       |                         |       | 0.0           |       | 52.6                 |       | 18.7                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| January 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM        |                      | 17.0  |                      | 28.5  |                     | 22.5  |                   | 21.0  |                       | 87.0   |                           | -     |                         | -     |                         | N     |               | -     |                      | 0.4   |                       | 20.0  |
| 1            | 14.0                 | 16.0  | 27.0                 | 28.0  | 14.5                | 21.0  | 14.0              | 19.0  | 94.0                  | 82.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.6                  | 0.7   | 15.5                  | 22.0  |
| 2            | 14.5                 | 16.5  | 25.0                 | 27.5  | 15.5                | 20.5  | 15.0              | 18.5  | 94.0                  | 81.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 0.7                  | 0.7   | 14.0                  | 21.5  |
| 3            | 12.5                 | 15.0  | 23.5                 | 27.5  | 14.0                | 21.0  | 13.5              | 18.5  | 94.0                  | 78.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 0.7                  | 0.6   | 14.5                  | 21.0  |
| 4            | 11.0                 | 13.0  | 23.0                 | 27.0  | 13.0                | 19.5  | 12.5              | 17.0  | 94.0                  | 76.0   | -                         | -     | -                       | 0.0   | N                       | SW    | -             | -     | 0.5                  | 0.6   | 14.0                  | 20.0  |
| 5            | 10.0                 | 14.0  | 22.0                 | 29.0  | 16.0                | 22.0  | 15.0              | 20.0  | 89.0                  | 82.0   | -                         | -     | -                       | 0.0   | SW                      | NE    | -             | -     | 1.0                  | 0.8   | 13.0                  | 21.0  |
| 6            | 10.0                 | 13.0  | 23.0                 | 27.0  | 12.0                | 20.0  | 11.5              | 18.0  | 82.0                  | 81.0   | -                         | -     | -                       | 0.2   | NE                      | N     | -             | -     | 0.5                  | 0.5   | 12.0                  | 20.0  |
| 7            | 10.0                 | 15.0  | 23.0                 | 27.0  | 12.5                | 20.0  | 12.0              | 18.0  | 94.0                  | 81.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 0.5                  | 0.5   | 12.5                  | 20.0  |
| 8            | 10.0                 | 14.0  | 23.0                 | 27.0  | 12.5                | 20.0  | 12.0              | 18.0  | 94.0                  | 81.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.5                  | 0.6   | 12.0                  | 21.0  |
| 9            | 9.5                  | 13.5  | 22.5                 | 26.0  | 11.5                | 19.0  | 11.0              | 16.5  | 94.0                  | 76.0   | -                         | -     | -                       | 0.1   | NW                      | NW    | -             | -     | 0.6                  | 0.7   | 12.5                  | 20.0  |
| 10           | 9.5                  | 14.0  | 22.5                 | 26.5  | 11.5                | 19.0  | 11.0              | 16.0  | 94.0                  | 72.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 0.7                  | 1.0   | 12.5                  | 20.0  |
| 11           | 10.0                 | 14.0  | 22.0                 | 28.0  | 12.5                | 21.0  | 12.0              | 18.0  | 94.0                  | 73.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 0.7                  | 0.7   | 12.5                  | 21.0  |
| 12           | 12.0                 | 18.0  | 23.0                 | 29.0  | 18.0                | 22.0  | 14.0              | 20.0  | 62.0                  | 82.0   | -                         | -     | -                       | 0.2   | SW                      | NE    | -             | -     | 0.7                  | 0.7   | 15.0                  | 22.0  |
| 13           | 13.0                 | 19.0  | 24.0                 | 29.0  | 16.0                | 23.0  | 15.0              | 19.0  | 89.0                  | 67.0   | -                         | -     | -                       | 0.0   | SE                      | SW    | -             | -     | 0.7                  | 0.9   | 15.0                  | 20.0  |
| 14           | 13.5                 | 17.0  | 25.0                 | 29.0  | 15.0                | 21.5  | 14.5              | 19.0  | 94.0                  | 78.0   | -                         | -     | -                       | 0.1   | NW                      | NW    | -             | -     | 0.7                  | 0.6   | 15.0                  | 22.0  |
| 15           | 13.0                 | 21.0  | 24.0                 | 30.0  | 15.0                | 22.0  | 14.5              | 19.0  | 94.0                  | 74.0   | -                         | -     | -                       | 0.4   | N                       | N     | -             | -     | 0.5                  | 0.5   | 15.0                  | 22.0  |
| 16           | 13.0                 | 20.0  | 23.5                 | 29.0  | 15.0                | 21.5  | 14.0              | 18.5  | 89.0                  | 73.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.7                  | 1.2   | 15.0                  | 22.0  |
| 17           | 9.5                  | 15.0  | 24.0                 | 28.0  | 13.0                | 21.0  | 12.5              | 18.0  | 94.0                  | 73.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 0.6                  | 1.0   | 12.5                  | 21.0  |
| 18           | 9.0                  | 15.0  | 22.5                 | 29.0  | 12.5                | 22.0  | 12.0              | 18.5  | 94.0                  | 70.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 0.9                  | 0.5   | 12.5                  | 21.0  |
| 19           | 9.0                  | 22.0  | 23.0                 | 26.0  | 12.5                | 21.0  | 12.0              | 18.0  | 94.0                  | 73.0   | -                         | -     | 0.1                     | 0.2   | N                       | SE    | -             | -     | 0.5                  | 0.9   | 13.0                  | 22.0  |
| 20           | 10.0                 | 18.0  | 24.0                 | 29.0  | 18.0                | 20.0  | 15.0              | 17.5  | 71.0                  | 77.0   | -                         | -     | 0.1                     | 0.2   | SE                      | N     | -             | -     | 0.9                  | 0.9   | 15.0                  | 21.0  |
| 21           | 10.0                 | 16.0  | 23.0                 | 29.0  | 13.5                | 21.0  | 13.0              | 18.5  | 94.0                  | 78.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 0.6                  | 0.9   | 13.0                  | 21.0  |
| 22           | 10.5                 | 15.0  | 25.0                 | 29.0  | 13.0                | 21.0  | 12.5              | 18.5  | 94.0                  | 78.0   | -                         | -     | -                       | 0.3   | N                       | N     | -             | -     | 0.5                  | 0.8   | 14.0                  | 22.0  |
| 23           | 10.5                 | 16.0  | 24.0                 | 29.0  | 14.0                | 21.0  | 13.0              | 18.5  | 89.0                  | 78.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.8                  | 0.8   | 14.0                  | 22.0  |
| 24           | 15.0                 | 17.5  | 24.0                 | 29.0  | 20.0                | 22.5  | 18.0              | 19.5  | 81.0                  | 74.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 0.9                  | 1.3   | 16.0                  | 23.0  |
| 25           | 14.0                 | 17.5  | 24.0                 | 29.0  | 15.5                | 22.0  | 15.0              | 18.5  | 94.0                  | 70.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 0.9                  | 1.0   | 16.0                  | 23.5  |
| 26           | 14.0                 | 14.0  | 23.0                 | 29.0  | 18.0                | 23.0  | 15.0              | 19.0  | 71.0                  | 67.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.0                  | 0.9   | 16.0                  | 23.5  |
| 27           | 11.0                 | 16.0  | 24.0                 | 28.0  | 14.0                | 20.5  | 13.5              | 17.0  | 95.0                  | 68.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 0.5                  | 0.9   | 14.5                  | 22.0  |
| 28           | 10.0                 | 17.0  | 23.0                 | 29.0  | 15.0                | 23.0  | 14.0              | 20.0  | 89.0                  | 75.0   | -                         | -     | -                       | 0.1   | NW                      | N     | -             | -     | 1.3                  | 0.5   | 14.0                  | 22.0  |
| 29           | 10.0                 | 18.0  | 23.0                 | 30.0  | 12.5                | 22.0  | 12.0              | 18.5  | 94.0                  | 70.0   | -                         | -     | 0.1                     | 0.1   | N                       | N     | -             | -     | 0.7                  | 1.0   | 13.0                  | 22.0  |
| 30           | 19.0                 | 20.0  | 25.0                 | 30.0  | 22.0                | 22.0  | 17.0              | 18.0  | 58.0                  | 66.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.3                  | 0.5   | 15.0                  | 23.0  |
| 31           | 13.5                 |       | 25.0                 |       | 14.5                |       | 14.0              |       | 94.0                  |        | -                         |       | -                       |       | N                       |       | -             |       | 0.7                  |       | 14.0                  |       |
| Total        | 360.5                | 507.0 | 732.5                | 878.0 | 452.5               | 657.5 | 420.0             | 572.0 | 2751.0                | 2341.0 | -                         | -     | 0.3                     | 3.1   |                         |       | -             | -     | 22.4                 | 23.6  | 432.5                 | 664.5 |
| Average      | 11.6                 | 16.4  | 23.6                 | 28.3  | 14.6                | 21.2  | 13.5              | 18.5  | 88.7                  | 75.5   | -                         | -     | 0.0                     | 0.1   |                         |       |               |       |                      |       | 14.0                  | 21.4  |
|              | 14.0                 |       | 26.0                 |       | 17.9                |       | 16.0              |       | 82.1                  |        | 0.0                       |       | 0.1                     |       |                         |       | 0.0           |       | 46.0                 |       | 17.7                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| February 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM         |                      | 20.0  |                      | 32.0  |                     | 24.0  |                   | 18.5  |                       | 57.0   |                           | -     |                         | 0.5   |                         | N     |               | -     |                      | 1.1   |                       | 23.0  |
| 1             | 14.0                 | 23.0  | 28.0                 | 33.0  | 15.0                | 23.5  | 14.5              | 18.5  | 94.0                  | 59.0   | -                         | -     | -                       | 0.8   | N                       | N     | -             | -     | 1.0                  | 1.4   | 15.0                  | 23.0  |
| 2             | 12.0                 | 28.0  | 26.0                 | 39.0  | 22.0                | 24.0  | 17.0              | 19.0  | 58.0                  | 60.0   | -                         | -     | 0.1                     | 0.0   | N                       | N     | -             | -     | 1.5                  | 1.7   | 15.5                  | 25.0  |
| 3             | 17.0                 | 22.0  | 27.0                 | 33.0  | 16.0                | 24.0  | 15.0              | 20.0  | 59.0                  | 68.0   | -                         | -     | 0.1                     | 0.0   | N                       | N     | -             | -     | 1.0                  | 1.1   | 15.0                  | 25.0  |
| 4             | 17.0                 | 23.0  | 27.0                 | 33.0  | 17.0                | 24.0  | 16.0              | 20.0  | 90.0                  | 68.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 1.1                  | 1.3   | 16.0                  | 25.0  |
| 5             | 18.0                 | 24.0  | 27.5                 | 34.5  | 17.0                | 26.0  | 16.5              | 21.5  | 95.0                  | 66.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 1.1                  | 1.1   | 17.0                  | 26.0  |
| 6             | 21.0                 | 25.0  | 28.0                 | 35.0  | 20.0                | 26.0  | 18.0              | 21.0  | 81.0                  | 62.0   | -                         | -     | 0.1                     | 0.2   | N                       | N     | -             | -     | 1.4                  | 1.1   | 19.0                  | 26.5  |
| 7             | 18.0                 | 25.0  | 28.0                 | 34.0  | 18.0                | 24.5  | 17.0              | 21.5  | 90.0                  | 75.0   | -                         | -     | -                       | 0.0   | N                       | N     | -             | -     | 1.1                  | 0.9   | 18.0                  | 26.0  |
| 8             | 19.0                 | 24.0  | 28.0                 | 35.0  | 20.0                | 26.5  | 19.5              | 22.0  | 95.0                  | 66.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.0                  | 1.4   | 21.0                  | 27.0  |
| 9             | 18.5                 | 25.0  | 27.0                 | 35.0  | 20.0                | 25.0  | 19.5              | 22.0  | 95.0                  | 76.0   | -                         | -     | -                       | 0.0   | NW                      | SW    | -             | -     | 1.0                  | 1.2   | 21.0                  | 27.0  |
| 10            | 18.0                 | 26.0  | 27.5                 | 34.5  | 19.0                | 26.0  | 18.0              | 22.0  | 90.0                  | 69.0   | -                         | -     | -                       | 0.1   | SW                      | N     | -             | -     | 2.1                  | 1.0   | 20.0                  | 27.0  |
| 11            | 19.0                 | 25.0  | 28.0                 | 35.0  | 20.0                | 26.0  | 19.0              | 21.0  | 91.0                  | 62.0   | -                         | -     | 0.0                     | 0.1   | SW                      | SE    | -             | -     | 1.8                  | 1.0   | 21.0                  | 27.0  |
| 12            | 18.5                 | 25.0  | 28.0                 | 34.0  | 20.0                | 24.0  | 19.0              | 20.0  | 91.0                  | 68.0   | -                         | -     | 0.1                     | 0.2   | N                       | N     | -             | -     | 1.9                  | 1.0   | 19.0                  | 27.0  |
| 13            | 17.5                 | 24.5  | 27.0                 | 34.5  | 20.0                | 25.0  | 18.0              | 21.0  | 81.0                  | 68.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 1.6                  | 0.9   | 20.0                  | 27.0  |
| 14            | 18.0                 | 24.0  | 27.5                 | 32.0  | 19.0                | 26.0  | 18.0              | 21.5  | 90.0                  | 66.0   | -                         | -     | -                       | 0.1   | SE                      | NW    | -             | -     | 1.2                  | 1.4   | 19.0                  | 27.0  |
| 15            | 22.5                 | 22.0  | 30.0                 | 32.0  | 19.0                | 25.5  | 18.0              | 21.0  | 90.0                  | 65.0   | -                         | -     | 0.1                     | 0.2   | NW                      | N     | -             | -     | 0.9                  | 1.4   | 20.0                  | 27.0  |
| 16            | 16.0                 | 21.0  | 30.0                 | 34.0  | 22.0                | 26.0  | 19.0              | 21.0  | 74.0                  | 62.0   | -                         | -     | -                       | 0.3   | SW                      | N     | -             | -     | 1.0                  | 2.2   | 21.0                  | 26.5  |
| 17            | 15.0                 | 21.5  | 30.0                 | 35.0  | 18.0                | 26.0  | 16.0              | 21.5  | 80.0                  | 66.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.3                  | 1.4   | 17.0                  | 25.0  |
| 18            | 16.0                 | 22.0  | 30.0                 | 35.0  | 18.0                | 26.0  | 16.0              | 21.0  | 80.0                  | 62.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 0.8                  | 1.8   | 18.0                  | 26.0  |
| 19            | 17.5                 | 27.5  | 30.0                 | 31.0  | 24.0                | 27.5  | 19.5              | 22.0  | 64.0                  | 59.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.8                  | 2.2   | 19.0                  | 27.5  |
| 20            | 18.0                 | 27.0  | 30.5                 | 31.0  | 24.0                | 27.0  | 22.0              | 22.0  | 83.0                  | 63.0   | -                         | -     | 0.0                     | 0.1   | N                       | N     | -             | -     | 1.7                  | 1.4   | 19.0                  | 27.5  |
| 21            | 21.0                 | 24.0  | 31.0                 | 35.0  | 21.0                | 27.0  | 19.0              | 22.0  | 82.0                  | 63.0   | -                         | -     | -                       | 0.0   | N                       | NW    | -             | -     | 2.5                  | 1.6   | 19.5                  | 27.5  |
| 22            | 20.0                 | 25.0  | 33.0                 | 36.0  | 27.0                | 28.0  | 19.5              | 22.0  | 81.0                  | 57.0   | -                         | -     | 0.1                     | 0.1   | NW                      | N     | -             | -     | 1.8                  | 1.6   | 20.0                  | 27.5  |
| 23            | 24.0                 | 25.0  | 30.0                 | 36.0  | 22.0                | 29.0  | 19.0              | 23.0  | 74.0                  | 58.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.2                  | 1.4   | 19.0                  | 18.0  |
| 24            | 22.0                 | 23.0  | 32.0                 | 38.0  | 20.0                | 30.0  | 18.0              | 23.0  | 81.0                  | 53.0   | -                         | -     | -                       | -     | SW                      | N     | -             | -     | 1.3                  | 2.2   | 19.0                  | 28.5  |
| 25            | 23.0                 | 23.5  | 31.0                 | 37.5  | 21.0                | 30.0  | 19.0              | 22.5  | 82.0                  | 50.0   | -                         | -     | -                       | 0.1   | SW                      | N     | -             | -     | 1.4                  | 1.5   | 20.0                  | 28.0  |
| 26            | 19.0                 | 24.0  | 32.0                 | 36.0  | 21.0                | 29.0  | 19.0              | 23.5  | 78.0                  | 61.0   | -                         | -     | 0.1                     | 0.2   | NW                      | N     | -             | -     | 2.7                  | 1.6   | 20.0                  | 28.0  |
| 27            | 20.0                 | 24.0  | 33.0                 | 36.5  | 21.5                | 29.0  | 20.0              | 21.0  | 86.0                  | 46.0   | -                         | -     | -                       | 0.8   | N                       | N     | -             | -     | 1.3                  | 2.0   | 21.0                  | 28.0  |
| 28            | 17.0                 |       | 33.0                 |       | 20.5                |       | 17.5              |       | 73.0                  |        | -                         |       | -                       |       | N                       |       | -             |       | 1.6                  |       | 19.0                  |       |
| Total         | 516.5                | 673.0 | 820.0                | 966.5 | 562.0               | 734.5 | 506.5             | 595.0 | 2308.0                | 1755.0 | -                         | -     | 0.6                     | 4.2   |                         |       | -             | -     | 40.1                 | 39.9  | 528.0                 | 733.5 |
| Average       | 18.4                 | 24.0  | 29.3                 | 34.5  | 20.1                | 26.2  | 18.1              | 21.3  | 82.4                  | 62.7   | -                         | -     | 0.0                     | 0.2   |                         |       |               |       |                      |       | 18.9                  | 26.2  |
|               | 21.2                 |       | 31.9                 |       | 23.2                |       | 19.7              |       | 72.6                  |        | 0.0                       |       | 0.1                     |       |                         |       | 0.0           |       | 80.0                 |       | 22.5                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| March 2018 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM      |                      | 23.0  |                      | 37.0   |                     | 29.0  |                   | 23.0  |                       | 58.0   |                           | -     |                         | 0.2   |                         | N     |               | -     |                      | 2.0   |                       | 28.0  |
| 1          | 23.0                 | 22.5  | 33.0                 | 37.0   | 20.0                | 29.0  | 18.5              | 23.0  | 86.0                  | 58.0   | -                         | -     | -                       | 0.9   | N                       | N     | -             | -     | 1.6                  | 2.0   | 20.0                  | 28.5  |
| 2          | 19.5                 | 20.0  | 32.0                 | 38.0   | 21.0                | 30.0  | 19.0              | 25.0  | 82.0                  | 65.0   | -                         | -     | 0.0                     | 0.1   | N                       | SW    | -             | -     | 1.7                  | 1.5   | 21.0                  | 29.0  |
| 3          | 20.0                 | 24.0  | 34.0                 | 38.0   | 21.5                | 30.0  | 20.0              | 23.0  | 86.0                  | 53.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 2.0                  | 2.3   | 21.0                  | 30.0  |
| 4          | 21.0                 | 25.5  | 34.0                 | 37.5   | 23.0                | 30.0  | 20.5              | 24.0  | 79.0                  | 59.0   | -                         | -     | -                       | 0.1   | N                       | N     | -             | -     | 1.8                  | 1.5   | 21.5                  | 30.0  |
| 5          | 22.0                 | 26.0  | 38.0                 | 37.0   | 23.0                | 30.5  | 20.0              | 22.0  | 75.0                  | 44.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 1.8                  | 1.8   | 22.0                  | 29.0  |
| 6          | 21.0                 | 24.0  | 34.0                 | 35.0   | 21.0                | 29.0  | 20.0              | 24.0  | 91.0                  | 64.0   | -                         | -     | 0.0                     | 0.0   | N                       | N     | -             | -     | 1.7                  | 1.4   | 22.0                  | 29.0  |
| 7          | 21.0                 | 24.5  | 33.0                 | 36.5   | 22.0                | 30.0  | 20.0              | 24.0  | 82.0                  | 59.0   | -                         | -     | -                       | 0.2   | N                       | N     | -             | -     | 1.0                  | 1.7   | 22.0                  | 30.0  |
| 8          | 23.0                 | 26.0  | 34.0                 | 38.0   | 24.0                | 30.0  | 23.0              | 23.0  | 91.0                  | 53.0   | -                         | -     | -                       | 0.5   | NW                      | N     | -             | -     | 1.5                  | 1.5   | 23.0                  | 30.0  |
| 9          | 22.0                 | 22.0  | 33.0                 | 35.0   | 23.0                | 30.0  | 18.5              | 23.0  | 63.0                  | 53.0   | -                         | -     | -                       | 0.2   | N                       | NW    | -             | -     | 2.2                  | 1.6   | 23.0                  | 29.0  |
| 10         | 23.0                 | 27.0  | 34.0                 | 33.0   | 23.0                | 24.0  | 21.0              | 22.0  | 82.0                  | 83.0   | -                         | -     | -                       | 0.2   | NE                      | N     | -             | -     | 2.0                  | 2.8   | 24.0                  | 30.0  |
| 11         | 23.0                 | 25.0  | 33.5                 | 36.0   | 22.0                | 29.0  | 21.0              | 22.0  | 91.0                  | 52.0   | -                         | -     | 0.0                     | 0.0   | NE                      | SW    | -             | -     | 1.8                  | 1.6   | 24.0                  | 30.0  |
| 12         | 23.0                 | 27.5  | 36.0                 | 36.0   | 25.0                | 30.0  | 22.0              | 24.0  | 76.0                  | 59.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 1.8                  | 1.7   | 24.0                  | 31.0  |
| 13         | 23.0                 | 28.0  | 34.0                 | 37.0   | 29.0                | 31.0  | 25.0              | 26.0  | 76.0                  | 66.0   | -                         | -     | -                       | 0.0   | NE                      | SW    | -             | -     | 1.0                  | 1.5   | 24.0                  | 31.5  |
| 14         | 24.0                 | 20.0  | 35.0                 | 38.0   | 27.0                | 31.0  | 23.0              | 24.0  | 70.0                  | 54.0   | -                         | -     | -                       | 0.6   | SW                      | NE    | -             | -     | 1.4                  | 1.8   | 26.0                  | 30.0  |
| 15         | 24.0                 | 30.5  | 35.0                 | 38.0   | 24.0                | 30.0  | 21.0              | 23.5  | 75.0                  | 56.0   | -                         | -     | 0.0                     | 0.0   | NE                      | NE    | -             | -     | 2.6                  | 1.6   | 23.0                  | 30.0  |
| 16         | 22.0                 | 28.5  | 33.0                 | 31.0   | 24.0                | 24.0  | 20.0              | 21.0  | 68.0                  | 75.0   | -                         | -     | 0.1                     | 0.3   | N                       | N     | -             | 1.0   | 2.0                  | 1.0   | 24.0                  | 26.0  |
| 17         | 21.0                 | 24.0  | 28.0                 | 32.0   | 21.0                | 30.0  | 20.0              | 24.0  | 91.0                  | 89.0   | -                         | -     | 0.1                     | 0.0   | SW                      | W     | 0.4           | -     | ..                   | 0.8   | 22.0                  | 28.0  |
| 18         | 22.0                 | 26.0  | 32.5                 | 37.0   | 24.0                | 30.0  | 21.0              | 25.0  | 75.0                  | 65.0   | -                         | -     | -                       | 0.1   | SW                      | SW    | -             | -     | 1.2                  | 1.9   | 23.0                  | 31.0  |
| 19         | 23.0                 | 28.0  | 31.0                 | 37.0   | 25.0                | 31.0  | 21.0              | 23.0  | 68.0                  | 48.0   | -                         | -     | 0.1                     | 0.2   | SW                      | N     | -             | -     | 2.1                  | 1.7   | 22.5                  | 30.0  |
| 20         | 21.0                 | 26.0  | 31.0                 | 36.0   | 23.0                | 30.0  | 20.0              | 24.0  | 75.0                  | 73.0   | -                         | -     | 0.1                     | 0.0   | S                       | SW    | -             | -     | 2.0                  | 1.6   | 21.5                  | 30.0  |
| 21         | 21.0                 | 22.0  | 33.0                 | 37.5   | 24.0                | 30.0  | 21.0              | 25.0  | 75.0                  | 65.0   | -                         | -     | -                       | -     | N                       | N     | -             | -     | 2.2                  | 1.4   | 22.5                  | 30.0  |
| 22         | 23.0                 | 22.5  | 31.0                 | 36.0   | 24.0                | 29.0  | 20.0              | 24.0  | 68.0                  | 64.0   | -                         | -     | 0.1                     | 0.0   | N                       | SW    | -             | -     | 1.6                  | 1.6   | 22.5                  | 30.0  |
| 23         | 24.0                 | 31.0  | 32.0                 | 40.0   | 29.0                | 32.0  | 24.0              | 25.0  | 64.0                  | 55.0   | -                         | -     | 0.1                     | 0.3   | NW                      | SW    | -             | -     | 1.5                  | 3.1   | 23.0                  | 32.0  |
| 24         | 22.0                 | 32.0  | 35.0                 | 39.0   | 24.0                | 32.0  | 21.0              | 24.0  | 75.0                  | 49.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 1.8                  | 1.9   | 23.0                  | 31.0  |
| 25         | 23.0                 | 31.0  | 36.0                 | 39.0   | 29.0                | 33.0  | 25.0              | 24.0  | 71.0                  | 45.0   | -                         | -     | -                       | 0.1   | SW                      | NE    | -             | -     | 1.6                  | 1.6   | 24.0                  | 31.0  |
| 26         | 25.0                 | 28.0  | 38.0                 | 39.0   | 25.5                | 31.0  | 22.0              | 24.0  | 72.0                  | 54.0   | -                         | -     | -                       | 0.5   | N                       | N     | -             | -     | 1.2                  | 2.9   | 24.0                  | 31.0  |
| 27         | 21.0                 | 27.0  | 36.0                 | 40.0   | 24.0                | 32.0  | 21.0              | 25.0  | 75.0                  | 53.0   | -                         | -     | -                       | 0.2   | N                       | W     | -             | -     | 1.4                  | 2.1   | 24.5                  | 31.0  |
| 28         | 20.5                 | 25.5  | 36.0                 | 39.5   | 23.0                | 31.5  | 20.0              | 25.0  | 75.0                  | 59.0   | -                         | -     | -                       | 0.1   | W                       | W     | -             | -     | 2.0                  | 1.7   | 24.5                  | 31.0  |
| 29         | 24.0                 | 28.5  | 36.0                 | 39.5   | 26.0                | 29.5  | 24.0              | 24.0  | 84.0                  | 51.0   | -                         | -     | -                       | 0.1   | N                       | SW    | -             | -     | 1.5                  | 1.4   | 24.0                  | 31.0  |
| 30         | 26.0                 | 30.0  | 35.0                 | 39.0   | 28.0                | 32.0  | 27.0              | 28.0  | 92.0                  | 73.0   | -                         | -     | -                       | 0.0   | SW                      | NE    | -             | -     | 1.0                  | 1.5   | 24.0                  | 30.0  |
| 31         | 27.5                 |       | 36.0                 |        | 28.0                |       | 25.0              |       | 77.0                  |        | -                         |       | 0.1                     |       | N                       |       | -             |       | 1.8                  |       | 27.0                  |       |
| Total      | 698.5                | 805.5 | 1052.0               | 1148.5 | 750.0               | 929.5 | 664.5             | 740.5 | 2410.0                | 1854.0 | -                         | -     | 0.6                     | 5.1   |                         |       | 0.4           | 1.4   | 50.8 *               | 54.5  | 716.5                 | 928.0 |
| Average    | 22.5                 | 26.0  | 33.9                 | 37.0   | 24.2                | 30.0  | 21.4              | 23.9  | 77.7                  | 59.8   | -                         | -     | 0.0                     | 0.2   |                         |       |               |       |                      |       | 23.1                  | 29.9  |
|            | 24.3                 |       | 35.5                 |        | 27.1                |       | 22.7              |       | 68.8                  |        | 0.0                       |       | 0.1                     |       |                         |       | 1.4           |       | 105.3 *              |       | 26.5                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| April 2018 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM        |                      | 30.0  |                      | 39.0   |                     | 32.0  |                   | 29.0  |                       | 79.0   |                           | -     |                         | 0.2   |                         | NW    |               | -     |                      | 2.0   |                       | 32.0  |
| 1          | 23.5                 | 28.0  | 35.5                 | 39.5   | 26.0                | 30.0  | 22.0              | 24.0  | 69.0                  | 59.0   | -                         | -     | 0.1                     | 0.3   | E                       | N     | -             | -     | 2.4                  | 2.5   | 24.0                  | 31.0  |
| 2          | 21.5                 | 26.0  | 39.0                 | 35.0   | 24.0                | 31.0  | 21.5              | 24.0  | 79.0                  | 54.0   | -                         | -     | 0.2                     | 0.1   | SE                      | E     | 6.8           | -     | 4.0                  | 1.3   | 22.0                  | 30.0  |
| 3          | 25.0                 | 29.0  | 34.0                 | 38.0   | 26.0                | 32.0  | 24.0              | 25.0  | 84.0                  | 55.0   | -                         | -     | -                       | 0.2   | SE                      | N     | -             | -     | 1.2                  | 2.9   | 26.0                  | 33.0  |
| 4          | 26.0                 | 31.0  | 36.0                 | 39.0   | 28.0                | 33.5  | 25.0              | 25.5  | 72.0                  | 50.0   | -                         | -     | -                       | 0.3   | E                       | N     | -             | -     | 1.5                  | 2.0   | 26.0                  | 33.0  |
| 5          | 25.0                 | 30.0  | 35.5                 | 39.0   | 27.5                | 33.5  | 24.0              | 25.0  | 73.0                  | 47.0   | -                         | -     | 0.1                     | 0.1   | N                       | NW    | -             | -     | 2.6                  | 2.6   | 26.0                  | 33.0  |
| 6          | 28.0                 | 29.0  | 36.0                 | 39.0   | 32.0                | 34.0  | 27.0              | 28.0  | 67.0                  | 62.0   | -                         | -     | 0.1                     | 0.2   | SW                      | NE    | -             | -     | 1.8                  | 2.8   | 24.0                  | 34.0  |
| 7          | 26.0                 | 26.0  | 37.0                 | 39.0   | 29.0                | 30.0  | 23.0              | 22.0  | 58.0                  | 47.0   | -                         | -     | 0.1                     | 0.1   | SE                      | SW    | -             | -     | 2.4                  | 2.9   | 26.0                  | 32.0  |
| 8          | 24.0                 | 23.0  | 33.0                 | 35.0   | 26.0                | 31.0  | 24.0              | 24.0  | 84.0                  | 54.0   | -                         | -     | 0.1                     | 0.1   | NE                      | NE    | 1.2           | -     | -                    | 2.0   | 25.0                  | 30.0  |
| 9          | 26.0                 | 28.0  | 34.0                 | 39.0   | 26.0                | 30.0  | 24.0              | 22.0  | 84.0                  | 47.0   | -                         | -     | -                       | 0.7   | E                       | SW    | -             | -     | 1.3                  | 2.5   | 26.0                  | 28.0  |
| 10         | 21.0                 | 26.0  | 32.0                 | 35.5   | 24.0                | 26.5  | 22.0              | 23.0  | 83.0                  | 73.0   | -                         | -     | 0.2                     | 0.1   | SW                      | SW    | 42.0          | -     | 10.5                 | 1.8   | 24.0                  | 31.0  |
| 11         | 24.0                 | 24.0  | 35.0                 | 37.0   | 24.5                | 32.0  | 22.0              | 26.0  | 79.0                  | 61.0   | -                         | -     | 0.0                     | 0.2   | SE                      | NW    | -             | -     | 2.0                  | 2.9   | 23.0                  | 32.0  |
| 12         | 25.0                 | 31.0  | 37.0                 | 38.5   | 28.0                | 28.5  | 25.0              | 24.0  | 77.0                  | 67.0   | -                         | -     | -                       | 0.6   | NW                      | SW    | -             | -     | 1.5                  | 2.6   | 27.0                  | 32.0  |
| 13         | 24.0                 | 27.0  | 32.0                 | 37.0   | 24.0                | 32.0  | 21.0              | 27.0  | 75.0                  | 67.0   | -                         | -     | 0.1                     | 0.2   | SE                      | NE    | -             | -     | 1.8                  | 2.9   | 25.0                  | 33.0  |
| 14         | 27.0                 | 31.0  | 35.0                 | 39.0   | 28.5                | 33.0  | 24.5              | 27.0  | 70.0                  | 62.0   | -                         | -     | -                       | 0.3   | NE                      | NE    | -             | -     | 0.9                  | 2.4   | 27.0                  | 33.0  |
| 15         | 27.0                 | 26.5  | 37.0                 | 39.5   | 28.5                | 33.5  | 24.5              | 27.5  | 70.0                  | 62.0   | -                         | -     | 0.1                     | 0.3   | SE                      | SE    | -             | -     | 1.7                  | 2.6   | 27.0                  | 34.0  |
| 16         | 27.0                 | 26.5  | 37.0                 | 40.0   | 28.5                | 34.5  | 24.5              | 27.5  | 70.0                  | 56.0   | -                         | -     | 0.1                     | 0.2   | NW                      | NW    | -             | -     | 1.6                  | 3.0   | 27.0                  | 34.5  |
| 17         | 28.0                 | 34.0  | 38.0                 | 41.5   | 32.0                | 34.5  | 26.5              | 26.5  | 64.0                  | 51.0   | -                         | -     | 0.1                     | 0.1   | NE                      | NE    | -             | -     | 2.0                  | 2.7   | 28.0                  | 35.0  |
| 18         | 27.5                 | 28.0  | 38.0                 | 41.0   | 30.0                | 33.0  | 25.0              | 26.0  | 65.0                  | 56.0   | -                         | -     | 0.0                     | 0.4   | SW                      | SW    | -             | -     | 2.6                  | 3.0   | 27.5                  | 34.0  |
| 19         | 27.0                 | 32.5  | 36.5                 | 40.5   | 30.0                | 35.5  | 25.0              | 27.5  | 65.0                  | 52.0   | -                         | -     | -                       | 0.2   | SW                      | SW    | -             | -     | 2.5                  | 3.0   | 27.5                  | 35.0  |
| 20         | 30.0                 | 33.0  | 38.0                 | 41.0   | 34.0                | 36.0  | 28.0              | 28.0  | 62.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | SW                      | NW    | -             | -     | 2.8                  | 2.8   | 28.0                  | 33.0  |
| 21         | 26.0                 | 33.0  | 41.0                 | 41.0   | 30.0                | 26.0  | 25.5              | 25.5  | 68.0                  | 96.0   | -                         | -     | 0.2                     | 0.2   | NW                      | NE    | 1.0           | -     | 3.0                  | 3.0   | 26.0                  | 34.0  |
| 22         | 28.0                 | 33.5  | 39.0                 | 41.5   | 31.0                | 30.0  | 27.0              | 29.0  | 73.0                  | 92.0   | -                         | -     | 0.0                     | 0.0   | SW                      | NW    | -             | -     | 3.0                  | 2.9   | 29.0                  | 34.0  |
| 23         | 31.0                 | 36.0  | 42.5                 | 41.0   | 32.0                | 35.0  | 25.0              | 26.0  | 55.0                  | 47.0   | -                         | -     | 0.1                     | 0.1   | NE                      | E     | -             | -     | 3.0                  | 3.0   | 30.0                  | 35.0  |
| 24         | 29.0                 | 29.0  | 39.0                 | 40.0   | 31.0                | 32.0  | 25.0              | 24.0  | 60.0                  | 49.0   | -                         | -     | 0.0                     | 0.5   | E                       | NE    | -             | -     | 2.8                  | 2.8   | 29.0                  | 34.0  |
| 25         | 33.0                 | 33.0  | 36.0                 | 41.0   | 30.0                | 34.0  | 24.0              | 26.0  | 59.0                  | 51.0   | -                         | -     | 0.1                     | 0.3   | NW                      | SW    | -             | -     | 2.6                  | 2.9   | 30.0                  | 34.0  |
| 26         | 27.0                 | 34.0  | 41.0                 | 42.0   | 32.0                | 34.0  | 26.0              | 23.0  | 61.0                  | 36.0   | -                         | -     | -                       | 0.8   | NE                      | NW    | -             | -     | 2.6                  | 3.2   | 28.0                  | 33.0  |
| 27         | 31.0                 | 33.0  | 42.0                 | 41.0   | 31.0                | 35.0  | 25.0              | 26.0  | 60.0                  | 47.0   | -                         | -     | 0.2                     | 0.1   | NE                      | NW    | -             | -     | 3.3                  | 2.8   | 26.5                  | 35.0  |
| 28         | 30.0                 | 33.0  | 41.5                 | 40.0   | 31.0                | 34.0  | 25.0              | 26.0  | 60.0                  | 51.0   | -                         | -     | 0.1                     | 0.0   | NE                      | NW    | -             | 5.6   | 3.0                  | 2.6   | 27.0                  | 25.0  |
| 29         | 27.0                 | 32.5  | 41.0                 | 41.0   | 28.0                | 34.0  | 25.0              | 26.0  | 77.0                  | 51.0   | -                         | -     | 0.5                     | 0.1   | NW                      | NW    | -             | -     | 3.2                  | 2.7   | 27.0                  | 25.0  |
| 30         | 28.0                 |       | 39.0                 |        | 29.0                |       | 26.0              |       | 76.0                  |        | -                         |       | 0.1                     |       | NE                      |       | 1.4           |       | 3.5                  |       | 30.0                  |       |
| Total      | 802.5                | 896.5 | 1117.5               | 1180.5 | 861.5               | 970.0 | 736.0             | 770.0 | 2099.0                | 1734.0 | -                         | -     | 2.6                     | 6.9   |                         |       | 52.4          | 5.6   | 77.1                 | 79.1  | 798.5                 | 971.5 |
| Average    | 26.8                 | 29.9  | 37.3                 | 39.4   | 28.7                | 32.3  | 24.5              | 25.7  | 70.0                  | 57.8   | -                         | -     | 0.1                     | 0.2   |                         |       |               |       |                      |       | 26.6                  | 32.4  |
|            | 28.3                 |       | 38.3                 |        | 30.5                |       | 25.1              |       | 63.9                  |        | 0.0                       |       | 0.2                     |       |                         |       | 58.0          |       | 156.2                |       | 29.5                  |       |

## Twice Daily Climatic Data

Station Code : EMF00K6

Local River/Basin : Tel

Station Name : KESINGA

Sub-Division : MMSD II,CWC,Burla

- 0.0 .. N.A.

| May 2018 |                      |        |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|----------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|          | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day      | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM    |                      | 29.0   |                      | 40.0   |                     | 35.0   |                   | 29.0  |                       | 63.0   |                           | -     |                         | 0.1   |                         | SW    |               | -     |                      | 3.0   |                       | 36.0   |
| 1        | 29.0                 | 30.0   | 39.0                 | 35.0   | 27.0                | 30.0   | 24.0              | 24.0  | 77.0                  | 59.0   | -                         | -     | 0.1                     | 0.2   | S                       | SW    | -             | -     | 2.9                  | 1.2   | 27.0                  | 30.0   |
| 2        | 32.0                 | 33.0   | 34.0                 | 40.0   | 30.0                | 34.0   | 24.0              | 26.0  | 59.0                  | 51.0   | -                         | -     | 0.0                     | 0.1   | SW                      | NE    | -             | -     | 1.5                  | 2.0   | 28.0                  | 30.0   |
| 3        | 24.0                 | 28.0   | 36.0                 | 45.0   | 26.0                | 30.0   | 23.0              | 25.0  | 76.0                  | 65.0   | -                         | -     | 0.5                     | 0.4   | SE                      | SW    | 7.2           | -     | 2.5                  | 2.2   | 26.0                  | 29.0   |
| 4        | 26.0                 | 29.0   | 33.0                 | 39.0   | 25.0                | 32.0   | 23.0              | 26.0  | 84.0                  | 61.0   | -                         | -     | -                       | 0.0   | W                       | N     | -             | -     | 2.5                  | 2.5   | 24.0                  | 30.0   |
| 5        | 27.0                 | 35.0   | 37.0                 | 40.5   | 32.0                | 36.0   | 26.0              | 27.0  | 61.0                  | 48.0   | -                         | -     | 0.0                     | -     | SW                      | SE    | -             | -     | 3.0                  | 2.2   | 27.0                  | 37.0   |
| 6        | 28.0                 | 35.0   | 38.0                 | 41.0   | 34.0                | 36.0   | 28.0              | 28.0  | 62.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 2.8                  | 2.0   | 27.0                  | 35.0   |
| 7        | 32.0                 | 34.0   | 40.0                 | 42.0   | 38.0                | 32.0   | 32.0              | 30.0  | 61.0                  | 85.0   | -                         | -     | 0.0                     | 0.3   | SW                      | SW    | -             | -     | 4.6                  | 2.4   | 30.0                  | 37.0   |
| 8        | 31.0                 | 36.0   | 40.0                 | 43.0   | 39.0                | 34.0   | 28.0              | 33.0  | 62.0                  | 93.0   | -                         | -     | 0.1                     | 0.2   | SW                      | SW    | -             | -     | 3.5                  | 2.8   | 31.0                  | 36.0   |
| 9        | 30.0                 | 35.0   | 42.0                 | 44.0   | 34.0                | 32.0   | 29.0              | 24.0  | 62.0                  | 49.0   | -                         | -     | 0.1                     | 0.3   | SW                      | SW    | -             | -     | 3.2                  | 3.9   | 31.0                  | 35.0   |
| 10       | 27.0                 | 34.0   | 35.0                 | 42.0   | 31.0                | 36.0   | 25.0              | 27.0  | 60.0                  | 48.0   | -                         | -     | 0.0                     | 0.2   | SW                      | SW    | -             | -     | 3.0                  | 3.6   | 28.0                  | 36.0   |
| 11       | 30.0                 | 33.0   | 39.0                 | 43.0   | 33.0                | 35.0   | 27.0              | 26.0  | 62.0                  | 47.0   | -                         | -     | -                       | 0.0   | SW                      | SE    | -             | -     | 2.2                  | 3.0   | 31.0                  | 33.0   |
| 12       | 31.0                 | 31.0   | 40.0                 | 42.0   | 29.0                | 36.0   | 24.0              | 27.0  | 64.0                  | 48.0   | -                         | -     | 0.1                     | 0.0   | E                       | SW    | -             | -     | 2.5                  | 3.6   | 30.0                  | 36.0   |
| 13       | 30.0                 | 34.0   | 39.0                 | 40.0   | 31.0                | 35.0   | 26.0              | 26.0  | 66.0                  | 47.0   | -                         | -     | 0.1                     | 0.1   | SW                      | SW    | -             | -     | 3.5                  | 3.9   | 29.0                  | 35.0   |
| 14       | 29.0                 | 32.0   | 38.0                 | 39.0   | 29.0                | 34.0   | 24.0              | 26.0  | 64.0                  | 51.0   | -                         | -     | 0.0                     | -     | SW                      | NW    | -             | -     | 3.3                  | 2.8   | 28.0                  | 36.0   |
| 15       | 23.0                 | 28.0   | 37.0                 | 37.0   | 27.0                | 33.0   | 24.0              | 28.0  | 77.0                  | 68.0   | -                         | -     | -                       | 0.0   | W                       | SW    | 14.2          | -     | 5.8                  | 1.1   | 23.0                  | 36.0   |
| 16       | 29.0                 | 34.0   | 36.0                 | 40.0   | 31.0                | 35.0   | 27.0              | 26.0  | 73.0                  | 46.0   | -                         | -     | -                       | -     | SW                      | SW    | -             | -     | 2.0                  | 3.3   | 30.0                  | 36.0   |
| 17       | 29.0                 | 35.0   | 38.0                 | 41.0   | 32.0                | 37.0   | 26.0              | 29.0  | 61.0                  | 53.0   | -                         | -     | 0.0                     | 0.0   | SW                      | NW    | -             | -     | 2.4                  | 3.4   | 30.0                  | 39.0   |
| 18       | 31.0                 | 34.0   | 39.0                 | 44.0   | 31.0                | 35.0   | 26.0              | 27.0  | 66.0                  | 52.0   | -                         | -     | 0.0                     | 0.0   | W                       | SW    | 1.2           | -     | 1.0                  | 4.4   | 29.5                  | 37.0   |
| 19       | 30.0                 | 33.5   | 42.0                 | 43.5   | 31.0                | 35.0   | 27.0              | 27.0  | 73.0                  | 52.0   | -                         | -     | 0.1                     | 0.0   | SW                      | SW    | -             | -     | 3.0                  | 4.0   | 29.0                  | 38.0   |
| 20       | 31.0                 | 34.0   | 41.0                 | 40.0   | 30.0                | 35.0   | 27.0              | 27.0  | 78.0                  | 52.0   | -                         | -     | 0.0                     | 0.0   | SW                      | SW    | -             | -     | 4.2                  | 3.3   | 30.0                  | 36.0   |
| 21       | 25.0                 | 26.0   | 41.0                 | 35.0   | 22.0                | 30.0   | 20.0              | 25.0  | 82.0                  | 65.0   | -                         | -     | -                       | 0.0   | SW                      | W     | 3.8           | -     | 4.2                  | 1.0   | 25.0                  | 32.0   |
| 22       | 29.0                 | 36.0   | 34.0                 | 41.0   | 28.0                | 34.0   | 27.0              | 28.0  | 92.0                  | 62.0   | -                         | -     | 0.1                     | 0.0   | W                       | SW    | 0.4           | -     | 1.6                  | 3.4   | 29.0                  | 37.0   |
| 23       | 29.0                 | 32.0   | 37.0                 | 40.0   | 29.0                | 33.0   | 26.0              | 27.0  | 76.0                  | 62.0   | -                         | -     | 0.4                     | 0.2   | SW                      | SE    | -             | -     | 2.7                  | 3.1   | 29.0                  | 37.0   |
| 24       | 31.0                 | 35.0   | 37.0                 | 40.0   | 32.0                | 35.0   | 27.0              | 29.0  | 67.0                  | 63.0   | -                         | -     | 1.3                     | 2.6   | E                       | SW    | -             | -     | 2.9                  | 3.4   | 31.0                  | 38.0   |
| 25       | 30.0                 | 34.0   | 38.0                 | 42.0   | 31.0                | 36.0   | 28.0              | 28.0  | 79.0                  | 63.0   | -                         | -     | 1.6                     | 2.2   | SW                      | SE    | -             | -     | 3.3                  | 2.5   | 30.0                  | 38.0   |
| 26       | 32.0                 | 36.0   | 39.0                 | 42.0   | 33.0                | 34.0   | 28.0              | 25.0  | 68.0                  | 46.0   | -                         | -     | -                       | 4.4   | E                       | SE    | -             | -     | 2.3                  | 2.8   | 30.0                  | 38.0   |
| 27       | 30.0                 | 34.0   | 37.0                 | 41.0   | 31.0                | 36.0   | 27.0              | 29.0  | 73.0                  | 58.0   | -                         | -     | 0.9                     | 1.9   | NE                      | N     | -             | -     | 2.8                  | 2.9   | 31.0                  | 38.0   |
| 28       | 31.0                 | 35.0   | 40.0                 | 43.0   | 32.0                | 38.0   | 28.0              | 28.0  | 73.0                  | 45.0   | -                         | -     | 0.6                     | 2.0   | W                       | NW    | -             | -     | 2.8                  | 2.9   | 32.0                  | 39.0   |
| 29       | 32.0                 | 36.0   | 40.0                 | 42.0   | 38.0                | 37.0   | 28.0              | 27.0  | 45.0                  | 44.0   | -                         | -     | 1.3                     | 3.6   | SW                      | SW    | -             | -     | 3.4                  | 4.3   | 31.0                  | 38.0   |
| 30       | 32.0                 | 36.0   | 41.0                 | 43.0   | 30.0                | 38.0   | 29.0              | 29.0  | 93.0                  | 50.0   | -                         | -     | 1.5                     | 2.5   | SE                      | SW    | -             | -     | 3.6                  | 4.7   | 30.0                  | 39.0   |
| 31       | 26.0                 |        | 41.0                 |        | 23.0                |        | 23.0              |       | 96.0                  |        | -                         |       | 0.4                     |       | NW                      |       | 10.6          |       | 3.8                  |       | 27.5                  |        |
| Total    | 906.0                | 1026.5 | 1188.0               | 1270.0 | 949.0               | 1068.0 | 811.0             | 843.0 | 2192.0                | 1749.0 | -                         | -     | 9.1                     | 21.4  |                         |       | 37.4          | -     | 92.8                 | 91.6  | 894.0                 | 1107.0 |
| Average  | 29.2                 | 33.1   | 38.3                 | 41.0   | 30.6                | 34.5   | 26.2              | 27.2  | 70.7                  | 56.4   | -                         | -     | 0.3                     | 0.7   |                         |       |               |       |                      |       | 28.8                  | 35.7   |
|          | 31.2                 |        | 39.6                 |        | 32.5                |        | 26.7              |       | 63.6                  |        | 0.0                       |       | 0.5                     |       |                         |       | 37.4          |       | 184.4                |       | 32.3                  |        |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Jun-17  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |        |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|--------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |        | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30  | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPOPM   |                      | 33.0  |                      | 43.0   |                     | 38.0   |                   | 27.0  |                       | 40.0   |                           | 14.0   |                         | 4.4   |                         | SW    |               | -     |                      | 5.4   |                       | 37.0   |
| 1       | 29.0                 | 35.0  | 40.0                 | 43.0   | 36.0                | 38.0   | 28.0              | 27.0  | 53.0                  | 40.0   | ..                        | ..     | 3.6                     | 8.5   | SE                      | SW    | -             | -     | 3.7                  | 5.7   | 31.0                  | 36.0   |
| 2       | 28.0                 | 33.0  | 38.0                 | 41.0   | 34.0                | 38.0   | 29.0              | 28.0  | 68.0                  | 45.0   | ..                        | ..     | 4.3                     | 7.3   | NE                      | NE    | 2.6           | -     | 3.4                  | 5.5   | 30.0                  | 36.0   |
| 3       | 29.0                 | 34.0  | 38.0                 | 43.0   | 34.0                | 38.0   | 27.0              | 27.0  | 56.0                  | 40.0   | ..                        | ..     | 4.4                     | 8.6   | NE                      | NE    | -             | -     | 3.2                  | 5.7   | 30.0                  | 36.0   |
| 4       | 29.0                 | 36.0  | 38.0                 | 43.0   | 36.0                | 38.0   | 28.0              | 28.0  | 53.0                  | 45.0   | ..                        | ..     | 4.7                     | 9.7   | NE                      | NE    | -             | -     | 3.6                  | 5.8   | 31.0                  | 36.0   |
| 5       | 29.0                 | 35.0  | 39.0                 | 43.0   | 38.0                | 38.0   | 29.0              | 27.0  | 50.0                  | 40.0   | ..                        | ..     | 7.1                     | 10.7  | NE                      | NE    | -             | -     | 3.9                  | 6.0   | 31.0                  | 36.0   |
| 6       | 27.0                 | 34.0  | 39.0                 | 43.0   | 38.0                | 36.0   | 29.0              | 26.0  | 50.0                  | 43.0   | ..                        | ..     | 6.5                     | 5.5   | NE                      | NE    | 2.0           | -     | 4.2                  | 5.5   | 30.0                  | 35.0   |
| 7       | 26.0                 | 32.0  | 35.0                 | 40.0   | 32.0                | 36.0   | 26.0              | 26.0  | 61.0                  | 43.0   | ..                        | ..     | 6.6                     | 5.4   | SW                      | SW    | 2.4           | -     | 4.5                  | 5.0   | 29.0                  | 35.0   |
| 8       | 27.0                 | 31.0  | 35.0                 | 40.0   | 32.0                | 38.0   | 26.0              | 27.0  | 61.0                  | 40.0   | ..                        | ..     | 5.6                     | 3.5   | NE                      | NE    | -             | -     | 3.5                  | 4.5   | 29.0                  | 36.0   |
| 9       | 27.0                 | 32.0  | 34.0                 | 38.0   | 34.0                | 36.0   | 27.0              | 26.0  | 56.0                  | 43.0   | ..                        | ..     | 2.3                     | 4.5   | NE                      | SE    | -             | -     | 3.3                  | 4.0   | 30.0                  | 35.0   |
| 10      | 28.0                 | 32.0  | 35.0                 | 38.0   | 36.0                | 36.0   | 28.0              | 26.0  | 53.0                  | 43.0   | ..                        | ..     | 0.8                     | 6.2   | SE                      | SE    | -             | -     | 3.2                  | 4.0   | 30.0                  | 35.0   |
| 11      | 28.0                 | 31.0  | 34.0                 | 40.0   | 32.0                | 34.0   | 26.0              | 26.0  | 61.0                  | 51.0   | ..                        | ..     | 6.8                     | 9.3   | NE                      | NE    | -             | -     | 3.3                  | 3.5   | 30.0                  | 34.0   |
| 12      | 27.0                 | 32.0  | 34.0                 | 38.0   | 32.0                | 36.0   | 26.0              | 28.0  | 61.0                  | 53.0   | ..                        | ..     | 4.2                     | 8.1   | NE                      | NE    | -             | -     | 3.0                  | 3.6   | 29.0                  | 34.0   |
| 13      | 27.0                 | 31.0  | 35.0                 | 38.0   | 32.0                | 36.0   | 26.0              | 28.0  | 61.0                  | 53.0   | ..                        | ..     | 7.2                     | 7.3   | NE                      | SW    | -             | -     | 3.3                  | 3.4   | 29.0                  | 34.0   |
| 14      | 28.0                 | 31.0  | 35.0                 | 39.0   | 32.0                | 38.0   | 26.0              | 28.0  | 61.0                  | 45.0   | ..                        | ..     | 6.4                     | 6.3   | SW                      | NE    | -             | -     | 3.6                  | 3.7   | 30.0                  | 35.0   |
| 15      | 29.0                 | 25.0  | 36.0                 | 39.0   | 36.0                | 27.0   | 29.0              | 25.0  | 58.0                  | 84.0   | ..                        | ..     | 6.2                     | 9.3   | NE                      | SW    | -             | 21.8  | 3.8                  | 3.8   | 31.0                  | 29.0   |
| 16      | 25.0                 | 29.0  | 36.0                 | 38.0   | 28.0                | 32.0   | 24.0              | 27.0  | 70.0                  | 67.0   | ..                        | ..     | 4.5                     | 9.3   | NE                      | NE    | 7.0           | -     | 1.0                  | 3.6   | 27.0                  | 33.0   |
| 17      | 28.0                 | 30.0  | 35.0                 | 39.0   | 32.0                | 36.0   | 26.0              | 28.0  | 61.0                  | 53.0   | ..                        | ..     | 3.7                     | 7.5   | NE                      | NE    | -             | -     | 2.5                  | 4.0   | 28.0                  | 34.0   |
| 18      | 26.0                 | 31.0  | 37.0                 | 41.0   | 34.0                | 38.0   | 27.0              | 28.0  | 56.0                  | 45.0   | ..                        | ..     | 3.6                     | 6.8   | NE                      | NE    | -             | -     | 2.7                  | 4.2   | 29.0                  | 36.0   |
| 19      | 24.0                 | 24.0  | 38.0                 | 38.0   | 26.0                | 32.0   | 24.0              | 27.0  | 84.0                  | 67.0   | ..                        | ..     | 7.0                     | 6.7   | NE                      | NE    | 59.0          | -     | 1.5                  | 2.1   | 25.0                  | 33.0   |
| 20      | 27.0                 | 30.0  | 35.0                 | 35.0   | 32.0                | 32.0   | 28.0              | 27.0  | 73.0                  | 67.0   | ..                        | ..     | 1.8                     | 6.9   | NE                      | NE    | 10.0          | -     | 2.0                  | 1.9   | 27.0                  | 31.0   |
| 21      | 25.0                 | 28.0  | 32.0                 | 33.0   | 30.0                | 30.0   | 26.0              | 26.0  | 72.0                  | 72.0   | ..                        | ..     | 5.6                     | 8.4   | NE                      | SW    | 28.8          | 0.8   | 1.9                  | 4.2   | 26.0                  | 33.0   |
| 22      | 23.0                 | 26.0  | 34.0                 | 34.0   | 26.0                | 32.0   | 24.0              | 28.0  | 84.0                  | 73.0   | ..                        | ..     | 5.1                     | 5.8   | NE                      | NE    | 30.8          | -     | 2.4                  | 2.0   | 26.0                  | 32.0   |
| 23      | 25.0                 | 27.0  | 33.0                 | 34.0   | 28.0                | 30.0   | 26.0              | 28.0  | 85.0                  | 85.0   | ..                        | ..     | 3.4                     | 7.1   | NE                      | NE    | 7.2           | -     | 1.2                  | 2.5   | 27.0                  | 34.0   |
| 24      | 25.0                 | 30.0  | 32.0                 | 34.0   | 30.0                | 32.0   | 27.0              | 28.0  | 84.0                  | 73.0   | ..                        | ..     | 1.2                     | 4.9   | NE                      | SW    | -             | -     | 2.0                  | 2.0   | 29.0                  | 34.0   |
| 25      | 24.0                 | 25.0  | 27.0                 | 33.0   | 26.0                | 27.0   | 24.0              | 26.0  | 84.0                  | 52.0   | ..                        | ..     | 3.0                     | 1.4   | NE                      | SW    | 77.0          | 1.8   | 1.3                  | 2.8   | 26.0                  | 32.0   |
| 26      | 24.0                 | 25.0  | 28.0                 | 28.0   | 28.0                | 28.0   | 26.0              | 26.0  | 85.0                  | 85.0   | ..                        | ..     | 2.7                     | 2.2   | NE                      | SW    | -             | 49.4  | 0.8                  | 2.2   | 26.0                  | 27.0   |
| 27      | 25.0                 | 27.0  | 28.0                 | 30.0   | 27.0                | 30.0   | 26.0              | 26.0  | 92.0                  | 72.0   | ..                        | ..     | 1.1                     | 5.5   | NE                      | SW    | -             | -     | 1.1                  | 2.3   | 26.0                  | 29.0   |
| 28      | 26.0                 | 27.0  | 30.0                 | 29.0   | 28.0                | 28.0   | 26.0              | 26.0  | 85.0                  | 85.0   | ..                        | ..     | 3.3                     | 2.6   | NE                      | NE    | 3.0           | 3.8   | 0.8                  | 1.3   | 27.0                  | 28.0   |
| 29      | 26.0                 | 27.0  | 29.0                 | 31.0   | 27.0                | 32.0   | 26.0              | 26.0  | 92.0                  | 61.0   | ..                        | ..     | 3.5                     | 7.1   | NE                      | SW    | 1.6           | -     | 2.4                  | 2.6   | 26.0                  | 32.0   |
| 30      | 27.0                 |       | 31.0                 |        | 30.0                |        | 27.0              |       | 78.0                  |        | 2.0                       |        | 3.0                     |       | NE                      |       | -             |       | 1.3                  |       | 27.0                  |        |
| Total   | 798.0                | 903.0 | 1030.0               | 1126.0 | 946.0               | 1020.0 | 797.0             | 807.0 | 2048.0                | 1705.0 | 2.0 *                     | 14.0 * | 129.0                   | 196.9 |                         |       | 231.4         | 77.6  | 78.4                 | 112.8 | 852.0                 | 1007.0 |
| Average | 26.6                 | 30.1  | 34.3                 | 37.5   | 31.5                | 34.0   | 26.6              | 26.9  | 68.3                  | 56.8   | 2.0 *                     | 14.0 * | 4.3                     | 6.6   |                         |       |               |       |                      |       | 28.4                  | 33.6   |
|         | 28.4                 |       | 35.9                 |        | 32.8                |        | 26.7              |       | 62.6                  |        | 8.0 *                     |        | 5.4                     |       |                         |       | 309.0         |       | 191.2                |       | 31.0                  |        |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

- 010 .. N.A.

Jul-17

|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LDoPM   |                      | 28.0  |                      | 30.0  |                     | 30.0  |                   | 27.0  |                       | 78.0   |                           | 6.0   |                         | 8.1   |                         | NE    |               | 54.0  |                      | 2.2   |                       | 31.0  |
| 1       | 26.0                 | 27.0  | 30.0                 | 30.0  | 27.0                | 29.0  | 26.0              | 27.0  | 92.0                  | 85.0   | 4.0                       | 6.0   | 5.5                     | 7.3   | NE                      | SW    | -             | -     | 2.0                  | 1.8   | 28.0                  | 31.0  |
| 2       | 25.0                 | 25.0  | 29.0                 | 29.0  | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | 4.0                       | 6.0   | 3.8                     | 8.2   | NE                      | SW    | 8.2           | -     | 2.0                  | 1.3   | 27.0                  | 29.0  |
| 3       | 25.0                 | 25.0  | 29.0                 | 29.0  | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | 8.0                       | 4.0   | 5.7                     | 9.4   | SW                      | NE    | -             | -     | 2.1                  | 1.3   | 27.0                  | 29.0  |
| 4       | 26.0                 | 25.0  | 29.0                 | 29.0  | 29.0                | 28.0  | 26.0              | 26.0  | 78.0                  | 85.0   | 8.0                       | 2.0   | 7.8                     | 7.7   | SW                      | SW    | -             | -     | 2.2                  | 1.9   | 27.0                  | 30.0  |
| 5       | 26.0                 | 27.0  | 30.0                 | 31.0  | 29.0                | 30.0  | 26.0              | 27.0  | 78.0                  | 78.0   | 6.0                       | 8.0   | 7.7                     | 8.6   | SW                      | SE    | -             | -     | 2.3                  | 2.0   | 27.0                  | 31.0  |
| 6       | 25.0                 | 28.0  | 29.0                 | 31.0  | 29.0                | 32.0  | 27.0              | 28.0  | 85.0                  | 73.0   | 6.0                       | 6.0   | 2.8                     | 3.8   | SW                      | SW    | 2.8           | -     | 2.0                  | 2.6   | 28.0                  | 33.0  |
| 7       | 27.0                 | 29.0  | 33.0                 | 32.0  | 32.0                | 32.0  | 28.0              | 28.0  | 73.0                  | 73.0   | 6.0                       | 4.0   | 3.9                     | 7.1   | SW                      | SW    | -             | -     | 2.5                  | 2.7   | 30.0                  | 33.0  |
| 8       | 26.0                 | 29.0  | 33.0                 | 33.0  | 30.0                | 34.0  | 28.0              | 29.0  | 85.0                  | 68.0   | 4.0                       | 4.0   | 1.8                     | 5.8   | SW                      | NE    | 2.4           | -     | 3.0                  | 2.6   | 29.0                  | 32.0  |
| 9       | 27.0                 | 30.0  | 35.0                 | 36.0  | 30.0                | 32.0  | 28.0              | 28.0  | 85.0                  | 73.0   | -                         | 6.0   | 3.3                     | 5.2   | SW                      | NE    | -             | 27.6  | 2.1                  | 2.5   | 30.0                  | 32.0  |
| 10      | 26.0                 | 25.0  | 33.0                 | 33.0  | 28.0                | 25.0  | 26.0              | 24.0  | 85.0                  | 92.0   | 4.0                       | 4.0   | 4.7                     | 5.6   | SW                      | NE    | 13.2          | 5.2   | 1.4                  | 2.4   | 28.0                  | 29.0  |
| 11      | 25.0                 | 26.0  | 34.0                 | 29.0  | 27.0                | 25.0  | 26.0              | 24.0  | 92.0                  | 92.0   | 2.0                       | 6.0   | 4.7                     | 5.7   | SW                      | NE    | -             | 13.2  | 1.2                  | 1.2   | 27.0                  | 28.0  |
| 12      | 25.0                 | 26.0  | 28.0                 | 31.0  | 27.0                | 27.0  | 26.5              | 25.0  | 92.0                  | 84.0   | 4.0                       | 4.0   | 3.2                     | 4.7   | NE                      | SW    | 6.8           | -     | 1.2                  | 1.0   | 28.0                  | 28.0  |
| 13      | 26.0                 | 26.0  | 28.0                 | 32.0  | 27.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 85.0   | 2.0                       | -     | 1.3                     | 5.3   | NE                      | SW    | -             | 33.6  | 1.0                  | 1.6   | 27.0                  | 32.0  |
| 14      | 27.0                 | 25.0  | 29.0                 | 29.0  | 28.0                | 26.0  | 26.0              | 25.0  | 85.0                  | 92.0   | 6.0                       | -     | 0.6                     | 5.9   | SW                      | SW    | 1.6           | 22.2  | 2.4                  | 1.5   | 27.0                  | 29.0  |
| 15      | 25.0                 | 25.0  | 28.0                 | 30.0  | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | 6.0                       | 2.0   | 0.5                     | 4.5   | SW                      | SW    | 1.2           | 8.0   | 2.8                  | 1.6   | 28.0                  | 30.0  |
| 16      | 26.0                 | 25.0  | 28.0                 | 30.0  | 26.0                | 25.0  | 25.0              | 24.0  | 92.0                  | 92.0   | -                         | 4.0   | 2.8                     | 3.8   | SW                      | NE    | 1.2           | 7.0   | 2.1                  | 0.8   | 27.0                  | 28.0  |
| 17      | 25.0                 | 26.0  | 28.0                 | 31.0  | 26.0                | 28.0  | 25.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 1.2                     | 2.5   | SW                      | NE    | 24.0          | -     | 0.7                  | 2.2   | 25.5                  | 30.0  |
| 18      | 26.0                 | 27.0  | 29.0                 | 30.0  | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | 4.0                       | 2.0   | 1.7                     | 10.4  | NE                      | SW    | 2.8           | 28.8  | 2.0                  | 1.2   | 26.0                  | 30.0  |
| 19      | 26.0                 | 26.0  | 29.0                 | 28.0  | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | 4.0   | 3.4                     | 4.3   | NE                      | SW    | 10.8          | -     | 1.1                  | 0.8   | 27.0                  | 28.0  |
| 20      | 26.0                 | 28.0  | 28.0                 | 30.0  | 28.0                | 28.0  | 26.0              | 26.0  | 85.0                  | 85.0   | 6.0                       | 2.0   | 4.9                     | 9.0   | SW                      | NE    | -             | -     | 1.3                  | 2.4   | 27.0                  | 31.0  |
| 21      | 27.0                 | 29.0  | 31.0                 | 32.0  | 30.0                | 30.0  | 28.0              | 28.0  | 85.0                  | 85.0   | 8.0                       | -     | 2.7                     | 8.1   | NE                      | SW    | -             | -     | 1.2                  | 2.6   | 28.0                  | 31.0  |
| 22      | 28.0                 | 28.0  | 29.0                 | 29.0  | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 6.0                       | 2.0   | 2.1                     | 5.1   | SW                      | NE    | -             | 1.0   | 1.9                  | 2.8   | 29.0                  | 32.0  |
| 23      | 25.0                 | 25.0  | 29.0                 | 30.0  | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | -                         | -     | 2.9                     | 2.8   | SW                      | SW    | 16.8          | -     | 1.8                  | 1.8   | 27.5                  | 30.0  |
| 24      | 25.0                 | 27.0  | 29.0                 | 30.0  | 27.0                | 30.0  | 25.0              | 28.0  | 84.0                  | 85.0   | 2.0                       | 2.0   | 4.1                     | 4.3   | SW                      | NE    | 1.2           | -     | 1.5                  | 2.0   | 27.0                  | 30.0  |
| 25      | 26.0                 | 27.0  | 30.0                 | 31.0  | 27.0                | 30.0  | 26.0              | 26.0  | 92.0                  | 72.0   | 6.0                       | -     | 4.4                     | 7.5   | SW                      | NE    | -             | -     | 1.3                  | 1.9   | 27.0                  | 31.0  |
| 26      | 25.0                 | 25.0  | 29.0                 | 31.0  | 26.0                | 28.0  | 24.0              | 26.0  | 84.0                  | 85.0   | 6.0                       | -     | 5.0                     | 6.7   | SW                      | NE    | 3.3           | -     | 1.0                  | 1.7   | 25.0                  | 30.0  |
| 27      | 25.0                 | 26.0  | 29.0                 | 33.0  | 26.0                | 32.0  | 25.0              | 27.0  | 92.0                  | 67.0   | 2.0                       | 4.0   | 3.3                     | 6.7   | SW                      | SW    | 8.0           | -     | 1.0                  | 2.7   | 25.0                  | 35.0  |
| 28      | 26.0                 | 29.0  | 30.0                 | 32.0  | 28.0                | 30.0  | 26.0              | 26.0  | 85.0                  | 72.0   | 4.0                       | 2.0   | 2.0                     | 6.5   | SW                      | SW    | 2.8           | 6.8   | 1.9                  | 2.2   | 26.5                  | 35.0  |
| 29      | 27.0                 | 27.0  | 33.0                 | 32.0  | 34.0                | 29.0  | 29.0              | 27.0  | 62.0                  | 82.0   | 2.0                       | 4.0   | 1.2                     | 3.3   | SW                      | NE    | -             | -     | 1.7                  | 2.2   | 29.0                  | 32.0  |
| 30      | 27.0                 | 28.0  | 32.0                 | 34.0  | 32.0                | 30.0  | 29.0              | 26.0  | 79.0                  | 72.0   | 4.0                       | 8.0   | 2.0                     | 3.3   | SW                      | SW    | -             | -     | 1.5                  | 2.2   | 29.0                  | 34.0  |
| 31      | 26.0                 |       | 34.0                 |       | 30.0                |       | 27.0              |       | 78.0                  |        | 2.0                       |       | 2.2                     |       | SW                      |       | -             |       | 1.6                  |       | 29.0                  |       |
| Total   | 803.0                | 829.0 | 934.0                | 957.0 | 872.0               | 896.0 | 809.5             | 817.0 | 2623.0                | 2527.0 | 122.0                     | 102.0 | 102.8                   | 187.0 |                         |       | 107.1         | 207.4 | 53.8                 | 59.7  | 852.5                 | 954.0 |
| Average | 25.9                 | 26.7  | 30.1                 | 30.9  | 28.1                | 28.9  | 26.1              | 26.4  | 84.6                  | 81.5   | 3.9                       | 3.3   | 3.3                     | 6.0   |                         |       |               |       |                      |       | 27.5                  | 30.8  |
|         | 26.3                 |       | 30.5                 |       | 28.5                |       | 26.2              |       | 83.1                  |        | 3.6                       |       | 4.7                     |       |                         |       | 314.5         |       | 113.5                |       | 29.1                  |       |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Aug-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPoPM   |                      | 26.0  |                      | 32.0   |                     | 28.0  |                   | 25.0  |                       | 77.0   |                           | 4.0   |                         | 5.8   |                         | NE    |               | 2.2   |                      | 2.0   |                       | 30.0   |
| 1       | 26.0                 | 25.0  | 32.0                 | 31.0   | 30.0                | 27.0  | 27.0              | 26.0  | 78.0                  | 92.0   | 4.0                       | 2.0   | 2.2                     | 6.2   | SW                      | NE    | -             | 32.8  | 1.2                  | 1.4   | 29.0                  | 28.0   |
| 2       | 25.0                 | 27.0  | 32.0                 | 34.0   | 30.0                | 26.0  | 27.0              | 25.0  | 78.0                  | 92.0   | 2.0                       | 4.0   | 1.5                     | 6.5   | NE                      | SW    | -             | -     | 1.4                  | 2.5   | 28.0                  | 32.0   |
| 3       | 26.0                 | 25.0  | 34.0                 | 36.0   | 32.0                | 30.0  | 28.0              | 28.0  | 86.0                  | 85.0   | 4.0                       | 2.0   | 3.6                     | 5.5   | SW                      | NE    | -             | 28.0  | 1.3                  | 2.0   | 29.0                  | 31.0   |
| 4       | 25.0                 | 26.0  | 35.0                 | 34.0   | 29.0                | 30.0  | 27.0              | 27.0  | 85.0                  | 78.0   | 2.0                       | 4.0   | 2.8                     | 7.2   | NE                      | SW    | -             | -     | 2.0                  | 1.4   | 30.0                  | 34.0   |
| 5       | 26.0                 | 24.0  | 32.0                 | 31.0   | 28.0                | 27.0  | 26.0              | 26.0  | 85.0                  | 92.0   | 4.0                       | 2.0   | 2.0                     | 5.4   | SW                      | NE    | 1.0           | -     | 2.0                  | 1.4   | 28.0                  | 31.0   |
| 6       | 25.0                 | 25.0  | 28.0                 | 32.0   | 26.0                | 29.0  | 25.0              | 27.0  | 92.0                  | 85.0   | -                         | 4.0   | 3.1                     | 4.4   | SW                      | NE    | 61.4          | 7.2   | 1.6                  | 1.1   | 26.0                  | 33.0   |
| 7       | 26.0                 | 26.0  | 27.0                 | 33.0   | 30.0                | 29.0  | 27.0              | 28.0  | 78.0                  | 92.0   | 2.0                       | 4.0   | 2.7                     | 4.6   | NE                      | SW    | -             | -     | 1.4                  | 1.6   | 29.0                  | 32.0   |
| 8       | 27.0                 | 28.0  | 32.0                 | 32.0   | 28.0                | 30.0  | 27.0              | 27.0  | 92.0                  | 78.0   | 4.0                       | 4.0   | 0.1                     | 3.6   | SW                      | SW    | -             | -     | 1.0                  | 1.7   | 28.0                  | 32.0   |
| 9       | 26.0                 | 27.0  | 31.0                 | 33.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | 4.0                       | 6.0   | 2.3                     | 7.9   | SW                      | SW    | -             | -     | 1.1                  | 1.8   | 27.0                  | 33.0   |
| 10      | 26.0                 | 26.0  | 31.0                 | 32.0   | 28.0                | 26.0  | 26.0              | 25.0  | 85.0                  | 92.0   | 4.0                       | 2.0   | 5.1                     | 6.6   | SW                      | NE    | -             | 2.4   | 1.5                  | 1.2   | 27.0                  | 31.0   |
| 11      | 27.0                 | 25.0  | 29.0                 | 33.0   | 30.0                | 29.0  | 27.0              | 27.0  | 78.0                  | 85.0   | 2.0                       | 4.0   | 1.1                     | 6.8   | NE                      | SW    | -             | -     | 1.1                  | 1.7   | 28.0                  | 33.0   |
| 12      | 26.0                 | 25.0  | 31.0                 | 32.0   | 29.0                | 28.0  | 28.0              | 26.0  | 92.0                  | 85.0   | 4.0                       | 2.0   | 4.5                     | 6.6   | SW                      | NE    | -             | 18.6  | 2.3                  | 1.7   | 29.0                  | 30.0   |
| 13      | 25.0                 | 26.0  | 31.0                 | 33.0   | 28.0                | 29.0  | 27.0              | 27.0  | 92.0                  | 85.0   | 2.0                       | 4.0   | 2.2                     | 5.1   | NE                      | SW    | 13.8          | -     | 1.4                  | 1.5   | 28.0                  | 34.0   |
| 14      | 26.0                 | 27.0  | 29.0                 | 31.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 4.0                       | 4.0   | 4.8                     | 5.6   | SW                      | NE    | -             | -     | 1.6                  | 1.8   | 27.0                  | 33.0   |
| 15      | 27.0                 | 28.0  | 31.0                 | 32.0   | 30.0                | 29.0  | 27.0              | 27.0  | 78.0                  | 85.0   | 2.0                       | 8.0   | 0.9                     | 3.9   | NE                      | SW    | 14.6          | 1.2   | 1.0                  | 1.7   | 28.0                  | 32.0   |
| 16      | 26.0                 | 27.0  | 29.0                 | 33.0   | 29.0                | 27.0  | 26.0              | 26.0  | 78.0                  | 92.0   | 2.0                       | -     | 2.1                     | 5.4   | SW                      | SW    | -             | 5.0   | 1.8                  | 1.5   | 28.0                  | 31.0   |
| 17      | 24.0                 | 25.0  | 27.0                 | 31.0   | 26.0                | 28.0  | 25.0              | 27.0  | 92.0                  | 92.0   | -                         | 2.0   | 3.3                     | 2.9   | SW                      | SW    | 23.8          | 1.2   | 1.7                  | 2.0   | 25.0                  | 32.0   |
| 18      | 25.0                 | 26.0  | 29.0                 | 32.0   | 27.0                | 29.0  | 26.0              | 26.0  | 92.0                  | 78.0   | 2.0                       | 4.0   | 1.5                     | 9.6   | NE                      | SW    | 8.0           | 0.6   | 1.3                  | 1.8   | 26.0                  | 33.0   |
| 19      | 26.0                 | 27.0  | 31.0                 | 33.0   | 28.0                | 28.0  | 27.0              | 26.0  | 92.0                  | 85.0   | 4.0                       | 2.0   | 3.0                     | 6.9   | SW                      | NE    | 0.4           | 0.6   | 1.9                  | 1.6   | 27.0                  | 32.0   |
| 20      | 27.0                 | 26.0  | 32.0                 | 32.0   | 30.0                | 30.0  | 27.0              | 28.0  | 78.0                  | 85.0   | 4.0                       | 2.0   | 4.0                     | 3.2   | NE                      | SW    | -             | 13.2  | 1.4                  | 1.8   | 29.0                  | 32.0   |
| 21      | 26.0                 | 27.0  | 33.0                 | 33.0   | 34.0                | 30.0  | 30.0              | 28.0  | 74.0                  | 85.0   | 2.0                       | 2.0   | 0.4                     | 2.2   | SW                      | NE    | 1.4           | -     | 1.6                  | 2.0   | 30.0                  | 33.0   |
| 22      | 27.0                 | 27.0  | 32.0                 | 33.0   | 32.0                | 30.0  | 28.0              | 27.0  | 86.0                  | 78.0   | 2.0                       | -     | 0.2                     | 2.4   | NE                      | NE    | -             | -     | 1.2                  | 2.0   | 29.0                  | 34.0   |
| 23      | 25.0                 | 26.0  | 31.0                 | 34.0   | 30.0                | 29.0  | 27.0              | 26.0  | 78.0                  | 78.0   | 2.0                       | 2.0   | 0.7                     | 3.3   | NE                      | SW    | -             | -     | 1.7                  | 2.0   | 28.0                  | 31.0   |
| 24      | 26.0                 | 28.0  | 33.0                 | 35.0   | 30.0                | 30.0  | 27.0              | 27.0  | 78.0                  | 78.0   | 4.0                       | 2.0   | 1.2                     | 3.4   | NE                      | NE    | -             | -     | 2.0                  | 2.0   | 29.0                  | 35.0   |
| 25      | 26.0                 | 26.0  | 30.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 4.0                       | -     | 0.4                     | 2.1   | SW                      | SW    | 3.6           | -     | 1.6                  | 2.2   | 29.0                  | 36.0   |
| 26      | 26.0                 | 28.0  | 31.0                 | 34.0   | 28.0                | 29.0  | 26.0              | 27.0  | 85.0                  | 85.0   | 2.0                       | -     | 0.8                     | 1.8   | SW                      | SW    | -             | 20.8  | 1.8                  | 2.4   | 28.0                  | 33.0   |
| 27      | 27.0                 | 26.0  | 32.0                 | 33.0   | 30.0                | 29.0  | 27.0              | 26.0  | 78.0                  | 78.0   | 2.0                       | 4.0   | 0.4                     | 2.8   | NE                      | SW    | 7.4           | -     | 1.4                  | 1.8   | 30.0                  | 32.0   |
| 28      | 26.0                 | 27.0  | 30.0                 | 30.0   | 28.0                | 29.0  | 26.0              | 26.0  | 85.0                  | 78.0   | 2.0                       | 2.0   | 1.8                     | 1.2   | SW                      | SW    | -             | 10.2  | 1.4                  | 1.5   | 28.0                  | 30.0   |
| 29      | 25.0                 | 25.0  | 31.0                 | 32.0   | 29.0                | 30.0  | 26.0              | 28.0  | 78.0                  | 85.0   | 4.0                       | -     | 0.5                     | 2.3   | NE                      | SW    | 0.8           | -     | 1.4                  | 1.2   | 27.0                  | 33.0   |
| 30      | 26.0                 | 27.0  | 32.0                 | 33.0   | 32.0                | 30.0  | 28.0              | 28.0  | 86.0                  | 85.0   | -                         | 2.0   | 0.2                     | 4.3   | SW                      | NE    | -             | 1.6   | 1.5                  | 2.3   | 30.0                  | 34.0   |
| 31      | 27.0                 |       | 33.0                 |        | 34.0                |       | 30.0              |       | 74.0                  |        | 2.0                       |       | 0.4                     |       | NE                      |       | -             |       | 1.5                  |       | 30.0                  |        |
| Total   | 804.0                | 814.0 | 961.0                | 1013.0 | 907.0               | 894.0 | 832.0             | 828.0 | 2594.0                | 2606.0 | 82.0                      | 84.0  | 59.6                    | 145.5 |                         |       | 136.2         | 145.6 | 47.1                 | 54.6  | 874.0                 | 1000.0 |
| Average | 25.9                 | 26.3  | 31.0                 | 32.7   | 29.3                | 28.8  | 26.8              | 26.7  | 83.7                  | 84.1   | 2.6                       | 2.7   | 1.9                     | 4.7   |                         |       |               |       |                      |       | 28.2                  | 32.3   |
|         | 26.1                 |       | 31.8                 |        | 29.0                |       | 26.8              |       | 83.9                  |        | 2.7                       |       | 3.3                     |       |                         |       | 281.8         |       | 101.7                |       | 30.2                  |        |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Sep-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 28.0  |                      | 34.0   |                     | 35.0  |                   | 29.0  |                       | 85.0   |                           | 2.0   |                         | 3.8   |                         | SW    |               | 1.6   |                      | 2.3   |                       | 34.0  |
| 1       | 26.0                 | 25.0  | 29.0                 | 34.0   | 30.0                | 25.0  | 27.0              | 24.0  | 78.0                  | 92.0   | 6.0                       | 4.0   | 2.3                     | 4.6   | NE                      | SW    | -             | 17.0  | 1.3                  | 1.3   | 29.0                  | 31.0  |
| 2       | 25.0                 | 26.0  | 28.0                 | 31.0   | 30.0                | 27.0  | 28.0              | 26.0  | 85.0                  | 92.0   | 4.0                       | 4.0   | 1.5                     | 4.3   | NE                      | SW    | 20.6          | 9.8   | 1.8                  | 1.5   | 28.0                  | 29.0  |
| 3       | 25.0                 | 26.0  | 29.0                 | 34.0   | 30.0                | 29.0  | 28.0              | 26.0  | 85.0                  | 78.0   | 2.0                       | 4.0   | 1.1                     | 3.1   | SW                      | NE    | -             | -     | 1.6                  | 1.6   | 28.0                  | 30.0  |
| 4       | 26.0                 | 27.0  | 30.0                 | 32.0   | 34.0                | 30.0  | 30.0              | 27.0  | 74.0                  | 78.0   | 2.0                       | 2.0   | 0.9                     | 3.6   | NE                      | SW    | -             | -     | 1.4                  | 1.7   | 29.0                  | 31.0  |
| 5       | 27.0                 | 28.0  | 32.0                 | 34.0   | 32.0                | 32.0  | 28.0              | 30.0  | 86.0                  | 86.0   | 2.0                       | -     | 0.2                     | 2.1   | SW                      | SW    | -             | -     | 1.6                  | 2.0   | 30.0                  | 31.0  |
| 6       | 26.0                 | 28.0  | 34.0                 | 35.0   | 32.0                | 28.0  | 29.0              | 26.0  | 79.0                  | 85.0   | -                         | 4.0   | 1.4                     | 2.8   | SW                      | SW    | -             | -     | 2.1                  | 2.1   | 30.0                  | 33.0  |
| 7       | 26.0                 | 28.0  | 32.0                 | 34.0   | 30.0                | 30.0  | 28.0              | 29.0  | 85.0                  | 93.0   | -                         | -     | 0.6                     | 1.6   | SW                      | NE    | -             | -     | 1.9                  | 2.0   | 28.0                  | 35.0  |
| 8       | 27.0                 | 28.0  | 33.0                 | 35.0   | 32.0                | 30.0  | 29.0              | 29.0  | 79.0                  | 93.0   | 2.0                       | -     | 0.7                     | 1.4   | SW                      | NE    | -             | -     | 2.0                  | 2.1   | 29.0                  | 34.0  |
| 9       | 25.0                 | 25.0  | 35.0                 | 34.0   | 30.0                | 29.0  | 28.0              | 27.0  | 85.0                  | 85.0   | 2.0                       | 4.0   | 1.2                     | 2.1   | NE                      | SW    | 3.6           | -     | 2.1                  | 1.7   | 28.0                  | 33.0  |
| 10      | 26.0                 | 26.0  | 32.0                 | 35.0   | 30.0                | 30.0  | 29.0              | 28.0  | 93.0                  | 85.0   | 2.0                       | -     | 0.3                     | 1.4   | SW                      | NE    | -             | -     | 1.6                  | 1.8   | 29.0                  | 32.0  |
| 11      | 26.0                 | 25.0  | 33.0                 | 34.0   | 32.0                | 30.0  | 29.0              | 29.0  | 79.0                  | 93.0   | -                         | 2.0   | 0.3                     | 1.9   | NE                      | SW    | -             | -     | 1.7                  | 2.0   | 31.0                  | 33.0  |
| 12      | 27.0                 | 26.0  | 34.0                 | 35.0   | 34.0                | 32.0  | 30.0              | 30.0  | 74.0                  | 86.0   | -                         | 10.0  | 0.5                     | 3.7   | SW                      | SW    | -             | 2.6   | 1.9                  | 1.9   | 30.0                  | 32.0  |
| 13      | 24.0                 | 28.0  | 29.0                 | 33.0   | 30.0                | 29.0  | 27.0              | 27.0  | 78.0                  | 85.0   | -                         | 8.0   | 2.1                     | 3.6   | NE                      | SW    | 5.8           | 16.2  | 1.7                  | 2.1   | 28.0                  | 33.0  |
| 14      | 25.0                 | 27.0  | 30.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 4.0                       | 4.0   | 1.8                     | 2.8   | SW                      | NE    | -             | 0.6   | 1.8                  | 2.0   | 28.0                  | 35.0  |
| 15      | 24.0                 | 28.0  | 33.0                 | 35.0   | 27.0                | 32.0  | 26.0              | 30.0  | 92.0                  | 86.0   | 2.0                       | -     | 2.7                     | 2.5   | SW                      | SW    | -             | -     | 2.0                  | 2.1   | 27.0                  | 34.0  |
| 16      | 26.0                 | 27.0  | 32.0                 | 34.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | 2.0   | 0.3                     | 2.9   | NE                      | SW    | -             | -     | 2.1                  | 2.3   | 29.0                  | 35.0  |
| 17      | 25.0                 | 26.0  | 31.0                 | 35.0   | 28.0                | 30.0  | 26.0              | 29.0  | 85.0                  | 93.0   | 4.0                       | -     | 1.3                     | 2.3   | SW                      | NE    | -             | -     | 2.0                  | 2.5   | 28.0                  | 34.0  |
| 18      | 26.0                 | 26.0  | 32.0                 | 31.0   | 27.0                | 26.0  | 26.0              | 25.0  | 92.0                  | 92.0   | 4.0                       | -     | 1.3                     | 5.4   | SW                      | NE    | -             | -     | 1.8                  | 1.3   | 27.0                  | 30.0  |
| 19      | 24.0                 | 26.0  | 26.0                 | 29.0   | 26.0                | 26.0  | 25.0              | 25.0  | 92.0                  | 92.0   | 2.0                       | 8.0   | 3.2                     | 3.9   | NE                      | SW    | 30.4          | -     | 1.4                  | 1.6   | 25.0                  | 28.0  |
| 20      | 25.0                 | 25.0  | 29.0                 | 32.0   | 26.0                | 29.0  | 24.0              | 27.0  | 84.0                  | 85.0   | 2.0                       | -     | 4.0                     | 4.8   | SW                      | SW    | 37.4          | -     | 1.6                  | 1.8   | 27.0                  | 32.0  |
| 21      | 25.0                 | 26.0  | 30.0                 | 33.0   | 28.0                | 30.0  | 26.0              | 29.0  | 85.0                  | 93.0   | 2.0                       | -     | 0.5                     | 3.4   | SW                      | NE    | 32.2          | -     | 2.0                  | 1.6   | 28.0                  | 34.0  |
| 22      | 26.0                 | 28.0  | 32.0                 | 34.0   | 30.0                | 32.0  | 27.0              | 30.0  | 78.0                  | 86.0   | -                         | 2.0   | 0.0                     | 4.0   | NE                      | SW    | -             | -     | 2.0                  | 2.3   | 30.0                  | 35.0  |
| 23      | 27.0                 | 26.0  | 34.0                 | 33.0   | 32.0                | 30.0  | 29.0              | 29.0  | 79.0                  | 93.0   | 2.0                       | -     | 0.1                     | 1.8   | SW                      | NE    | -             | -     | 2.5                  | 2.4   | 31.0                  | 34.0  |
| 24      | 26.0                 | 28.0  | 31.0                 | 34.0   | 30.0                | 32.0  | 28.0              | 29.0  | 85.0                  | 79.0   | -                         | -     | 3.3                     | 1.9   | SW                      | NE    | -             | -     | 1.8                  | 2.2   | 29.0                  | 35.0  |
| 25      | 27.0                 | 28.0  | 32.0                 | 35.0   | 32.0                | 30.0  | 29.0              | 28.0  | 79.0                  | 85.0   | 2.0                       | -     | 0.8                     | 2.5   | NE                      | NE    | -             | -     | 2.0                  | 2.3   | 30.0                  | 34.0  |
| 26      | 26.0                 | 28.0  | 33.0                 | 35.0   | 30.0                | 30.0  | 28.0              | 28.0  | 85.0                  | 79.0   | -                         | -     | 0.2                     | 2.1   | SW                      | SW    | -             | -     | 2.1                  | 2.3   | 29.0                  | 35.0  |
| 27      | 26.0                 | 27.0  | 28.0                 | 34.0   | 30.0                | 30.0  | 28.0              | 27.0  | 85.0                  | 78.0   | -                         | -     | 0.0                     | 5.0   | SW                      | SW    | -             | -     | 2.0                  | 2.3   | 29.0                  | 34.0  |
| 28      | 26.0                 | 27.0  | 30.0                 | 34.0   | 30.0                | 29.0  | 27.0              | 27.0  | 78.0                  | 85.0   | -                         | -     | 0.0                     | 2.0   | SW                      | NE    | -             | 3.2   | 1.8                  | 2.1   | 29.0                  | 33.0  |
| 29      | 25.0                 | 26.0  | 30.0                 | 33.0   | 29.0                | 28.0  | 27.0              | 26.0  | 85.0                  | 85.0   | -                         | 2.0   | 1.2                     | 2.0   | NE                      | SW    | 4.6           | -     | 1.6                  | 1.3   | 27.0                  | 34.0  |
| 30      | 24.0                 |       | 29.0                 |        | 28.0                |       | 26.0              |       | 85.0                  |        | 2.0                       |       | 1.2                     |       | SW                      |       | 26.6          |       | 1.4                  |       | 28.0                  |       |
| Total   | 769.0                | 803.0 | 932.0                | 1009.0 | 896.0               | 890.0 | 825.0             | 832.0 | 2499.0                | 2597.0 | 50.0                      | 62.0  | 35.1                    | 89.3  |                         |       | 161.2         | 51.0  | 54.6                 | 58.5  | 858.0                 | 987.0 |
| Average | 25.6                 | 26.8  | 31.1                 | 33.6   | 29.9                | 29.7  | 27.5              | 27.7  | 83.3                  | 86.6   | 1.7                       | 2.1   | 1.2                     | 3.0   |                         |       |               |       |                      |       | 28.6                  | 32.9  |
|         | 26.2                 |       | 32.4                 |        | 29.8                |       | 27.6              |       | 84.9                  |        | 1.9                       |       | 2.1                     |       |                         |       | 212.2         |       | 113.1                |       | 30.8                  |       |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Oct-17  |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPoPM   |                      | 25.0  |                      | 31.0   |                     | 25.0  |                   | 24.0  |                       | 92.0   |                           | -     |                         | 3.6   |                         | NE    |               | -     |                      | 2.6   |                       | 32.0   |
| 1       | 25.0                 | 26.0  | 30.0                 | 33.0   | 28.0                | 26.0  | 26.0              | 25.0  | 85.0                  | 92.0   | 2.0                       | 2.0   | 0.4                     | 1.4   | SW                      | NE    | 1.0           | -     | 1.6                  | 1.3   | 27.0                  | 34.0   |
| 2       | 26.0                 | 24.0  | 30.0                 | 32.0   | 27.0                | 30.0  | 26.0              | 26.0  | 92.0                  | 72.0   | -                         | 2.0   | 0.3                     | 1.8   | NE                      | SW    | -             | 52.0  | 1.3                  | 1.7   | 28.0                  | 28.0   |
| 3       | 24.0                 | 26.0  | 32.0                 | 32.0   | 27.0                | 30.0  | 26.0              | 26.0  | 92.0                  | 72.0   | -                         | -     | 0.1                     | 0.4   | SW                      | NE    | -             | -     | 0.9                  | 1.2   | 26.0                  | 33.0   |
| 4       | 25.0                 | 27.0  | 30.0                 | 32.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | -                         | -     | -                       | 2.7   | SW                      | SW    | -             | 0.2   | 0.9                  | 1.1   | 28.0                  | 32.0   |
| 5       | 25.0                 | 27.0  | 27.0                 | 33.0   | 30.0                | 29.0  | 27.0              | 27.0  | 78.0                  | 85.0   | -                         | -     | 1.1                     | 4.9   | SW                      | SW    | 16.6          | -     | 0.9                  | 2.1   | 26.5                  | 33.0   |
| 6       | 26.0                 | 26.0  | 30.0                 | 32.0   | 29.0                | 27.0  | 27.0              | 26.0  | 85.0                  | 92.0   | -                         | -     | 3.8                     | 3.0   | NE                      | SW    | 3.6           | 16.2  | 1.1                  | 1.8   | 26.0                  | 32.0   |
| 7       | 25.0                 | 27.0  | 32.0                 | 33.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | 2.0                       | 2.0   | 1.1                     | 3.9   | SW                      | NE    | -             | -     | 1.4                  | 2.2   | 26.0                  | 33.0   |
| 8       | 24.0                 | 26.0  | 34.0                 | 34.0   | 27.0                | 28.0  | 26.0              | 26.0  | 92.0                  | 85.0   | -                         | -     | 0.8                     | 0.5   | NE                      | SW    | 8.0           | -     | 1.3                  | 1.8   | 26.0                  | 31.0   |
| 9       | 25.0                 | 27.0  | 30.0                 | 33.0   | 27.0                | 30.0  | 26.0              | 27.0  | 92.0                  | 78.0   | -                         | -     | 0.1                     | 1.2   | SW                      | NE    | -             | -     | 1.6                  | 2.1   | 27.0                  | 33.0   |
| 10      | 24.0                 | 26.0  | 32.0                 | 33.0   | 27.0                | 29.0  | 25.0              | 26.0  | 84.0                  | 78.0   | 2.0                       | -     | 1.4                     | 3.0   | SW                      | SW    | -             | -     | 1.3                  | 1.8   | 26.0                  | 34.0   |
| 11      | 25.0                 | 25.0  | 32.0                 | 32.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 1.5   | SW                      | SW    | -             | -     | 0.9                  | 1.8   | 27.0                  | 36.0   |
| 12      | 26.0                 | 27.0  | 33.0                 | 34.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.3                     | 1.4   | SW                      | SW    | -             | -     | 1.1                  | 2.0   | 28.0                  | 35.0   |
| 13      | 25.0                 | 28.0  | 32.0                 | 34.0   | 28.0                | 30.0  | 26.0              | 28.0  | 85.0                  | 85.0   | 2.0                       | -     | 0.2                     | 2.1   | NE                      | SW    | -             | -     | 1.2                  | 1.7   | 27.0                  | 36.0   |
| 14      | 26.0                 | 30.0  | 33.0                 | 34.0   | 30.0                | 30.0  | 27.0              | 28.0  | 78.0                  | 85.0   | -                         | -     | 0.0                     | 2.2   | SW                      | SW    | -             | -     | 1.5                  | 1.8   | 28.0                  | 35.0   |
| 15      | 25.0                 | 28.0  | 32.0                 | 33.0   | 29.0                | 30.0  | 27.0              | 28.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 2.7   | NE                      | SW    | -             | -     | 1.7                  | 1.9   | 27.0                  | 36.0   |
| 16      | 24.0                 | 28.0  | 32.0                 | 34.0   | 30.0                | 30.0  | 27.0              | 28.0  | 78.0                  | 85.0   | 2.0                       | -     | 0.2                     | 1.4   | SW                      | NE    | -             | -     | 1.6                  | 1.8   | 27.0                  | 35.0   |
| 17      | 24.0                 | 27.0  | 33.0                 | 33.0   | 29.0                | 29.0  | 27.0              | 26.0  | 85.0                  | 78.0   | -                         | -     | 0.3                     | 2.9   | SW                      | NE    | -             | -     | 1.9                  | 2.0   | 26.0                  | 34.0   |
| 18      | 22.0                 | 26.0  | 31.0                 | 33.0   | 26.0                | 29.0  | 24.0              | 26.0  | 84.0                  | 78.0   | 2.0                       | -     | 0.1                     | 3.2   | SW                      | SW    | -             | -     | 1.4                  | 1.8   | 25.0                  | 33.0   |
| 19      | 25.0                 | 27.0  | 31.0                 | 32.0   | 28.0                | 27.0  | 26.0              | 26.0  | 85.0                  | 92.0   | 2.0                       | -     | 2.1                     | 3.8   | NE                      | SW    | -             | 5.6   | 1.7                  | 1.3   | 26.0                  | 31.0   |
| 20      | 25.0                 | 26.0  | 28.0                 | 30.0   | 26.0                | 27.0  | 25.0              | 26.0  | 92.0                  | 92.0   | 2.0                       | 2.0   | 1.5                     | 5.0   | SW                      | SW    | 3.2           | -     | 0.8                  | 1.4   | 26.0                  | 29.0   |
| 21      | 24.0                 | 28.0  | 30.0                 | 32.0   | 30.0                | 30.0  | 27.0              | 27.0  | 78.0                  | 78.0   | 2.0                       | -     | 2.1                     | 2.8   | NE                      | SW    | 1.2           | -     | 1.4                  | 1.5   | 27.0                  | 32.0   |
| 22      | 25.0                 | 26.0  | 30.0                 | 33.0   | 29.0                | 30.0  | 26.0              | 28.0  | 78.0                  | 85.0   | 2.0                       | -     | 0.3                     | 1.0   | SW                      | NE    | -             | -     | 1.2                  | 1.6   | 27.0                  | 34.0   |
| 23      | 24.0                 | 27.0  | 34.0                 | 34.0   | 30.0                | 29.0  | 28.0              | 27.0  | 85.0                  | 85.0   | 2.0                       | -     | 0.8                     | 1.4   | SW                      | SW    | -             | -     | 1.5                  | 1.8   | 28.0                  | 35.0   |
| 24      | 25.0                 | 30.0  | 33.0                 | 36.0   | 32.0                | 32.0  | 29.0              | 28.0  | 79.0                  | 73.0   | -                         | -     | 0.0                     | 1.0   | NE                      | NE    | -             | -     | 1.9                  | 1.7   | 27.0                  | 35.0   |
| 25      | 24.0                 | 30.0  | 33.0                 | 34.0   | 34.0                | 29.0  | 29.0              | 27.0  | 68.0                  | 85.0   | -                         | -     | 0.1                     | 1.0   | NE                      | SW    | -             | -     | 1.6                  | 1.6   | 27.0                  | 34.0   |
| 26      | 22.0                 | 28.0  | 34.0                 | 33.0   | 30.0                | 28.0  | 28.0              | 26.0  | 85.0                  | 85.0   | -                         | -     | 0.1                     | 1.0   | NE                      | SW    | -             | -     | 1.6                  | 1.6   | 27.0                  | 34.0   |
| 27      | 24.0                 | 27.0  | 30.0                 | 34.0   | 30.0                | 27.0  | 27.0              | 26.0  | 78.0                  | 92.0   | -                         | -     | 0.2                     | 1.5   | SW                      | SW    | -             | -     | 2.0                  | 1.9   | 27.0                  | 34.0   |
| 28      | 22.0                 | 26.0  | 34.0                 | 33.0   | 28.0                | 27.0  | 26.0              | 25.0  | 85.0                  | 84.0   | 2.0                       | -     | 0.3                     | 1.5   | NE                      | NE    | -             | -     | 1.7                  | 2.0   | 26.0                  | 33.0   |
| 29      | 24.0                 | 25.0  | 32.0                 | 34.0   | 29.0                | 26.0  | 27.0              | 25.0  | 85.0                  | 92.0   | -                         | -     | 0.2                     | 1.2   | SW                      | NE    | -             | -     | 1.8                  | 1.9   | 25.0                  | 32.0   |
| 30      | 22.0                 | 24.0  | 30.0                 | 33.0   | 26.0                | 25.0  | 25.0              | 24.0  | 92.0                  | 92.0   | -                         | -     | 0.2                     | 1.1   | NE                      | NE    | -             | -     | 1.6                  | 1.7   | 23.0                  | 31.0   |
| 31      | 24.0                 |       | 32.0                 |        | 25.0                |       | 24.0              |       | 92.0                  |        | 2.0                       |       | 0.2                     |       | SW                      |       | -             |       | 1.6                  |       | 21.0                  |        |
| Total   | 756.0                | 830.0 | 976.0                | 1023.0 | 884.0               | 884.0 | 820.0             | 819.0 | 2624.0                | 2616.0 | 26.0                      | 8.0   | 18.3                    | 66.2  |                         |       | 33.6          | 74.0  | 44.0                 | 54.5  | 818.5                 | 1029.0 |
| Average | 24.4                 | 26.8  | 31.5                 | 33.0   | 28.5                | 28.5  | 26.5              | 26.4  | 84.6                  | 84.4   | 0.8                       | 0.3   | 0.6                     | 2.1   |                         |       |               |       |                      |       | 26.4                  | 33.2   |
|         | 25.6                 |       | 32.2                 |        | 28.5                |       | 26.4              |       | 84.5                  |        | 0.5                       |       | 1.4                     |       |                         |       | 107.6         |       | 98.5                 |       | 29.8                  |        |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Nov-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 23.0  |                      | 33.0  |                     | 27.0  |                   | 24.0  |                       | 77.0   |                           | -     |                         | 1.5   |                         | NE    |               | -     |                      | 1.7   |                       | 30.0  |
| 1       | 19.0                 | 24.0  | 28.0                 | 30.0  | 28.0                | 27.0  | 25.0              | 23.0  | 77.0                  | 70.0   | -                         | 2.0   | 0.0                     | 2.6   | NE                      | SW    | -             | -     | 1.3                  | 1.5   | 22.0                  | 29.0  |
| 2       | 20.0                 | 25.0  | 29.0                 | 30.0  | 25.0                | 28.0  | 22.0              | 23.0  | 76.0                  | 64.0   | -                         | -     | 0.1                     | 3.2   | NE                      | NE    | -             | -     | 1.1                  | 1.5   | 23.0                  | 29.0  |
| 3       | 21.0                 | 25.0  | 29.0                 | 30.0  | 26.0                | 27.0  | 23.0              | 23.0  | 76.0                  | 70.0   | 2.0                       | -     | 0.2                     | 3.8   | NE                      | SW    | -             | -     | 1.3                  | 1.6   | 23.0                  | 29.0  |
| 4       | 19.0                 | 25.0  | 28.0                 | 30.0  | 25.0                | 26.0  | 22.0              | 22.0  | 76.0                  | 69.0   | 2.0                       | 2.0   | 0.1                     | 4.0   | SW                      | SW    | -             | -     | 1.4                  | 1.5   | 23.0                  | 28.0  |
| 5       | 17.0                 | 24.5  | 27.0                 | 29.5  | 26.0                | 26.0  | 23.0              | 22.0  | 76.0                  | 69.0   | 2.0                       | 2.0   | 0.1                     | 3.7   | SE                      | SE    | -             | -     | 1.5                  | 1.3   | 23.0                  | 28.0  |
| 6       | 18.0                 | 25.0  | 28.0                 | 30.0  | 28.0                | 29.0  | 24.0              | 24.0  | 70.0                  | 64.0   | 2.0                       | -     | 0.4                     | 1.9   | NE                      | SW    | -             | -     | 1.3                  | 1.6   | 22.0                  | 28.0  |
| 7       | 19.0                 | 26.0  | 29.0                 | 31.0  | 29.0                | 29.0  | 25.0              | 24.0  | 71.0                  | 64.0   | 2.0                       | -     | 0.1                     | 2.9   | SE                      | NE    | -             | -     | 1.5                  | 1.8   | 23.0                  | 29.0  |
| 8       | 19.0                 | 26.0  | 29.0                 | 30.0  | 29.0                | 29.0  | 25.0              | 24.0  | 71.0                  | 64.0   | -                         | -     | 0.0                     | 2.1   | NE                      | SW    | -             | -     | 1.3                  | 1.7   | 24.0                  | 30.0  |
| 9       | 18.0                 | 25.0  | 30.0                 | 31.0  | 29.0                | 26.0  | 25.0              | 22.0  | 71.0                  | 69.0   | 2.0                       | -     | 0.0                     | 1.7   | NE                      | NE    | -             | -     | 1.1                  | 1.6   | 24.0                  | 29.0  |
| 10      | 16.0                 | 24.0  | 28.0                 | 29.5  | 25.0                | 27.0  | 22.0              | 22.0  | 76.0                  | 63.0   | -                         | -     | -                       | 2.5   | SW                      | NE    | -             | -     | 1.3                  | 1.7   | 22.0                  | 29.0  |
| 11      | 15.0                 | 24.0  | 28.0                 | 29.0  | 29.0                | 27.0  | 25.0              | 22.0  | 71.0                  | 63.0   | -                         | -     | 0.1                     | 3.4   | SW                      | NE    | -             | -     | 1.4                  | 1.6   | 21.0                  | 28.0  |
| 12      | 16.0                 | 25.0  | 29.0                 | 29.0  | 28.0                | 27.0  | 24.0              | 24.0  | 70.0                  | 77.0   | 2.0                       | 2.0   | 0.3                     | 2.1   | SW                      | NE    | -             | -     | 1.3                  | 1.5   | 20.0                  | 27.0  |
| 13      | 16.0                 | 25.0  | 29.0                 | 30.0  | 27.0                | 26.0  | 23.0              | 24.0  | 70.0                  | 84.0   | 2.0                       | 2.0   | 0.4                     | 5.0   | NE                      | NE    | -             | -     | 1.2                  | 1.5   | 21.0                  | 28.0  |
| 14      | 20.0                 | 26.0  | 29.0                 | 30.0  | 27.0                | 26.0  | 23.0              | 22.0  | 70.0                  | 69.0   | 2.0                       | -     | 0.7                     | 4.4   | NE                      | NE    | -             | -     | 1.3                  | 1.7   | 21.0                  | 29.0  |
| 15      | 21.0                 | 24.0  | 28.0                 | 26.0  | 25.0                | 25.0  | 22.0              | 23.0  | 76.0                  | 84.0   | 8.0                       | 8.0   | 0.5                     | 9.8   | SW                      | SW    | -             | -     | 1.5                  | 0.8   | 23.0                  | 27.0  |
| 16      | 22.0                 | 23.0  | 24.0                 | 25.0  | 23.0                | 23.0  | 22.0              | 22.0  | 91.0                  | 91.0   | 8.0                       | -     | 6.7                     | 5.9   | SW                      | NE    | 0.8           | -     | 1.7                  | 0.9   | 22.0                  | 25.0  |
| 17      | 22.0                 | 24.0  | 25.0                 | 28.0  | 25.0                | 26.0  | 23.0              | 23.0  | 84.0                  | 76.0   | 2.0                       | -     | 3.7                     | 2.9   | NE                      | NE    | -             | -     | 1.2                  | 1.3   | 23.0                  | 23.0  |
| 18      | 23.0                 | 25.0  | 27.0                 | 27.0  | 26.0                | 26.0  | 24.0              | 24.0  | 84.0                  | 84.0   | 2.0                       | -     | 1.4                     | 2.8   | NE                      | NE    | -             | -     | 1.3                  | 1.3   | 24.0                  | 22.0  |
| 19      | 22.0                 | 25.0  | 26.0                 | 30.0  | 25.0                | 26.0  | 23.0              | 24.0  | 84.0                  | 84.0   | -                         | -     | 0.0                     | 1.8   | NE                      | SW    | -             | -     | 1.2                  | 1.6   | 25.0                  | 27.0  |
| 20      | 21.0                 | 26.0  | 29.0                 | 31.0  | 28.0                | 29.0  | 25.0              | 25.0  | 77.0                  | 71.0   | 2.0                       | -     | 0.2                     | 3.4   | NE                      | SW    | -             | -     | 1.1                  | 1.7   | 24.0                  | 28.0  |
| 21      | 21.0                 | 25.0  | 29.0                 | 30.0  | 25.0                | 29.0  | 23.0              | 25.0  | 84.0                  | 71.0   | 4.0                       | -     | 0.2                     | 2.4   | SW                      | SW    | -             | -     | 1.3                  | 1.5   | 25.0                  | 30.0  |
| 22      | 21.0                 | 23.0  | 30.0                 | 31.0  | 25.0                | 28.0  | 23.0              | 24.0  | 84.0                  | 70.0   | -                         | -     | 0.0                     | 1.5   | NE                      | NE    | -             | -     | 1.3                  | 1.4   | 23.0                  | 30.0  |
| 23      | 19.0                 | 22.0  | 31.0                 | 31.0  | 26.0                | 29.0  | 24.0              | 25.0  | 84.0                  | 71.0   | -                         | -     | 0.1                     | 2.9   | SE                      | SE    | -             | -     | 1.1                  | 1.2   | 23.0                  | 30.0  |
| 24      | 15.0                 | 23.0  | 29.0                 | 30.0  | 25.0                | 28.0  | 20.0              | 23.0  | 61.0                  | 64.0   | 2.0                       | -     | 0.0                     | 2.2   | SW                      | NE    | -             | -     | 1.4                  | 1.4   | 22.0                  | 28.0  |
| 25      | 14.0                 | 19.0  | 28.0                 | 29.0  | 21.0                | 27.0  | 19.0              | 20.0  | 82.0                  | 63.0   | -                         | -     | -                       | 2.5   | NE                      | NE    | -             | -     | 1.5                  | 1.2   | 20.0                  | 27.0  |
| 26      | 13.0                 | 23.0  | 28.0                 | 29.0  | 26.0                | 24.0  | 20.0              | 20.0  | 55.0                  | 68.0   | 2.0                       | -     | 0.1                     | 2.1   | NE                      | SW    | -             | -     | 1.4                  | 1.2   | 19.0                  | 26.0  |
| 27      | 12.0                 | 23.0  | 25.0                 | 29.0  | 22.0                | 25.0  | 20.0              | 21.0  | 82.0                  | 68.0   | -                         | -     | 0.1                     | 1.3   | SW                      | SW    | -             | -     | 1.0                  | 1.1   | 18.0                  | 26.0  |
| 28      | 11.0                 | 22.0  | 28.0                 | 30.0  | 21.0                | 27.0  | 19.0              | 20.0  | 50.0                  | 50.0   | -                         | -     | 0.1                     | 0.7   | NE                      | NE    | -             | -     | 1.2                  | 1.3   | 18.0                  | 25.0  |
| 29      | 12.0                 | 22.0  | 29.0                 | 29.0  | 19.0                | 25.0  | 17.0              | 20.0  | 81.0                  | 61.0   | -                         | 2.0   | -                       | 2.9   | SW                      | SW    | -             | -     | 1.0                  | 1.4   | 16.0                  | 26.0  |
| 30      | 12.0                 |       | 27.0                 |       | 20.0                |       | 18.0              |       | 81.0                  |        | 2.0                       |       | 0.1                     |       | SW                      |       | -             |       | 1.1                  |       | 15.0                  |       |
| Total   | 534.0                | 721.5 | 843.0                | 887.0 | 763.0               | 804.0 | 673.0             | 684.0 | 2261.0                | 2112.0 | 50.0                      | 20.0  | 15.6                    | 89.7  |                         |       | 0.8           | -     | 38.6                 | 43.1  | 652.0                 | 830.0 |
| Average | 17.8                 | 24.1  | 28.1                 | 29.6  | 25.4                | 26.8  | 22.4              | 22.8  | 75.4                  | 70.4   | 1.7                       | 0.7   | 0.5                     | 3.0   |                         |       |               |       |                      |       | 21.7                  | 27.7  |
|         | 20.9                 |       | 28.8                 |       | 26.1                |       | 22.6              |       | 72.9                  |        | 1.2                       |       | 1.8                     |       |                         |       | 0.8           |       | 81.7                 |       | 24.7                  |       |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Dec-17  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 23.0  |                      | 29.0  |                     | 26.0  |                   | 21.0  |                       | 62.0   |                           | -     |                         | 1.9   |                         | NE    |               | -     |                      | 1.4   |                       | 26.0  |
| 1       | 13.0                 | 21.0  | 28.0                 | 27.0  | 21.0                | 25.0  | 19.0              | 24.0  | 82.0                  | 92.0   | 4.0                       | 2.0   | 0.1                     | 2.8   | NE                      | SW    | -             | -     | 1.2                  | 1.4   | 17.0                  | 25.0  |
| 2       | 14.0                 | 19.0  | 28.0                 | 27.0  | 20.0                | 24.0  | 18.0              | 19.0  | 81.0                  | 60.0   | -                         | -     | 0.0                     | 3.2   | SW                      | NE    | -             | -     | 1.0                  | 1.3   | 17.0                  | 24.0  |
| 3       | 11.0                 | 19.0  | 25.0                 | 27.0  | 20.0                | 22.0  | 18.0              | 18.0  | 81.0                  | 66.0   | -                         | -     | -                       | 2.8   | SW                      | SW    | -             | -     | 0.9                  | 1.3   | 16.0                  | 24.0  |
| 4       | 11.0                 | 17.0  | 25.0                 | 27.0  | 22.0                | 25.0  | 19.0              | 19.0  | 74.0                  | 54.0   | -                         | -     | 0.0                     | 2.5   | NE                      | SW    | -             | -     | 0.9                  | 1.1   | 16.0                  | 24.0  |
| 5       | 11.0                 | 20.0  | 26.0                 | 26.0  | 21.0                | 25.0  | 19.0              | 19.0  | 82.0                  | 54.0   | -                         | -     | 0.1                     | 3.5   | SW                      | SW    | -             | -     | 1.1                  | 0.9   | 17.0                  | 24.0  |
| 6       | 12.0                 | 20.0  | 27.0                 | 28.0  | 25.0                | 24.0  | 22.0              | 20.0  | 76.0                  | 68.0   | -                         | 4.0   | 0.1                     | 2.6   | SW                      | NE    | -             | -     | 1.3                  | 0.8   | 17.0                  | 25.0  |
| 7       | 12.0                 | 19.0  | 27.0                 | 26.0  | 23.0                | 25.0  | 20.0              | 19.0  | 75.0                  | 54.0   | -                         | 4.0   | 0.1                     | 3.1   | NE                      | SW    | -             | -     | 1.4                  | 1.2   | 17.0                  | 24.0  |
| 8       | 13.0                 | 18.0  | 27.0                 | 27.0  | 22.0                | 25.0  | 19.0              | 20.0  | 74.0                  | 61.0   | 2.0                       | -     | 0.1                     | 3.6   | NE                      | NE    | -             | -     | 0.8                  | 0.9   | 16.0                  | 24.0  |
| 9       | 14.0                 | 17.0  | 26.0                 | 27.0  | 25.0                | 25.0  | 20.0              | 19.0  | 61.0                  | 54.0   | 2.0                       | 4.0   | 0.1                     | 3.7   | SW                      | SW    | -             | -     | 1.2                  | 0.9   | 18.0                  | 24.0  |
| 10      | 14.0                 | 19.0  | 27.0                 | 28.0  | 26.0                | 26.0  | 22.0              | 21.0  | 69.0                  | 62.0   | 2.0                       | -     | 0.8                     | 1.4   | NE                      | NW    | -             | -     | 1.3                  | 0.8   | 19.0                  | 25.0  |
| 11      | 15.0                 | 18.0  | 29.0                 | 28.0  | 23.0                | 25.0  | 20.0              | 20.0  | 75.0                  | 61.0   | -                         | -     | 0.1                     | 0.9   | SW                      | NE    | -             | -     | 1.4                  | 0.8   | 20.0                  | 24.0  |
| 12      | 14.0                 | 17.0  | 29.0                 | 28.0  | 22.0                | 27.0  | 20.0              | 22.0  | 82.0                  | 63.0   | -                         | -     | 0.1                     | 0.7   | SW                      | SW    | -             | -     | 1.5                  | 0.8   | 19.0                  | 22.0  |
| 13      | 15.0                 | 20.0  | 30.0                 | 30.0  | 25.0                | 27.0  | 22.0              | 22.0  | 76.0                  | 63.0   | -                         | -     | 0.0                     | 1.3   | SW                      | NE    | -             | -     | 1.3                  | 0.9   | 19.0                  | 24.0  |
| 14      | 15.0                 | 19.0  | 28.0                 | 29.0  | 24.0                | 27.0  | 22.0              | 22.0  | 83.0                  | 63.0   | -                         | -     | 0.0                     | 2.8   | NE                      | SW    | -             | -     | 1.2                  | 1.1   | 18.0                  | 23.0  |
| 15      | 14.0                 | 18.0  | 29.0                 | 28.0  | 25.0                | 26.0  | 23.0              | 21.0  | 84.0                  | 62.0   | 2.0                       | -     | 0.0                     | 1.5   | SW                      | NE    | -             | -     | 1.1                  | 1.1   | 18.0                  | 24.0  |
| 16      | 13.0                 | 20.0  | 29.0                 | 30.0  | 22.0                | 28.0  | 19.0              | 22.0  | 74.0                  | 57.0   | -                         | -     | 0.2                     | 1.0   | SW                      | SW    | -             | -     | 1.2                  | 1.0   | 19.0                  | 25.0  |
| 17      | 14.0                 | 21.0  | 30.0                 | 30.0  | 24.0                | 27.0  | 22.0              | 22.0  | 83.0                  | 63.0   | -                         | -     | 0.0                     | 2.1   | SW                      | NE    | -             | -     | 1.3                  | 1.1   | 19.0                  | 25.0  |
| 18      | 13.0                 | 20.0  | 27.0                 | 29.0  | 26.0                | 26.0  | 23.0              | 20.0  | 76.0                  | 55.0   | -                         | -     | 0.0                     | 2.5   | SW                      | SW    | -             | -     | 1.1                  | 1.0   | 17.0                  | 24.0  |
| 19      | 10.0                 | 21.0  | 27.0                 | 29.0  | 19.0                | 25.0  | 15.0              | 19.0  | 63.0                  | 54.0   | -                         | -     | 0.1                     | 0.6   | SW                      | NE    | -             | -     | 1.8                  | 1.0   | 15.0                  | 22.0  |
| 20      | 10.0                 | 20.0  | 26.0                 | 30.0  | 19.0                | 25.0  | 16.0              | 18.0  | 72.0                  | 47.0   | -                         | -     | -                       | 2.7   | SW                      | NE    | -             | -     | 1.5                  | 0.9   | 14.0                  | 23.0  |
| 21      | 11.0                 | 20.0  | 26.0                 | 29.0  | 20.0                | 26.0  | 17.0              | 20.0  | 73.0                  | 55.0   | 2.0                       | -     | 0.1                     | 1.6   | SW                      | NE    | -             | -     | 1.6                  | 1.0   | 16.0                  | 23.0  |
| 22      | 12.0                 | 20.0  | 27.0                 | 29.0  | 25.0                | 25.0  | 21.0              | 20.0  | 68.0                  | 61.0   | -                         | -     | 0.1                     | 1.6   | NE                      | NE    | -             | -     | 1.4                  | 0.8   | 16.0                  | 25.0  |
| 23      | 12.0                 | 21.0  | 28.0                 | 30.0  | 24.0                | 27.0  | 21.0              | 22.0  | 75.0                  | 63.0   | -                         | -     | 0.0                     | 1.8   | NE                      | NE    | -             | -     | 1.2                  | 1.1   | 15.0                  | 24.0  |
| 24      | 13.0                 | 20.0  | 29.0                 | 29.0  | 19.0                | 25.0  | 16.0              | 20.0  | 72.0                  | 61.0   | -                         | -     | 0.1                     | 2.4   | SW                      | SW    | -             | -     | 1.3                  | 1.0   | 16.0                  | 24.0  |
| 25      | 11.0                 | 20.0  | 27.0                 | 29.0  | 22.0                | 23.0  | 19.0              | 19.0  | 74.0                  | 67.0   | -                         | -     | 0.0                     | 1.6   | SW                      | NE    | -             | -     | 1.1                  | 1.0   | 15.0                  | 24.0  |
| 26      | 12.0                 | 19.0  | 25.0                 | 28.0  | 24.0                | 24.0  | 22.0              | 22.0  | 83.0                  | 83.0   | 2.0                       | -     | 0.3                     | 1.9   | SW                      | NE    | -             | -     | 1.1                  | 0.9   | 16.0                  | 23.0  |
| 27      | 9.0                  | 20.0  | 28.0                 | 28.0  | 23.0                | 25.0  | 19.0              | 20.0  | 67.0                  | 61.0   | -                         | -     | 0.5                     | 1.6   | SW                      | NE    | -             | -     | 1.2                  | 0.8   | 14.0                  | 22.0  |
| 28      | 8.0                  | 19.0  | 27.0                 | 29.0  | 25.0                | 25.0  | 20.0              | 20.0  | 61.0                  | 61.0   | -                         | -     | 0.1                     | 2.4   | SW                      | NE    | -             | -     | 1.3                  | 0.9   | 13.0                  | 22.0  |
| 29      | 10.0                 | 19.0  | 27.0                 | 28.0  | 20.0                | 26.0  | 17.0              | 19.0  | 73.0                  | 49.0   | -                         | -     | 0.1                     | 3.3   | SW                      | SW    | -             | -     | 1.5                  | 1.1   | 15.0                  | 23.0  |
| 30      | 9.0                  | 19.0  | 28.0                 | 29.0  | 20.0                | 26.0  | 17.0              | 19.0  | 73.0                  | 49.0   | -                         | -     | -                       | 0.9   | SW                      | NE    | -             | -     | 1.6                  | 0.9   | 15.0                  | 24.0  |
| 31      | 10.0                 |       | 27.0                 |       | 25.0                |       | 20.0              |       | 61.0                  |        | -                         |       | 0.9                     |       | SW                      |       | -             |       | 1.6                  |       | 16.0                  |       |
| Total   | 375.0                | 603.0 | 849.0                | 878.0 | 701.0               | 787.0 | 607.0             | 628.0 | 2303.0                | 1885.0 | 16.0                      | 14.0  | 4.1                     | 66.2  |                         |       | -             | -     | 39.4                 | 31.2  | 515.0                 | 739.0 |
| Average | 12.1                 | 19.5  | 27.4                 | 28.3  | 22.6                | 25.4  | 19.6              | 20.3  | 74.3                  | 60.8   | 0.5                       | 0.5   | 0.1                     | 2.1   |                         |       |               |       |                      |       | 16.6                  | 23.8  |
|         | 15.8                 |       | 27.9                 |       | 24.0                |       | 19.9              |       | 67.5                  |        | 0.5                       |       | 1.1                     |       |                         |       | 0.0           |       | 70.6                 |       | 20.2                  |       |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Jan-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 20.0  |                      | 28.0  |                     | 27.0  |                   | 20.0  |                       | 50.0   |                           | -     |                         | 2.7   |                         | NE    |               | -     |                      | 0.9   |                       | 24.0  |
| 1       | 11.0                 | 21.0  | 27.0                 | 29.0  | 25.0                | 27.0  | 20.0              | 20.0  | 61.0                  | 50.0   | -                         | -     | 0.0                     | 2.5   | NE                      | NE    | -             | -     | 1.3                  | 0.9   | 16.0                  | 24.0  |
| 2       | 12.0                 | 20.0  | 28.0                 | 30.0  | 26.0                | 26.0  | 21.0              | 22.0  | 62.0                  | 69.0   | -                         | -     | 0.2                     | 1.8   | SW                      | NW    | -             | -     | 1.4                  | 0.8   | 17.0                  | 23.0  |
| 3       | 11.0                 | 19.0  | 26.0                 | 28.0  | 20.0                | 26.0  | 17.0              | 20.0  | 73.0                  | 55.0   | -                         | -     | 0.3                     | 2.1   | SW                      | SW    | -             | -     | 1.4                  | 0.8   | 16.0                  | 24.0  |
| 4       | 10.0                 | 18.0  | 27.0                 | 28.0  | 20.0                | 22.0  | 16.0              | 17.0  | 48.0                  | 58.0   | 2.0                       | -     | 0.3                     | 2.1   | NE                      | NE    | -             | -     | 1.3                  | 0.9   | 15.0                  | 23.0  |
| 5       | 10.0                 | 18.0  | 26.0                 | 28.0  | 20.0                | 22.0  | 16.0              | 17.0  | 48.0                  | 58.0   | -                         | -     | 0.6                     | 2.2   | SW                      | NE    | -             | -     | 1.2                  | 1.1   | 15.0                  | 24.0  |
| 6       | 8.0                  | 20.0  | 27.0                 | 28.0  | 25.0                | 25.0  | 20.0              | 18.0  | 61.0                  | 41.0   | -                         | -     | 0.1                     | 1.2   | SW                      | SW    | -             | -     | 1.3                  | 0.9   | 15.0                  | 23.0  |
| 7       | 8.0                  | 19.0  | 26.0                 | 27.0  | 22.0                | 25.0  | 18.0              | 18.0  | 66.0                  | 41.0   | 2.0                       | -     | 0.1                     | 1.9   | NE                      | NE    | -             | -     | 1.1                  | 0.9   | 15.0                  | 23.0  |
| 8       | 8.0                  | 17.0  | 26.0                 | 28.0  | 24.0                | 24.0  | 19.0              | 18.0  | 60.0                  | 53.0   | -                         | -     | 0.3                     | 2.6   | SW                      | SW    | -             | -     | 1.2                  | 1.2   | 14.0                  | 23.0  |
| 9       | 8.0                  | 17.0  | 25.0                 | 27.0  | 22.0                | 24.0  | 17.0              | 18.0  | 58.0                  | 53.0   | -                         | -     | 0.3                     | 1.4   | NE                      | NE    | -             | -     | 1.4                  | 1.2   | 14.0                  | 23.0  |
| 10      | 8.0                  | 19.0  | 26.0                 | 29.0  | 24.0                | 23.0  | 19.0              | 17.0  | 60.0                  | 52.0   | 2.0                       | -     | 0.3                     | 1.6   | NE                      | NE    | -             | -     | 1.2                  | 1.2   | 15.0                  | 22.0  |
| 11      | 9.0                  | 21.0  | 26.0                 | 29.0  | 24.0                | 24.0  | 19.0              | 18.0  | 60.0                  | 53.0   | -                         | -     | 0.5                     | 1.5   | SW                      | NE    | -             | -     | 1.3                  | 1.0   | 15.0                  | 24.0  |
| 12      | 9.0                  | 17.0  | 27.0                 | 30.0  | 22.0                | 26.0  | 17.0              | 20.0  | 58.0                  | 55.0   | 2.0                       | -     | 0.3                     | 2.1   | NE                      | SW    | -             | -     | 1.2                  | 1.1   | 16.0                  | 20.0  |
| 13      | 10.0                 | 18.0  | 28.0                 | 29.0  | 25.0                | 24.0  | 21.0              | 19.0  | 68.0                  | 60.0   | -                         | -     | 0.1                     | 0.4   | SW                      | NE    | -             | -     | 1.3                  | 1.0   | 15.0                  | 22.0  |
| 14      | 12.0                 | 18.0  | 28.0                 | 30.0  | 24.0                | 24.0  | 20.0              | 19.0  | 68.0                  | 60.0   | 2.0                       | -     | 0.7                     | 1.8   | NE                      | NW    | -             | -     | 1.3                  | 1.0   | 16.0                  | 22.0  |
| 15      | 14.0                 | 19.0  | 26.0                 | 29.0  | 20.0                | 26.0  | 18.0              | 21.0  | 81.0                  | 62.0   | 2.0                       | -     | 0.2                     | 0.1   | SW                      | NE    | -             | -     | 1.2                  | 1.1   | 17.0                  | 20.0  |
| 16      | 12.0                 | 19.0  | 23.0                 | 30.0  | 19.0                | 26.0  | 16.0              | 21.0  | 72.0                  | 62.0   | -                         | -     | 2.1                     | 2.5   | SE                      | SW    | -             | -     | 1.3                  | 1.2   | 16.0                  | 21.0  |
| 17      | 9.0                  | 18.0  | 29.0                 | 29.0  | 25.0                | 27.0  | 19.0              | 20.0  | 54.0                  | 50.0   | -                         | -     | 0.3                     | 1.6   | NE                      | NE    | -             | -     | 1.4                  | 1.4   | 14.0                  | 22.0  |
| 18      | 10.0                 | 18.0  | 28.0                 | 30.0  | 24.0                | 27.0  | 19.0              | 20.0  | 60.0                  | 50.0   | -                         | -     | 0.1                     | 1.7   | SW                      | NE    | -             | -     | 1.3                  | 1.2   | 15.0                  | 23.0  |
| 19      | 9.0                  | 16.0  | 29.0                 | 29.0  | 23.0                | 24.0  | 18.0              | 19.0  | 59.0                  | 60.0   | -                         | -     | 0.3                     | 2.4   | SW                      | SW    | -             | -     | 1.4                  | 1.1   | 14.0                  | 22.0  |
| 20      | 8.0                  | 18.0  | 25.0                 | 30.0  | 24.0                | 28.0  | 20.0              | 22.0  | 68.0                  | 57.0   | -                         | -     | 0.3                     | 1.7   | SW                      | SW    | -             | -     | 1.3                  | 1.4   | 13.0                  | 24.0  |
| 21      | 10.0                 | 20.0  | 28.0                 | 29.0  | 26.0                | 28.0  | 22.0              | 22.0  | 69.0                  | 57.0   | -                         | -     | 0.1                     | 2.6   | NE                      | NE    | -             | -     | 1.5                  | 1.2   | 14.0                  | 24.0  |
| 22      | 9.0                  | 19.0  | 28.0                 | 29.0  | 21.0                | 27.0  | 17.0              | 20.0  | 65.0                  | 50.0   | -                         | -     | 0.1                     | 1.8   | SW                      | SW    | -             | -     | 1.6                  | 1.3   | 15.0                  | 24.0  |
| 23      | 10.0                 | 20.0  | 29.0                 | 30.0  | 26.0                | 27.0  | 21.0              | 20.0  | 62.0                  | 50.0   | -                         | -     | 0.0                     | 1.8   | SW                      | NE    | -             | -     | 1.6                  | 1.1   | 16.0                  | 25.0  |
| 24      | 8.0                  | 20.0  | 27.0                 | 30.0  | 21.0                | 28.0  | 17.0              | 22.0  | 65.0                  | 57.0   | -                         | -     | 0.2                     | 2.0   | SW                      | SW    | -             | -     | 1.5                  | 1.3   | 16.0                  | 25.0  |
| 25      | 10.0                 | 19.0  | 29.0                 | 29.0  | 22.0                | 28.0  | 18.0              | 22.0  | 66.0                  | 57.0   | 4.0                       | 2.0   | 0.4                     | 2.2   | SW                      | SW    | -             | -     | 1.4                  | 1.2   | 15.0                  | 25.0  |
| 26      | 9.0                  | 17.0  | 29.0                 | 30.0  | 19.0                | 27.0  | 16.0              | 20.0  | 72.0                  | 50.0   | -                         | -     | 0.1                     | 2.0   | SW                      | NW    | -             | -     | 1.5                  | 1.1   | 15.0                  | 26.0  |
| 27      | 10.0                 | 18.0  | 28.0                 | 29.0  | 23.0                | 28.0  | 19.0              | 20.0  | 67.0                  | 45.0   | -                         | -     | 0.2                     | 2.7   | SW                      | SW    | -             | -     | 1.7                  | 1.4   | 14.0                  | 25.0  |
| 28      | 8.0                  | 19.0  | 29.0                 | 30.0  | 23.0                | 28.0  | 19.0              | 19.0  | 67.0                  | 39.0   | 4.0                       | 4.0   | 0.1                     | 2.9   | NE                      | NE    | -             | -     | 1.5                  | 1.5   | 13.0                  | 25.0  |
| 29      | 9.0                  | 19.0  | 29.0                 | 30.0  | 25.0                | 28.0  | 20.0              | 20.0  | 61.0                  | 45.0   | 4.0                       | 2.0   | 0.4                     | 2.2   | NW                      | SW    | -             | -     | 1.6                  | 1.6   | 15.0                  | 25.0  |
| 30      | 9.0                  | 19.0  | 30.0                 | 30.0  | 25.0                | 27.0  | 20.0              | 20.0  | 61.0                  | 50.0   | 4.0                       | -     | 0.7                     | 2.4   | SW                      | NE    | -             | -     | 1.5                  | 1.7   | 14.0                  | 24.0  |
| 31      | 11.0                 |       | 31.0                 |       | 26.0                |       | 20.0              |       | 55.0                  |        | 4.0                       |       | 1.3                     |       | SW                      |       | -             |       | 1.4                  |       | 15.0                  |       |
| Total   | 299.0                | 580.0 | 850.0                | 901.0 | 715.0               | 803.0 | 579.0             | 609.0 | 1955.0                | 1649.0 | 32.0                      | 8.0   | 10.8                    | 60.4  |                         |       | -             | -     | 42.6                 | 35.7  | 465.0                 | 724.0 |
| Average | 9.6                  | 18.7  | 27.4                 | 29.1  | 23.1                | 25.9  | 18.7              | 19.6  | 63.1                  | 53.2   | 1.0                       | 0.3   | 0.3                     | 1.9   |                         |       |               |       |                      |       | 15.0                  | 23.4  |
|         | 14.2                 |       | 28.2                 |       | 24.5                |       | 19.2              |       | 58.1                  |        | 0.6                       |       | 1.1                     |       |                         |       | 0.0           |       | 78.3                 |       | 19.2                  |       |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Feb-18  |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPoPM   |                      | 20.0  |                      | 30.0  |                     | 28.0  |                   | 20.0  |                       | 45.0   |                           | -     |                         | 4.3   |                         | SW    |               | -     |                      | 1.9   |                       | 25.0  |
| 1       | 11.0                 | 25.0  | 31.0                 | 32.0  | 30.0                | 26.0  | 23.0              | 19.0  | 53.0                  | 49.0   | -                         | -     | 0.9                     | 3.2   | SW                      | SW    | -             | -     | 1.7                  | 2.0   | 18.0                  | 26.0  |
| 2       | 11.0                 | 20.0  | 30.0                 | 32.0  | 26.0                | 29.0  | 20.0              | 20.0  | 55.0                  | 40.0   | 2.0                       | -     | 0.8                     | 3.2   | SW                      | SW    | -             | -     | 1.8                  | 2.0   | 16.0                  | 27.0  |
| 3       | 11.0                 | 22.0  | 32.0                 | 33.0  | 29.0                | 30.0  | 22.0              | 22.0  | 52.0                  | 47.0   | -                         | -     | 0.0                     | 1.7   | NE                      | NE    | -             | -     | 1.7                  | 2.0   | 17.0                  | 28.0  |
| 4       | 12.0                 | 25.0  | 33.0                 | 34.0  | 30.0                | 30.0  | 22.0              | 22.0  | 47.0                  | 47.0   | 2.0                       | -     | 0.5                     | 2.9   | NE                      | NE    | -             | -     | 1.9                  | 2.0   | 18.0                  | 26.0  |
| 5       | 14.0                 | 24.0  | 32.0                 | 33.0  | 30.0                | 29.0  | 23.0              | 20.0  | 53.0                  | 40.0   | -                         | 2.0   | 0.2                     | 2.3   | NE                      | SW    | -             | -     | 1.7                  | 1.9   | 19.0                  | 26.0  |
| 6       | 15.0                 | 23.0  | 32.0                 | 33.0  | 28.0                | 30.0  | 22.0              | 22.0  | 57.0                  | 47.0   | 2.0                       | -     | 1.4                     | 2.5   | SW                      | SW    | -             | -     | 1.8                  | 1.9   | 20.0                  | 27.0  |
| 7       | 16.0                 | 24.0  | 33.0                 | 32.0  | 29.0                | 29.0  | 23.0              | 20.0  | 58.0                  | 40.0   | 4.0                       | -     | 0.6                     | 3.7   | SW                      | NE    | -             | -     | 1.7                  | 2.0   | 20.0                  | 22.0  |
| 8       | 16.0                 | 24.0  | 30.0                 | 32.0  | 30.0                | 30.0  | 24.0              | 22.0  | 59.0                  | 47.0   | 2.0                       | -     | 0.3                     | 2.6   | NE                      | SW    | -             | -     | 1.7                  | 1.9   | 22.0                  | 24.0  |
| 9       | 16.0                 | 23.0  | 33.0                 | 31.0  | 23.0                | 29.0  | 20.0              | 23.0  | 75.0                  | 58.0   | -                         | -     | 0.4                     | 2.0   | SW                      | SE    | -             | -     | 1.8                  | 2.0   | 20.0                  | 26.0  |
| 10      | 15.0                 | 24.0  | 32.0                 | 31.0  | 30.0                | 28.0  | 24.0              | 22.0  | 59.0                  | 57.0   | -                         | -     | 0.1                     | 3.0   | SE                      | SW    | -             | -     | 2.0                  | 1.8   | 21.0                  | 27.0  |
| 11      | 16.0                 | 21.0  | 31.0                 | 31.0  | 27.0                | 28.0  | 22.0              | 22.0  | 63.0                  | 57.0   | 4.0                       | 4.0   | 0.9                     | 3.1   | NE                      | SW    | -             | -     | 1.9                  | 2.0   | 22.0                  | 26.0  |
| 12      | 17.0                 | 18.0  | 29.0                 | 30.0  | 23.0                | 28.0  | 20.0              | 22.0  | 75.0                  | 57.0   | -                         | 2.0   | 2.1                     | 4.7   | SW                      | NE    | 1.8           | -     | 2.2                  | 1.6   | 21.0                  | 23.0  |
| 13      | 16.0                 | 23.0  | 29.0                 | 32.0  | 25.0                | 30.0  | 20.0              | 22.0  | 61.0                  | 57.0   | 2.0                       | 2.0   | 0.4                     | 3.2   | SW                      | NE    | -             | -     | 1.9                  | 2.0   | 22.0                  | 25.0  |
| 14      | 16.0                 | 22.0  | 30.0                 | 30.0  | 27.0                | 28.0  | 22.0              | 22.0  | 63.0                  | 57.0   | -                         | 2.0   | 3.5                     | 3.4   | SW                      | NE    | -             | -     | 2.0                  | 2.1   | 23.0                  | 25.0  |
| 15      | 15.0                 | 23.0  | 30.0                 | 31.0  | 26.0                | 30.0  | 21.0              | 21.0  | 62.0                  | 42.0   | -                         | 2.0   | 0.3                     | 2.9   | SW                      | SW    | -             | -     | 2.0                  | 2.1   | 22.0                  | 26.0  |
| 16      | 15.0                 | 22.0  | 31.0                 | 31.0  | 30.0                | 29.0  | 22.0              | 21.0  | 47.0                  | 46.0   | -                         | -     | 0.6                     | 2.6   | SW                      | SW    | -             | -     | 2.0                  | 2.1   | 21.0                  | 26.0  |
| 17      | 14.0                 | 24.0  | 30.0                 | 32.0  | 29.0                | 30.0  | 21.0              | 22.0  | 46.0                  | 47.0   | 2.0                       | -     | 0.7                     | 2.7   | NE                      | NW    | -             | -     | 1.9                  | 2.0   | 20.0                  | 27.0  |
| 18      | 14.0                 | 23.0  | 31.0                 | 32.0  | 24.0                | 29.0  | 19.0              | 21.0  | 60.0                  | 46.0   | 2.0                       | -     | 0.3                     | 3.3   | NE                      | NW    | -             | -     | 2.0                  | 2.1   | 20.0                  | 26.0  |
| 19      | 14.0                 | 25.0  | 26.0                 | 34.0  | 26.0                | 30.0  | 21.0              | 22.0  | 62.0                  | 47.0   | 2.0                       | 2.0   | 0.1                     | 2.6   | SW                      | NE    | -             | -     | 2.0                  | 2.1   | 20.0                  | 28.0  |
| 20      | 16.0                 | 24.0  | 31.0                 | 33.0  | 29.0                | 29.0  | 23.0              | 21.0  | 58.0                  | 46.0   | 2.0                       | 2.0   | 0.2                     | 2.5   | NE                      | NW    | -             | -     | 2.1                  | 2.0   | 21.0                  | 28.0  |
| 21      | 17.0                 | 25.0  | 31.0                 | 35.0  | 27.0                | 30.0  | 21.0              | 22.0  | 56.0                  | 47.0   | -                         | -     | 0.1                     | 3.5   | SW                      | NE    | -             | -     | 2.0                  | 2.1   | 21.0                  | 29.0  |
| 22      | 14.0                 | 25.0  | 32.0                 | 34.0  | 29.0                | 30.0  | 23.0              | 22.0  | 58.0                  | 47.0   | 2.0                       | -     | 0.5                     | 3.1   | SW                      | NE    | -             | -     | 2.4                  | 2.3   | 19.0                  | 28.0  |
| 23      | 15.0                 | 24.0  | 33.0                 | 37.0  | 27.0                | 32.0  | 21.0              | 24.0  | 56.0                  | 49.0   | 2.0                       | -     | 0.7                     | 2.8   | SW                      | SW    | -             | -     | 2.2                  | 2.2   | 19.0                  | 30.0  |
| 24      | 16.0                 | 26.0  | 34.0                 | 36.0  | 30.0                | 32.0  | 24.0              | 25.0  | 59.0                  | 55.0   | 2.0                       | 2.0   | 0.2                     | 3.1   | NE                      | SW    | -             | -     | 2.5                  | 2.3   | 20.0                  | 30.0  |
| 25      | 17.0                 | 24.0  | 35.0                 | 38.0  | 26.0                | 34.0  | 21.0              | 26.0  | 62.0                  | 51.0   | 2.0                       | -     | 0.4                     | 3.9   | SW                      | SW    | -             | -     | 2.5                  | 2.6   | 20.0                  | 32.0  |
| 26      | 16.0                 | 25.0  | 34.0                 | 36.0  | 25.0                | 34.0  | 20.0              | 25.0  | 61.0                  | 46.0   | 2.0                       | 2.0   | 0.7                     | 4.1   | SW                      | NE    | -             | -     | 2.4                  | 2.5   | 21.0                  | 31.0  |
| 27      | 17.0                 | 25.0  | 35.0                 | 36.0  | 27.0                | 34.0  | 21.0              | 24.0  | 56.0                  | 41.0   | 2.0                       | 4.0   | 0.3                     | 4.2   | SW                      | NE    | -             | -     | 2.3                  | 2.8   | 22.0                  | 31.0  |
| 28      | 15.0                 |       | 35.0                 |       | 32.0                |       | 24.0              |       | 49.0                  |        | 2.0                       |       | 0.8                     |       | NE                      |       | -             |       | 2.6                  |       | 21.0                  |       |
| Total   | 417.0                | 653.0 | 885.0                | 921.0 | 774.0               | 835.0 | 609.0             | 616.0 | 1622.0                | 1355.0 | 40.0                      | 26.0  | 17.6                    | 87.1  |                         |       | 1.8           | -     | 56.7                 | 58.3  | 566.0                 | 755.0 |
| Average | 14.9                 | 23.3  | 31.6                 | 32.9  | 27.6                | 29.8  | 21.8              | 22.0  | 57.9                  | 48.4   | 1.4                       | 0.9   | 0.6                     | 3.1   |                         |       |               |       |                      |       | 20.2                  | 27.0  |
|         | 19.1                 |       | 32.3                 |       | 28.7                |       | 21.9              |       | 53.2                  |        | 1.2                       |       | 1.9                     |       |                         |       | 1.8           |       | 115.0                |       | 23.6                  |       |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Mar-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM     |                      | 27.0  |                      | 37.0   |                     | 34.0   |                   | 24.0  |                       | 41.0   |                           | -     |                         | 3.1   |                         | SW    |               | -     |                      | 2.7   |                       | 32.0  |
| 1       | 16.0                 | 27.0  | 34.0                 | 37.0   | 27.0                | 32.0   | 21.0              | 25.0  | 56.0                  | 55.0   | 2.0                       | -     | 0.4                     | 2.8   | SW                      | NE    | -             | -     | 2.6                  | 2.5   | 21.0                  | 32.0  |
| 2       | 18.0                 | 27.0  | 35.0                 | 39.0   | 34.0                | 36.0   | 26.0              | 26.0  | 51.0                  | 43.0   | 2.0                       | -     | 0.2                     | 3.6   | NE                      | NE    | -             | -     | 2.8                  | 2.6   | 22.0                  | 33.0  |
| 3       | 19.0                 | 27.0  | 37.0                 | 38.0   | 36.0                | 36.0   | 26.0              | 26.0  | 43.0                  | 43.0   | 4.0                       | 2.0   | 1.3                     | 4.3   | SW                      | SW    | -             | -     | 3.0                  | 2.5   | 23.0                  | 32.0  |
| 4       | 18.0                 | 25.0  | 36.0                 | 38.0   | 25.0                | 34.0   | 20.0              | 24.0  | 61.0                  | 41.0   | 2.0                       | -     | 0.9                     | 4.0   | SW                      | SW    | -             | -     | 2.9                  | 2.6   | 22.0                  | 31.0  |
| 5       | 20.0                 | 30.0  | 33.0                 | 38.0   | 27.0                | 30.0   | 21.0              | 23.0  | 56.0                  | 53.0   | 2.0                       | 2.0   | 5.8                     | 2.6   | NE                      | NE    | -             | -     | 3.0                  | 2.7   | 24.0                  | 29.0  |
| 6       | 19.0                 | 26.0  | 34.0                 | 35.0   | 26.0                | 30.0   | 21.0              | 25.0  | 62.0                  | 65.0   | -                         | -     | 0.9                     | 2.6   | SW                      | NE    | -             | -     | 2.8                  | 2.8   | 23.0                  | 30.0  |
| 7       | 18.0                 | 30.0  | 32.0                 | 37.0   | 32.0                | 34.0   | 26.0              | 24.0  | 61.0                  | 41.0   | 2.0                       | -     | 0.2                     | 3.7   | NE                      | NE    | -             | -     | 2.6                  | 2.3   | 24.0                  | 33.0  |
| 8       | 19.0                 | 30.0  | 34.0                 | 35.0   | 27.0                | 34.0   | 23.0              | 24.0  | 70.0                  | 41.0   | 2.0                       | 4.0   | 0.6                     | 6.6   | SW                      | SW    | -             | -     | 2.8                  | 2.4   | 24.0                  | 31.0  |
| 9       | 18.0                 | 29.0  | 32.0                 | 34.0   | 26.0                | 32.0   | 21.0              | 25.0  | 62.0                  | 55.0   | 2.0                       | 2.0   | 1.0                     | 3.7   | SW                      | NE    | -             | -     | 2.6                  | 2.3   | 23.0                  | 30.0  |
| 10      | 19.0                 | 28.0  | 34.0                 | 37.0   | 24.0                | 32.0   | 22.0              | 25.0  | 68.0                  | 55.0   | -                         | -     | 0.6                     | 3.0   | SW                      | NE    | -             | -     | 2.4                  | 2.4   | 22.0                  | 31.0  |
| 11      | 19.0                 | 30.0  | 34.0                 | 37.0   | 27.0                | 32.0   | 23.0              | 24.0  | 70.0                  | 49.0   | 4.0                       | -     | 0.6                     | 4.0   | SW                      | SW    | -             | -     | 2.5                  | 2.5   | 23.0                  | 31.0  |
| 12      | 17.0                 | 26.0  | 33.0                 | 35.0   | 24.0                | 30.0   | 22.0              | 25.0  | 83.0                  | 65.0   | -                         | -     | 2.6                     | 3.0   | SW                      | NE    | -             | -     | 2.5                  | 2.3   | 23.0                  | 30.0  |
| 13      | 19.0                 | 28.0  | 35.0                 | 28.0   | 30.0                | 32.0   | 24.0              | 24.0  | 59.0                  | 49.0   | 4.0                       | -     | 1.2                     | 5.6   | NE                      | NE    | -             | -     | 2.6                  | 2.6   | 24.0                  | 31.0  |
| 14      | 19.0                 | 30.0  | 34.0                 | 39.0   | 32.0                | 34.0   | 24.0              | 24.0  | 49.0                  | 41.0   | 4.0                       | 4.0   | 1.1                     | 3.2   | SW                      | NE    | -             | -     | 2.5                  | 3.0   | 24.0                  | 32.0  |
| 15      | 18.0                 | 31.0  | 35.0                 | 37.0   | 32.0                | 34.0   | 25.0              | 26.0  | 55.0                  | 46.0   | 2.0                       | 2.0   | 1.0                     | 4.4   | SW                      | NE    | -             | -     | 2.6                  | 2.8   | 24.0                  | 31.0  |
| 16      | 15.0                 | 25.0  | 34.0                 | 29.0   | 25.0                | 24.0   | 21.0              | 22.0  | 68.0                  | 83.0   | 2.0                       | 2.0   | 0.8                     | 2.7   | SW                      | NE    | -             | -     | 2.4                  | 2.0   | 24.0                  | 25.0  |
| 17      | 17.0                 | 27.0  | 33.0                 | 35.0   | 32.0                | 34.0   | 25.0              | 26.0  | 55.0                  | 46.0   | -                         | 2.0   | 1.8                     | 4.0   | SW                      | NE    | -             | -     | 2.3                  | 2.4   | 23.0                  | 31.0  |
| 18      | 19.0                 | 26.0  | 34.0                 | 36.0   | 26.0                | 32.0   | 23.0              | 25.0  | 76.0                  | 55.0   | 2.0                       | 2.0   | 0.8                     | 5.3   | SW                      | SW    | -             | -     | 2.5                  | 2.5   | 23.0                  | 31.0  |
| 19      | 20.0                 | 29.0  | 33.0                 | 37.0   | 32.0                | 34.0   | 25.0              | 26.0  | 55.0                  | 46.0   | -                         | 4.0   | 0.4                     | 5.6   | SW                      | NE    | -             | -     | 2.6                  | 2.8   | 24.0                  | 31.0  |
| 20      | 19.0                 | 30.0  | 36.0                 | 37.0   | 32.0                | 34.0   | 25.0              | 27.0  | 55.0                  | 56.0   | 2.0                       | 2.0   | 1.0                     | 3.7   | NE                      | SW    | -             | -     | 2.6                  | 3.0   | 24.0                  | 32.0  |
| 21      | 20.0                 | 28.0  | 36.0                 | 37.0   | 30.0                | 32.0   | 26.0              | 25.0  | 72.0                  | 55.0   | -                         | 2.0   | 0.2                     | 3.8   | SW                      | SW    | -             | -     | 2.5                  | 2.8   | 23.0                  | 30.0  |
| 22      | 23.0                 | 29.0  | 37.0                 | 36.0   | 34.0                | 34.0   | 26.0              | 26.0  | 51.0                  | 46.0   | 2.0                       | 4.0   | 1.2                     | 2.9   | NE                      | SW    | -             | -     | 2.5                  | 2.6   | 25.0                  | 31.0  |
| 23      | 18.0                 | 30.0  | 36.0                 | 38.0   | 30.0                | 36.0   | 26.0              | 28.0  | 73.0                  | 53.0   | 2.0                       | 2.0   | 1.0                     | 3.2   | SW                      | NE    | -             | -     | 2.5                  | 3.0   | 24.0                  | 33.0  |
| 24      | 19.0                 | 30.0  | 35.0                 | 38.0   | 32.0                | 34.0   | 26.0              | 26.0  | 61.0                  | 46.0   | -                         | 4.0   | 0.6                     | 3.8   | SW                      | SW    | -             | -     | 2.5                  | 3.0   | 24.0                  | 33.0  |
| 25      | 20.0                 | 29.0  | 36.0                 | 39.0   | 30.0                | 36.0   | 26.0              | 29.0  | 73.0                  | 58.0   | 2.0                       | 4.0   | 0.8                     | 3.7   | SW                      | SW    | -             | -     | 2.7                  | 3.1   | 24.0                  | 34.0  |
| 26      | 21.0                 | 30.0  | 37.0                 | 38.0   | 34.0                | 34.0   | 26.0              | 26.0  | 51.0                  | 46.0   | 2.0                       | -     | 0.6                     | 4.4   | NE                      | SW    | -             | -     | 2.8                  | 3.2   | 25.0                  | 33.0  |
| 27      | 21.0                 | 31.0  | 36.0                 | 39.0   | 32.0                | 36.0   | 25.0              | 28.0  | 55.0                  | 53.0   | -                         | -     | 0.8                     | 3.7   | SW                      | SW    | -             | -     | 2.9                  | 3.3   | 24.0                  | 33.0  |
| 28      | 19.0                 | 29.0  | 36.0                 | 41.0   | 30.0                | 38.0   | 24.0              | 30.0  | 59.0                  | 54.0   | 2.0                       | 2.0   | 0.1                     | 2.1   | SW                      | NE    | -             | -     | 2.8                  | 3.4   | 23.0                  | 34.0  |
| 29      | 20.0                 | 30.0  | 37.0                 | 40.0   | 32.0                | 36.0   | 25.0              | 28.0  | 55.0                  | 53.0   | 2.0                       | 2.0   | 6.4                     | 2.4   | SW                      | SW    | -             | -     | 2.7                  | 3.3   | 24.0                  | 34.0  |
| 30      | 23.0                 | 32.0  | 41.0                 | 41.0   | 34.0                | 36.0   | 28.0              | 28.0  | 62.0                  | 53.0   | -                         | -     | 1.4                     | 4.0   | SW                      | NE    | -             | -     | 2.8                  | 3.5   | 26.0                  | 35.0  |
| 31      | 23.0                 |       | 38.0                 |        | 30.0                |        | 28.0              |       | 85.0                  |        | -                         |       | 1.4                     |       | SW                      |       | -             |       | 2.7                  |       | 27.0                  |       |
| Total   | 593.0                | 886.0 | 1087.0               | 1142.0 | 924.0               | 1036.0 | 750.0             | 794.0 | 1912.0                | 1586.0 | 50.0                      | 48.0  | 37.4                    | 115.7 |                         |       | -             | -     | 82.0                 | 84.9  | 733.0                 | 979.0 |
| Average | 19.1                 | 28.6  | 35.1                 | 36.8   | 29.8                | 33.4   | 24.2              | 25.6  | 61.7                  | 51.2   | 1.6                       | 1.5   | 1.2                     | 3.7   |                         |       |               |       |                      |       | 23.6                  | 31.6  |
|         | 23.9                 |       | 36.0                 |        | 31.6                |        | 24.9              |       | 56.4                  |        | 1.6                       |       | 2.5                     |       |                         |       | 0.0           |       | 166.9                |       | 27.6                  |       |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| Apr-18  |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 29.0  |                      | 39.0   |                     | 34.0   |                   | 30.0  |                       | 74.0   |                           | -     |                         | 4.6   |                         | NE    |               | -     |                      | 3.4   |                       | 34.0   |
| 1       | 24.0                 | 29.0  | 39.0                 | 39.0   | 30.0                | 30.0   | 28.0              | 25.0  | 85.0                  | 65.0   | ..                        | ..    | 3.8                     | 4.2   | NE                      | SW    | 5.6           | -     | 2.6                  | 3.4   | 27.0                  | 31.0   |
| 2       | 20.0                 | 28.0  | 33.0                 | 36.0   | 28.0                | 34.0   | 24.0              | 29.0  | 70.0                  | 68.0   | ..                        | ..    | 3.2                     | 2.8   | SW                      | NE    | -             | -     | 4.2                  | 2.8   | 24.0                  | 33.0   |
| 3       | 23.0                 | 29.0  | 35.0                 | 35.0   | 32.0                | 34.0   | 28.0              | 30.0  | 73.0                  | 74.0   | ..                        | ..    | 1.2                     | 4.0   | SW                      | SW    | -             | -     | 2.5                  | 3.6   | 27.0                  | 33.0   |
| 4       | 24.0                 | 30.0  | 38.0                 | 39.0   | 32.0                | 36.0   | 27.0              | 30.0  | 67.0                  | 63.0   | ..                        | ..    | 1.0                     | 3.2   | SW                      | NE    | -             | -     | 2.7                  | 3.7   | 26.0                  | 34.0   |
| 5       | 26.0                 | 29.0  | 40.0                 | 41.0   | 30.0                | 38.0   | 26.0              | 32.0  | 72.0                  | 59.0   | ..                        | ..    | 2.4                     | 3.4   | SW                      | NE    | -             | -     | 3.0                  | 3.8   | 27.0                  | 35.0   |
| 6       | 25.0                 | 30.0  | 40.0                 | 41.0   | 34.0                | 36.0   | 28.0              | 32.0  | 62.0                  | 75.0   | ..                        | ..    | 0.8                     | 6.7   | SW                      | NE    | -             | -     | 3.5                  | 3.9   | 28.0                  | 35.0   |
| 7       | 25.0                 | 31.0  | 35.0                 | 40.0   | 34.0                | 38.0   | 28.0              | 32.0  | 62.0                  | 72.0   | ..                        | ..    | 4.6                     | 4.4   | SW                      | NE    | -             | -     | 3.7                  | 4.1   | 27.0                  | 34.0   |
| 8       | 18.0                 | 29.0  | 38.0                 | 36.0   | 28.0                | 30.0   | 25.0              | 25.0  | 77.0                  | 65.0   | ..                        | ..    | 4.5                     | 5.3   | SW                      | NE    | 21.4          | -     | 1.5                  | 2.8   | 25.0                  | 33.0   |
| 9       | 26.0                 | 29.0  | 33.0                 | 37.0   | 30.0                | 30.0   | 27.0              | 27.0  | 78.0                  | 78.0   | ..                        | ..    | 0.1                     | 5.7   | NE                      | SW    | -             | -     | 1.9                  | 2.7   | 27.0                  | 32.0   |
| 10      | 24.0                 | 28.0  | 32.0                 | 39.0   | 29.0                | 34.0   | 26.0              | 30.0  | 78.0                  | 74.0   | ..                        | ..    | 2.7                     | 4.5   | NE                      | SW    | -             | -     | 2.0                  | 3.0   | 26.0                  | 33.0   |
| 11      | 24.0                 | 30.0  | 34.0                 | 40.0   | 30.0                | 36.0   | 27.0              | 32.0  | 78.0                  | 75.0   | ..                        | ..    | 2.2                     | 4.0   | SW                      | NE    | -             | -     | 2.3                  | 3.5   | 27.0                  | 35.0   |
| 12      | 25.0                 | 26.0  | 36.0                 | 38.0   | 30.0                | 34.0   | 27.0              | 30.0  | 78.0                  | 74.0   | ..                        | ..    | 1.0                     | 5.8   | NE                      | SW    | -             | -     | 2.5                  | 3.0   | 27.0                  | 32.0   |
| 13      | 24.0                 | 28.0  | 34.0                 | 38.0   | 32.0                | 36.0   | 28.0              | 32.0  | 73.0                  | 75.0   | ..                        | ..    | 5.5                     | 4.1   | NE                      | SE    | -             | -     | 2.4                  | 3.1   | 26.0                  | 33.0   |
| 14      | 27.0                 | 32.0  | 39.0                 | 41.0   | 32.0                | 36.0   | 29.0              | 30.0  | 79.0                  | 63.0   | ..                        | ..    | 1.4                     | 4.8   | SE                      | NW    | -             | -     | 3.0                  | 3.5   | 29.0                  | 35.0   |
| 15      | 25.0                 | 29.0  | 37.0                 | 41.0   | 34.0                | 36.0   | 30.0              | 31.0  | 74.0                  | 69.0   | ..                        | ..    | 2.3                     | 4.3   | SE                      | NE    | -             | -     | 3.0                  | 3.7   | 30.0                  | 34.0   |
| 16      | 26.0                 | 30.0  | 37.0                 | 40.0   | 32.0                | 38.0   | 28.0              | 32.0  | 73.0                  | 59.0   | ..                        | ..    | 1.2                     | 3.9   | NE                      | NW    | -             | -     | 3.2                  | 3.8   | 29.0                  | 35.0   |
| 17      | 27.0                 | 29.0  | 38.0                 | 41.0   | 34.0                | 32.0   | 30.0              | 28.0  | 74.0                  | 73.0   | ..                        | ..    | 0.7                     | 7.1   | SE                      | SW    | -             | -     | 3.3                  | 1.1   | 30.0                  | 33.0   |
| 18      | 25.0                 | 32.0  | 35.0                 | 41.0   | 32.0                | 36.0   | 28.0              | 31.0  | 73.0                  | 69.0   | ..                        | ..    | 2.3                     | 7.1   | SE                      | NE    | -             | -     | 2.7                  | 3.9   | 28.0                  | 35.0   |
| 19      | 26.0                 | 31.0  | 38.0                 | 40.0   | 32.0                | 38.0   | 28.0              | 32.0  | 73.0                  | 59.0   | ..                        | ..    | 2.2                     | 6.1   | NE                      | SE    | -             | -     | 3.3                  | 3.8   | 28.0                  | 35.0   |
| 20      | 30.0                 | 32.0  | 38.0                 | 42.0   | 36.0                | 38.0   | 32.0              | 35.0  | 75.0                  | 81.0   | ..                        | ..    | 1.1                     | 0.9   | SE                      | NE    | -             | -     | 3.4                  | 3.9   | 29.0                  | 36.0   |
| 21      | 26.0                 | 34.0  | 39.0                 | 42.0   | 34.0                | 38.0   | 30.0              | 35.0  | 72.0                  | 81.0   | ..                        | ..    | 15.0                    | 8.6   | NE                      | SW    | -             | -     | 3.5                  | 4.0   | 30.0                  | 36.0   |
| 22      | 27.0                 | 36.0  | 38.0                 | 42.0   | 36.0                | 38.0   | 34.0              | 35.0  | 87.0                  | 87.0   | ..                        | ..    | 1.7                     | 4.2   | SW                      | NE    | -             | -     | 3.6                  | 4.0   | 30.0                  | 35.0   |
| 23      | 29.0                 | 35.0  | 38.0                 | 42.0   | 36.0                | 38.0   | 34.0              | 34.0  | 87.0                  | 75.0   | ..                        | ..    | 1.5                     | 4.7   | SW                      | NE    | -             | -     | 3.7                  | 3.9   | 32.0                  | 33.0   |
| 24      | 26.0                 | 34.0  | 38.0                 | 40.0   | 34.0                | 34.0   | 30.0              | 29.0  | 74.0                  | 68.0   | ..                        | ..    | 1.6                     | 4.1   | SW                      | NW    | -             | -     | 3.2                  | 3.8   | 31.0                  | 34.0   |
| 25      | 24.0                 | 31.0  | 33.0                 | 42.0   | 32.0                | 38.0   | 28.0              | 33.0  | 73.0                  | 70.0   | ..                        | ..    | 2.6                     | 5.4   | SE                      | NW    | 1.6           | -     | 1.5                  | 3.7   | 27.0                  | 35.0   |
| 26      | 25.0                 | 33.0  | 38.0                 | 40.0   | 38.0                | 38.0   | 35.0              | 33.0  | 87.0                  | 70.0   | ..                        | ..    | 0.2                     | 4.3   | SW                      | NE    | -             | -     | 3.6                  | 3.9   | 29.0                  | 35.0   |
| 27      | 25.0                 | 33.0  | 41.0                 | 43.0   | 34.0                | 40.0   | 30.0              | 34.0  | 74.0                  | 66.0   | ..                        | ..    | 3.8                     | 3.1   | SW                      | SW    | 2.0           | -     | 1.7                  | 3.8   | 28.0                  | 36.0   |
| 28      | 28.0                 | 34.0  | 41.0                 | 42.0   | 34.0                | 38.0   | 31.0              | 33.0  | 80.0                  | 70.0   | ..                        | ..    | 2.9                     | 9.2   | SW                      | SW    | -             | -     | 3.3                  | 3.9   | 30.0                  | 34.0   |
| 29      | 25.0                 | 28.0  | 37.0                 | 37.0   | 27.0                | 38.0   | 26.0              | 34.0  | 92.0                  | 75.0   | ..                        | ..    | 4.7                     | 18.1  | SW                      | NE    | -             | -     | 6.1                  | 3.8   | 26.0                  | 34.0   |
| 30      | 27.0                 |       | 37.0                 |        | 34.0                |        | 31.0              |       | 80.0                  |        | ..                        |       | 1.2                     |       | SW                      |       | -             |       | 3.2                  |       | 29.0                  |        |
| Total   | 756.0                | 918.0 | 1109.0               | 1194.0 | 970.0               | 1074.0 | 863.0             | 935.0 | 2280.0                | 2126.0 | .. *                      | - *   | 79.2                    | 158.7 |                         |       | 30.6          | -     | 90.1                 | 105.3 | 839.0                 | 1022.0 |
| Average | 25.2                 | 30.6  | 37.0                 | 39.8   | 32.3                | 35.8   | 28.8              | 31.2  | 76.0                  | 70.9   | .. *                      | - *   | 2.6                     | 5.3   |                         |       |               |       |                      |       | 28.0                  | 34.1   |
|         | 27.9                 |       | 38.4                 |        | 34.1                |        | 30.0              |       | 73.4                  |        | 0.0 *                     |       | 4.0                     |       |                         |       | 30.6          |       | 195.4                |       | 31.0                  |        |

## Twice Daily Climatic Data

Station Code : EMF00C3

Local River/Basin : Tel

Station Name : KANTAMAL

Sub-Division : MMSD II,CWC,Burla

-0.0 .. N.A.

| May-18  |                      |        |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|---------|----------------------|--------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|         | Min Temperature (°C) |        | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day     | 08:30                | 17:30  | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM     |                      | 32.0   |                      | 41.0   |                     | 38.0   |                   | 35.0  |                       | 81.0   |                           | ..    |                         | 7.5   |                         | SW    |               | -     |                      | 4.1   |                       | 36.0   |
| 1       | 23.0                 | 31.0   | 40.0                 | 36.0   | 30.0                | 34.0   | 27.0              | 31.0  | 78.0                  | 80.0   | ..                        | ..    | 6.3                     | 6.6   | SW                      | NE    | -             | -     | 2.1                  | 3.7   | 25.0                  | 35.0   |
| 2       | 24.0                 | 31.0   | 33.0                 | 35.0   | 32.0                | 34.0   | 28.0              | 31.0  | 73.0                  | 80.0   | ..                        | ..    | 2.1                     | 2.7   | SW                      | SW    | -             | -     | 3.1                  | 3.8   | 29.0                  | 35.0   |
| 3       | 25.0                 | 30.0   | 40.0                 | 38.0   | 30.0                | 34.0   | 27.0              | 31.0  | 78.0                  | 80.0   | ..                        | ..    | 6.1                     | 5.4   | NE                      | NE    | -             | -     | 3.6                  | 3.9   | 27.0                  | 34.0   |
| 4       | 26.0                 | 31.0   | 39.0                 | 40.0   | 32.0                | 36.0   | 30.0              | 32.0  | 86.0                  | 75.0   | ..                        | ..    | 1.9                     | 7.4   | SW                      | NE    | -             | -     | 3.8                  | 4.0   | 29.0                  | 35.0   |
| 5       | 28.0                 | 31.0   | 39.0                 | 35.0   | 34.0                | 36.0   | 32.0              | 32.0  | 86.0                  | 75.0   | ..                        | ..    | 3.1                     | 6.4   | NE                      | SW    | -             | -     | 3.9                  | 4.1   | 30.0                  | 35.0   |
| 6       | 29.0                 | 35.0   | 40.0                 | 39.0   | 34.0                | 36.0   | 30.0              | 31.0  | 75.0                  | 69.0   | ..                        | ..    | 3.0                     | 6.3   | SW                      | NE    | -             | -     | 3.9                  | 4.2   | 30.0                  | 36.0   |
| 7       | 32.0                 | 35.0   | 40.0                 | 40.0   | 36.0                | 38.0   | 32.0              | 34.0  | 75.0                  | 75.0   | ..                        | ..    | 4.4                     | 7.4   | NE                      | SW    | -             | -     | 4.2                  | 4.1   | 32.0                  | 35.0   |
| 8       | 30.0                 | 36.0   | 41.0                 | 41.0   | 34.0                | 38.0   | 32.0              | 33.0  | 86.0                  | 70.0   | ..                        | ..    | 4.2                     | 4.8   | SW                      | NE    | -             | -     | 4.1                  | 4.2   | 32.0                  | 35.0   |
| 9       | 29.0                 | 35.0   | 40.0                 | 40.0   | 36.0                | 36.0   | 34.0              | 31.0  | 87.0                  | 69.0   | ..                        | ..    | 3.3                     | 4.5   | SW                      | NE    | -             | -     | 4.0                  | 4.0   | 30.0                  | 34.0   |
| 10      | 28.0                 | 36.0   | 41.0                 | 41.0   | 34.0                | 38.0   | 30.0              | 32.0  | 75.0                  | 64.0   | ..                        | ..    | 4.0                     | 4.2   | NE                      | NE    | -             | -     | 3.8                  | 4.1   | 29.0                  | 35.0   |
| 11      | 29.0                 | 30.0   | 41.0                 | 40.0   | 36.0                | 32.0   | 32.0              | 28.0  | 75.0                  | 73.0   | ..                        | ..    | 3.1                     | 5.9   | SW                      | SW    | -             | -     | 3.9                  | 4.0   | 29.0                  | 33.0   |
| 12      | 29.0                 | 35.0   | 40.0                 | 43.0   | 36.0                | 38.0   | 32.0              | 34.0  | 75.0                  | 75.0   | ..                        | ..    | 3.0                     | 5.3   | SW                      | SW    | -             | -     | 3.8                  | 4.2   | 28.0                  | 35.0   |
| 13      | 29.0                 | 36.0   | 39.0                 | 41.0   | 38.0                | 38.0   | 34.0              | 34.0  | 75.0                  | 75.0   | ..                        | ..    | 3.8                     | 9.1   | SW                      | SW    | -             | -     | 4.0                  | 4.3   | 29.0                  | 36.0   |
| 14      | 28.0                 | 34.0   | 38.0                 | 39.0   | 34.0                | 36.0   | 32.0              | 32.0  | 86.0                  | 75.0   | ..                        | ..    | 5.1                     | 7.7   | SW                      | NE    | -             | -     | 3.8                  | 4.2   | 28.0                  | 34.0   |
| 15      | 25.0                 | 31.0   | 37.0                 | 38.0   | 34.0                | 36.0   | 30.0              | 32.0  | 74.0                  | 75.0   | ..                        | ..    | 5.6                     | 3.4   | SW                      | NE    | -             | -     | 3.7                  | 4.0   | 27.0                  | 34.0   |
| 16      | 26.0                 | 33.0   | 37.0                 | 39.0   | 34.0                | 36.0   | 32.0              | 31.0  | 86.0                  | 69.0   | ..                        | ..    | 2.2                     | 5.6   | NE                      | SW    | -             | -     | 3.4                  | 4.1   | 30.0                  | 35.0   |
| 17      | 27.0                 | 33.0   | 40.0                 | 39.0   | 34.0                | 36.0   | 32.0              | 32.0  | 86.0                  | 75.0   | ..                        | ..    | 3.0                     | 5.4   | SW                      | NE    | -             | -     | 3.7                  | 4.2   | 31.0                  | 34.0   |
| 18      | 27.0                 | 32.0   | 41.0                 | 40.0   | 32.0                | 36.0   | 30.0              | 32.0  | 86.0                  | 75.0   | ..                        | ..    | 4.7                     | 6.7   | SW                      | SW    | -             | -     | 3.8                  | 4.2   | 29.0                  | 34.0   |
| 19      | 26.0                 | 32.0   | 40.0                 | 40.0   | 32.0                | 36.0   | 30.0              | 31.0  | 86.0                  | 69.0   | ..                        | ..    | 7.6                     | 3.4   | SW                      | NE    | -             | -     | 3.6                  | 4.1   | 27.0                  | 34.0   |
| 20      | 29.0                 | 31.5   | 41.0                 | 41.0   | 34.0                | 39.0   | 32.0              | 31.0  | 86.0                  | 87.0   | ..                        | ..    | 1.5                     | 9.1   | SW                      | NE    | -             | -     | 3.8                  | 4.2   | 29.0                  | 36.0   |
| 21      | 22.0                 | 29.0   | 41.0                 | 36.0   | 32.0                | 34.0   | 30.0              | 32.0  | 86.0                  | 86.0   | ..                        | ..    | 7.0                     | 4.6   | SW                      | NE    | 27.0          | -     | 1.9                  | 3.5   | 28.0                  | 34.0   |
| 22      | 27.0                 | 32.0   | 36.0                 | 41.0   | 34.0                | 38.0   | 27.0              | 32.0  | 56.0                  | 87.0   | ..                        | ..    | 2.5                     | 4.6   | SW                      | NE    | -             | -     | 2.0                  | 4.6   | 29.0                  | 36.0   |
| 23      | 28.0                 | 31.0   | 40.0                 | 39.0   | 32.0                | 36.0   | 30.0              | 33.0  | 86.0                  | 81.0   | ..                        | ..    | 4.1                     | 3.0   | SW                      | NE    | -             | -     | 3.1                  | 4.0   | 29.0                  | 35.0   |
| 24      | 29.0                 | 32.0   | 37.0                 | 41.0   | 34.0                | 34.0   | 32.0              | 31.0  | 86.0                  | 80.0   | ..                        | ..    | 1.4                     | 8.0   | SW                      | NE    | -             | -     | 4.2                  | 4.2   | 32.0                  | 36.0   |
| 25      | 30.0                 | 36.0   | 36.0                 | 43.0   | 34.0                | 38.0   | 32.0              | 34.0  | 86.0                  | 87.0   | ..                        | ..    | 3.5                     | 5.9   | SW                      | NE    | -             | -     | 4.0                  | 4.8   | 31.0                  | 36.0   |
| 26      | 30.0                 | 36.0   | 39.0                 | 42.0   | 36.0                | 38.0   | 34.0              | 32.0  | 87.0                  | 87.0   | ..                        | ..    | 2.4                     | 4.2   | SW                      | NE    | -             | -     | 5.0                  | 4.8   | 33.0                  | 36.0   |
| 27      | 29.0                 | 34.0   | 40.0                 | 43.0   | 34.0                | 40.0   | 32.0              | 32.0  | 86.0                  | 83.0   | ..                        | ..    | 3.5                     | 5.2   | SW                      | NE    | -             | -     | 4.0                  | 4.6   | 31.0                  | 36.0   |
| 28      | 30.0                 | 36.0   | 40.0                 | 43.0   | 36.0                | 40.0   | 33.0              | 32.0  | 81.0                  | 82.0   | ..                        | ..    | 1.0                     | 5.3   | SW                      | NE    | -             | -     | 4.6                  | 4.8   | 33.0                  | 36.0   |
| 29      | 31.0                 | 34.0   | 42.0                 | 43.0   | 36.0                | 40.0   | 32.0              | 32.0  | 75.0                  | 72.0   | ..                        | ..    | 4.6                     | 8.0   | SW                      | NE    | -             | -     | 4.2                  | 4.8   | 32.0                  | 36.0   |
| 30      | 32.0                 | 33.0   | 42.0                 | 43.0   | 34.0                | 40.0   | 31.0              | 32.0  | 80.0                  | 72.0   | ..                        | ..    | 4.2                     | 5.6   | SW                      | NE    | 0.6           | -     | 3.4                  | 4.7   | 30.0                  | 36.0   |
| 31      | 22.0                 |        | 41.0                 |        | 26.0                |        | 25.0              |       | 92.0                  |        | ..                        |       | 6.8                     |       | SW                      |       | 15.2          |       | 1.3                  |       | 25.0                  |        |
| Total   | 859.0                | 1023.5 | 1221.0               | 1240.0 | 1044.0              | 1139.0 | 956.0             | 992.0 | 2515.0                | 2383.0 | .. *                      | .. *  | 118.7                   | 179.1 |                         |       | 42.8          | -     | 111.7                | 130.5 | 913.0                 | 1087.0 |
| Average | 27.7                 | 33.0   | 39.4                 | 40.0   | 33.7                | 36.7   | 30.8              | 32.0  | 81.1                  | 76.9   | .. *                      | .. *  | 3.8                     | 5.8   |                         |       |               |       |                      |       | 29.5                  | 35.1   |
|         | 30.4                 |        | 39.7                 |        | 35.2                |        | 31.4              |       | 79.0                  |        | 0.0 *                     |       | 4.8                     |       |                         |       | 42.8          |       | 242.2                |       | 32.3                  |        |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| June 2017 |                      |       |                      |          |                     |         |                   |         |                       |          |                           |        |                         |         |                         |       |               |       |                      |        |                       |         |
|-----------|----------------------|-------|----------------------|----------|---------------------|---------|-------------------|---------|-----------------------|----------|---------------------------|--------|-------------------------|---------|-------------------------|-------|---------------|-------|----------------------|--------|-----------------------|---------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |          | Dry Bulb Temp. (°C) |         | Wet Bulb Temp. °C |         | Relative Humidity (%) |          | Inst. Wind Speed (kms/hr) |        | Av. Wind Speed (kms/hr) |         | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |        | Temp - Pan Water (°C) |         |
| Day       | 08:30                | 17:30 | 08:30                | 17:30    | 08:30               | 17:30   | 08:30             | 17:30   | 08:30                 | 17:30    | 08:30                     | 17:30  | 08:30                   | 17:30   | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30  | 08:30                 | 17:30   |
| LPM       |                      |       |                      |          |                     |         |                   |         |                       |          |                           |        |                         |         |                         |       |               |       |                      |        |                       |         |
| 1         | 30.0                 | ..    | ..                   | 42.1     | 32.5                | 32.5    | 28.5              | 28.0    | 50.0                  | 47.0     | -                         | 4.0    | 6.8                     | 4.9     | SSE                     | NNW   | -             | -     | 2.6                  | 4.4    | 31.0                  | 33.0    |
| 2         | 27.5                 | ..    | ..                   | 42.8     | 30.0                | 33.0    | 27.0              | 28.5    | 65.0                  | 50.0     | -                         | 2.0    | 12.8                    | 7.5     | SSE                     | NNE   | -             | -     | 2.4                  | 3.8    | 31.0                  | 34.0    |
| 3         | 28.2                 | ..    | ..                   | 42.8     | 31.0                | 40.0    | 27.5              | 32.0    | 60.0                  | 45.0     | 2.0                       | 6.0    | 8.1                     | 0.3     | NNE                     | NNW   | -             | -     | 2.0                  | 4.0    | 29.5                  | 39.0    |
| 4         | 29.1                 | ..    | ..                   | 46.5     | 32.0                | 43.0    | 28.5              | 35.0    | 58.0                  | 38.0     | -                         | -      | 4.5                     | 0.1     | SSE                     | SSE   | -             | -     | 2.6                  | 4.4    | 30.0                  | 40.0    |
| 5         | 29.6                 | ..    | ..                   | 44.9     | 35.0                | 38.0    | 30.0              | 31.0    | 46.0                  | 39.0     | 4.0                       | 4.0    | 6.6                     | 1.9     | NNE                     | NNE   | -             | -     | 3.2                  | 4.4    | 32.0                  | 37.0    |
| 6         | 26.2                 | ..    | ..                   | 39.7     | 29.5                | 34.5    | 26.5              | 30.0    | 60.0                  | 54.0     | -                         | -      | 15.6                    | 2.6     | WNW                     | SSE   | 17.0          | -     | 2.4                  | 2.2    | 27.0                  | 38.0    |
| 7         | 26.2                 | ..    | ..                   | 35.1     | 28.5                | 32.5    | 26.0              | 29.0    | 69.0                  | 67.0     | -                         | -      | 4.7                     | 1.7     | ESE                     | ESE   | 2.0           | -     | 1.0                  | 2.0    | 27.0                  | 35.0    |
| 8         | 27.9                 | ..    | ..                   | 39.1     | 30.0                | 34.0    | 27.0              | 30.0    | 68.0                  | 62.0     | 2.0                       | -      | 2.6                     | 3.8     | NNE                     | NNE   | -             | -     | 2.0                  | 2.2    | 29.0                  | 35.5    |
| 9         | 27.8                 | ..    | ..                   | 42.8     | 30.0                | 34.0    | 27.0              | 30.0    | 69.0                  | 52.0     | -                         | 4.0    | 5.9                     | 1.0     | ESE                     | ESE   | -             | -     | 2.0                  | 4.0    | 29.0                  | 36.0    |
| 10        | 28.8                 | ..    | ..                   | 39.8     | 30.5                | 32.5    | 27.5              | 29.0    | 66.0                  | 55.0     | -                         | -      | 2.7                     | 1.3     | WNW                     | NNW   | -             | -     | 2.0                  | 3.6    | 29.0                  | 34.0    |
| 11        | 28.4                 | ..    | ..                   | 36.1     | 30.5                | 32.5    | 27.5              | 28.0    | 67.0                  | 54.0     | 9.0                       | -      | 2.6                     | 1.3     | SSE                     | SSE   | -             | -     | 2.0                  | 2.8    | 29.5                  | 33.5    |
| 12        | 28.4                 | ..    | ..                   | 38.8     | 31.0                | 33.0    | 28.0              | 29.0    | 64.0                  | 52.0     | -                         | 4.0    | 12.4                    | 1.5     | SSE                     | SSW   | -             | -     | 2.0                  | 3.0    | 29.5                  | 34.0    |
| 13        | 27.4                 | ..    | ..                   | 35.8     | 30.0                | 32.0    | 27.5              | 29.0    | 72.0                  | 62.0     | 2.0                       | -      | 1.4                     | 0.0     | ESE                     | NNW   | 1.8           | -     | 1.8                  | 2.8    | 29.0                  | 32.0    |
| 14        | 28.2                 | ..    | ..                   | 39.8     | 30.5                | 36.0    | 27.5              | 31.0    | 70.0                  | 54.0     | -                         | -      | 3.8                     | 0.4     | NNE                     | ENE   | -             | -     | 1.8                  | 3.0    | 29.5                  | 34.0    |
| 15        | 27.4                 | ..    | ..                   | 40.8     | 30.5                | 34.0    | 27.5              | 29.0    | 68.0                  | 59.0     | -                         | -      | 0.5                     | 14.9    | SSW                     | WSW   | -             | -     | 1.8                  | 3.0    | 29.5                  | 34.0    |
| 16        | 25.2                 | ..    | ..                   | 35.6     | 27.5                | 32.0    | 26.0              | 29.0    | 71.0                  | 69.0     | 2.0                       | -      | 21.0                    | 12.9    | ESE                     | WSW   | 29.0          | -     | 1.4                  | 2.8    | 26.0                  | 32.0    |
| 17        | 27.1                 | ..    | ..                   | 40.5     | 32.0                | 34.0    | 29.0              | 30.0    | 74.0                  | 62.0     | -                         | 4.0    | 0.9                     | 0.3     | SSE                     | SSE   | -             | -     | 1.6                  | 3.0    | 28.0                  | 30.0    |
| 18        | 27.1                 | ..    | ..                   | 42.4     | 31.0                | 37.0    | 28.0              | 32.0    | 71.0                  | 57.0     | 6.0                       | -      | 3.4                     | 0.2     | ESE                     | SSE   | -             | -     | 1.6                  | 3.4    | 30.0                  | 34.0    |
| 19        | 27.8                 | ..    | ..                   | 34.7     | 30.0                | 34.0    | 27.0              | 30.0    | 65.0                  | 63.0     | -                         | -      | 11.1                    | 1.4     | SSE                     | SSE   | -             | -     | 1.0                  | 2.0    | 28.5                  | 34.0    |
| 20        | 28.2                 | ..    | ..                   | 38.4     | 30.0                | 34.5    | 27.5              | 31.0    | 72.0                  | 62.0     | -                         | -      | 1.3                     | 0.6     | SSE                     | ESE   | -             | -     | 1.0                  | 2.2    | 29.0                  | 37.0    |
| 21        | 27.8                 | ..    | ..                   | 38.4     | 31.0                | 34.0    | 27.5              | 30.5    | 71.0                  | 71.0     | -                         | -      | 13.8                    | 4.6     | SSE                     | NNE   | 33.0          | -     | 0.8                  | 2.2    | 27.5                  | 36.5    |
| 22        | 24.8                 | ..    | ..                   | 30.4     | 26.0                | 28.5    | 25.0              | 27.0    | 75.0                  | 80.0     | -                         | -      | 26.8                    | 5.0     | SSE                     | NNE   | 29.0          | -     | 1.0                  | 2.0    | 25.0                  | 29.5    |
| 23        | 26.8                 | ..    | ..                   | 37.4     | 28.0                | 34.0    | 26.0              | 31.0    | 79.0                  | 69.0     | 4.0                       | -      | 9.8                     | 0.4     | SSE                     | SSE   | -             | -     | 1.2                  | 2.6    | 29.5                  | 30.0    |
| 24        | 26.1                 | ..    | ..                   | 35.1     | 29.5                | 30.0    | 27.5              | 29.0    | 78.0                  | 80.0     | -                         | -      | 1.1                     | 2.0     | SSE                     | ESE   | -             | -     | 1.8                  | 2.4    | 29.5                  | 30.0    |
| 25        | 24.2                 | ..    | ..                   | 30.3     | 27.0                | 28.5    | 25.5              | 26.5    | 75.0                  | 77.0     | 4.0                       | -      | 19.6                    | 21.9    | SSE                     | ESE   | 7.2           | 42.4  | 1.2                  | 1.8    | 26.0                  | 30.0    |
| 26        | 26.3                 | ..    | ..                   | 30.3     | 27.0                | 28.0    | 25.5              | 26.5    | 82.0                  | 82.0     | -                         | -      | 12.1                    | 4.4     | ESE                     | SSE   | 26.4          | -     | 1.0                  | 0.8    | 27.0                  | 29.0    |
| 27        | 26.4                 | ..    | ..                   | 29.7     | 27.5                | 27.5    | 26.5              | 26.5    | 89.0                  | 86.0     | -                         | -      | 0.5                     | 2.2     | ESE                     | SSW   | 0.6           | 2.2   | 0.4                  | 1.8    | 27.5                  | 29.0    |
| 28        | 24.8                 | ..    | ..                   | 31.1     | 27.0                | 28.0    | 26.0              | 27.0    | 87.0                  | 87.0     | -                         | -      | 0.3                     | 2.0     | SSW                     | ESE   | -             | -     | 0.8                  | 1.6    | 26.0                  | 30.5    |
| 29        | 23.8                 | ..    | ..                   | 35.0     | 28.0                | 30.0    | 26.5              | 28.5    | 87.0                  | 81.0     | -                         | -      | 0.7                     | 0.2     | SSW                     | ESE   | -             | -     | 1.0                  | 2.6    | 28.0                  | 34.0    |
| 30        | 27.4                 | ..    | ..                   |          | 30.0                |         | 28.0              |         | 83.0                  |          | 6.0                       |        | 2.6                     |         | NNE                     |       | -             |       | 1.2                  |        | 29.5                  |         |
| Total     | 814.9                | .. *  | .. *                 | 1096.2 * | 893.0               | 961.5 * | 815.0             | 853.0 * | 2111.0                | 1816.0 * | 41.0                      | 28.0 * | 215.9                   | 101.2 * |                         |       | 146.0         | 44.6  | 48.6                 | 80.8 * | 858.5                 | 974.5 * |
| Average   | 27.2                 | .. *  | .. *                 | 37.8 *   | 29.8                | 33.2 *  | 27.2              | 29.4 *  | 70.4                  | 62.6 *   | 1.4                       | 1.0 *  | 7.2                     | 3.5 *   |                         |       |               |       |                      |        | 28.6                  | 33.6 *  |
|           | 13.6 *               |       | 18.9 *               |          | 31.5 *              |         | 28.3 *            |         | 66.5 *                |          | 1.2 *                     |        | 5.3 *                   |         |                         |       | 190.6 *       |       | 129.4 *              |        | 31.1 *                |         |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| July 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|-----------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|           | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day       | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM       |                      | ..    |                      | 35.0   |                     | 30.0  |                   | 29.0  |                       | 79.0   |                           | -     |                         | 1.0   |                         | NNW   |               | ..    |                      | 2.0   |                       | 34.0  |
| 1         | 26.1                 | ..    | ..                   | 30.1   | 27.5                | 28.5  | 25.5              | 27.0  | 82.0                  | 94.0   | -                         | -     | 7.2                     | 3.7   | SSW                     | NNE   | 17.4          | -     | 0.4                  | 1.4   | 27.0                  | 30.0  |
| 2         | 26.3                 | ..    | ..                   | 31.9   | 27.0                | 28.0  | 26.0              | 26.5  | 82.0                  | 87.0   | -                         | 2.0   | 4.7                     | 2.2   | ESE                     | SSW   | -             | 4.4   | 0.6                  | 0.6   | 27.0                  | 30.0  |
| 3         | 26.3                 | ..    | ..                   | 31.9   | 27.5                | 27.5  | 26.5              | 25.5  | 86.0                  | 86.0   | -                         | -     | 0.7                     | 15.0  | SSE                     | NNW   | -             | 3.8   | 0.4                  | 0.4   | 28.0                  | 28.5  |
| 4         | 25.5                 | ..    | ..                   | 32.5   | 27.5                | 28.0  | 26.0              | 27.0  | 90.0                  | 85.0   | -                         | -     | 0.9                     | 2.0   | SSE                     | SSE   | -             | 1.0   | 0.6                  | 1.2   | 27.0                  | 32.0  |
| 5         | 26.0                 | ..    | ..                   | 32.4   | 27.5                | 30.0  | 26.0              | 28.0  | 83.0                  | 82.0   | -                         | -     | 0.9                     | 8.2   | SSW                     | ESE   | -             | -     | 0.8                  | 2.0   | 27.5                  | 32.0  |
| 6         | 26.4                 | ..    | ..                   | 34.5   | 28.5                | 31.0  | 27.0              | 29.5  | 82.0                  | 83.0   | 2.0                       | -     | 7.2                     | 0.3   | ENE                     | NNE   | -             | -     | 1.2                  | 2.0   | 27.5                  | 33.0  |
| 7         | 27.2                 | ..    | ..                   | 35.5   | 28.5                | 31.0  | 27.0              | 30.0  | 79.0                  | 82.0   | -                         | -     | 2.5                     | 0.4   | NNW                     | ESE   | -             | -     | 1.4                  | 2.0   | 28.5                  | 35.0  |
| 8         | 26.5                 | ..    | ..                   | 36.1   | 26.5                | 29.0  | 25.5              | 28.0  | 79.0                  | 77.0   | -                         | -     | 5.0                     | 4.4   | NNE                     | NNW   | 82.0          | -     | 0.4                  | 2.2   | 26.5                  | 35.0  |
| 9         | 25.9                 | ..    | ..                   | 37.8   | 27.5                | 31.0  | 26.5              | 29.5  | 81.0                  | 82.0   | 20.0                      | 2.0   | 7.3                     | 1.7   | ENE                     | ESE   | 2.0           | -     | 1.0                  | 2.0   | 28.0                  | 36.0  |
| 10        | 25.9                 | ..    | ..                   | 37.8   | 28.5                | 28.0  | 27.5              | 27.0  | 81.0                  | 76.0   | 3.0                       | 2.0   | 7.8                     | 4.6   | ESE                     | SSE   | -             | 0.4   | 1.2                  | 1.2   | 28.5                  | 31.0  |
| 11        | 26.8                 | ..    | ..                   | 36.1   | 28.0                | 30.0  | 26.5              | 28.0  | 80.0                  | 71.0   | 2.0                       | 4.0   | 6.4                     | 3.1   | ESE                     | SSE   | -             | -     | 1.0                  | 2.0   | 28.0                  | 32.0  |
| 12        | 26.9                 | ..    | ..                   | 34.4   | 28.5                | 29.0  | 26.0              | 28.0  | 72.0                  | 72.0   | 2.0                       | -     | 8.1                     | 4.6   | SSE                     | SSW   | -             | -     | 1.4                  | 2.0   | 28.0                  | 32.0  |
| 13        | 25.8                 | ..    | ..                   | 34.4   | 28.0                | 30.0  | 26.5              | 28.5  | 81.0                  | 80.0   | -                         | 4.0   | 2.4                     | 2.5   | ESE                     | SSW   | 4.4           | -     | 0.8                  | 2.0   | 28.0                  | 33.0  |
| 14        | 25.4                 | ..    | ..                   | 33.2   | 27.5                | 30.0  | 26.5              | 28.5  | 82.0                  | 79.0   | -                         | 2.0   | 3.1                     | 1.3   | SSE                     | ESE   | 10.6          | -     | 1.0                  | 1.8   | 27.0                  | 33.0  |
| 15        | 25.4                 | ..    | ..                   | 32.1   | 28.0                | 28.0  | 27.0              | 27.5  | 82.0                  | 87.0   | -                         | 2.0   | 1.2                     | 4.2   | ESE                     | SSE   | 1.0           | 4.8   | 1.0                  | 2.0   | 28.0                  | 31.0  |
| 16        | 26.6                 | ..    | ..                   | 32.2   | 28.0                | 28.5  | 27.0              | 27.5  | 82.0                  | 84.0   | 2.0                       | 6.0   | 7.7                     | 5.2   | SSE                     | SSW   | 0.4           | -     | 0.6                  | 1.2   | 27.0                  | 31.5  |
| 17        | 25.7                 | ..    | ..                   | 32.2   | 27.5                | 27.5  | 26.5              | 26.5  | 81.0                  | 92.0   | -                         | -     | 8.3                     | 3.1   | ESE                     | NNW   | 22.0          | 18.6  | 0.8                  | 2.2   | 27.0                  | 29.0  |
| 18        | 26.1                 | ..    | ..                   | 31.8   | 27.0                | 28.5  | 26.0              | 27.0  | 89.0                  | 96.0   | -                         | -     | 0.1                     | 0.8   | WNW                     | SSW   | 25.2          | 21.8  | 0.8                  | 1.8   | 27.0                  | 31.0  |
| 19        | 26.0                 | ..    | ..                   | 32.2   | 28.0                | 27.0  | 27.0              | 26.0  | 90.0                  | 90.0   | -                         | 2.0   | 0.2                     | 3.1   | ESE                     | ENE   | 11.4          | 8.4   | 1.0                  | 0.8   | 28.0                  | 29.0  |
| 20        | 25.8                 | ..    | ..                   | 33.9   | 27.0                | 29.5  | 26.0              | 29.0  | 92.0                  | 89.0   | -                         | -     | 0.4                     | 1.2   | NNE                     | NNW   | 1.2           | -     | 1.2                  | 2.0   | 27.0                  | 33.0  |
| 21        | 27.5                 | ..    | ..                   | 34.7   | 28.0                | 30.5  | 27.0              | 30.0  | 89.0                  | 88.0   | -                         | -     | 0.3                     | 0.8   | NNW                     | SSE   | -             | -     | 1.2                  | 1.6   | 28.5                  | 32.0  |
| 22        | 25.3                 | ..    | ..                   | 32.8   | 28.0                | 30.0  | 27.5              | 29.0  | 90.0                  | 87.0   | -                         | -     | 0.2                     | 6.2   | ESE                     | ESE   | -             | -     | 1.2                  | 1.2   | 29.0                  | 31.0  |
| 23        | 25.8                 | ..    | ..                   | 28.4   | 26.0                | 27.5  | 25.0              | 27.0  | 82.0                  | 88.0   | -                         | -     | 1.7                     | 3.3   | NNW                     | SSW   | 16.4          | 8.2   | 1.0                  | 0.8   | 27.0                  | 27.5  |
| 24        | 25.6                 | ..    | ..                   | 28.9   | 26.0                | 26.0  | 25.5              | 26.0  | 92.0                  | 88.0   | 6.0                       | -     | 0.9                     | 1.8   | SSE                     | SSE   | 6.4           | 0.4   | 0.6                  | 0.8   | 26.5                  | 28.0  |
| 25        | 25.1                 | ..    | ..                   | 30.6   | 26.5                | 28.5  | 25.0              | 27.5  | 88.0                  | 86.0   | 4.0                       | -     | 0.7                     | 0.9   | SSE                     | SSW   | -             | 0.4   | 1.0                  | 1.0   | 27.0                  | 30.0  |
| 26        | 24.9                 | ..    | ..                   | 31.8   | 26.0                | 28.0  | 25.5              | 27.5  | 89.0                  | 92.0   | 2.0                       | -     | 2.7                     | 1.1   | SSE                     | SSE   | 1.8           | -     | 0.8                  | 2.0   | 26.5                  | 30.5  |
| 27        | 26.8                 | ..    | ..                   | 33.6   | 26.0                | 29.0  | 25.0              | 28.0  | 89.0                  | 86.0   | -                         | -     | 0.6                     | 1.2   | ESE                     | NNE   | 9.8           | -     | 1.8                  | 2.0   | 26.0                  | 33.0  |
| 28        | 26.8                 | ..    | ..                   | 37.8   | 28.0                | 31.0  | 26.5              | 30.5  | 87.0                  | 80.0   | 2.0                       | -     | 0.3                     | 1.5   | ESE                     | ESE   | -             | -     | 0.8                  | 2.2   | 27.5                  | 35.0  |
| 29        | 26.8                 | ..    | ..                   | 37.0   | 29.0                | 30.0  | 27.0              | 29.5  | 86.0                  | 80.0   | -                         | -     | 0.3                     | 1.2   | ESE                     | SSW   | -             | -     | 1.2                  | 2.2   | 28.5                  | 29.5  |
| 30        | 27.0                 | ..    | ..                   | 34.6   | 29.0                | 30.5  | 27.5              | 29.5  | 84.0                  | 81.0   | 2.0                       | 2.0   | 0.2                     | 1.2   | ESE                     | SSE   | -             | -     | 1.8                  | 2.0   | 29.0                  | 34.0  |
| 31        | 27.4                 |       | ..                   |        | 29.0                |       | 28.0              |       | 82.0                  |        | 2.0                       |       | 1.6                     |       | SSE                     |       | -             |       | 1.4                  |       | 28.5                  |       |
| Total     | 811.6                | .. *  | .. *                 | 1038.2 | 855.5               | 901.0 | 818.0             | 868.0 | 2614.0                | 2609.0 | 49.0                      | 28.0  | 91.3                    | 91.8  |                         |       | 212.0         | 72.2  | 30.4                 | 50.6  | 854.5                 | 981.5 |
| Average   | 26.2                 | .. *  | .. *                 | 33.5   | 27.6                | 29.1  | 26.4              | 28.0  | 84.3                  | 84.2   | 1.6                       | 0.9   | 2.9                     | 3.0   |                         |       |               |       |                      |       | 27.6                  | 31.7  |
|           | 13.1 *               |       | 16.7 *               |        | 28.3                |       | 27.2              |       | 84.2                  |        | 1.2                       |       | 3.0                     |       |                         |       | 284.2 *       |       | 81.0                 |       | 29.6                  |       |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| August 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|-------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|             | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day         | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM         |                      | ..    |                      | 37.9   |                     | 30.0  |                   | 29.0  |                       | 73.0   |                           | -     |                         | 3.4   |                         | SSE   |               | ..    |                      | 2.2   |                       | 33.0   |
| 1           | 27.1                 | ..    | ..                   | 34.9   | 28.5                | 28.0  | 27.5              | 27.5  | 84.0                  | 85.0   | -                         | -     | 0.9                     | 7.5   | ESE                     | SSW   | 0.4           | 4.4   | 1.6                  | 2.2   | 28.0                  | 29.0   |
| 2           | 27.6                 | ..    | ..                   | 35.8   | 28.5                | 27.5  | 26.5              | 26.5  | 86.0                  | 85.0   | -                         | -     | 1.8                     | 2.3   | SSW                     | SSW   | -             | 8.2   | 1.2                  | 1.6   | 28.0                  | 32.0   |
| 3           | 26.5                 | ..    | ..                   | 35.2   | 27.5                | 29.5  | 27.5              | 27.5  | 90.0                  | 78.0   | -                         | 2.0   | 2.9                     | 3.3   | NNW                     | NNW   | 4.2           | -     | 0.6                  | 2.0   | 27.5                  | 33.0   |
| 4           | 26.5                 | ..    | ..                   | 35.2   | 28.0                | 28.0  | 26.5              | 27.0  | 86.0                  | 81.0   | -                         | -     | 1.1                     | 2.4   | SSE                     | WNW   | -             | 4.0   | 1.2                  | 1.4   | 28.0                  | 32.0   |
| 5           | 26.5                 | ..    | ..                   | 33.8   | 27.5                | 29.0  | 26.0              | 28.0  | 87.0                  | 87.0   | -                         | -     | 0.5                     | 1.2   | SSE                     | ESE   | 1.8           | -     | 0.4                  | 1.2   | 28.0                  | 32.0   |
| 6           | 26.5                 | ..    | ..                   | 36.2   | 28.0                | 30.0  | 26.5              | 28.5  | 87.0                  | 84.0   | -                         | -     | 0.2                     | 1.7   | SSW                     | NNW   | 0.4           | 0.6   | 0.8                  | 1.0   | 28.0                  | 35.0   |
| 7           | 26.0                 | ..    | ..                   | 34.5   | 28.5                | 28.5  | 27.0              | 27.5  | 87.0                  | 86.0   | -                         | -     | 0.4                     | 1.1   | NNW                     | SSE   | 3.6           | -     | 1.4                  | 1.0   | 28.0                  | 32.0   |
| 8           | 26.8                 | ..    | ..                   | 36.5   | 28.0                | 31.0  | 27.0              | 29.0  | 89.0                  | 87.0   | -                         | -     | 0.1                     | 0.7   | ESE                     | ENE   | -             | 0.8   | 1.0                  | 1.8   | 28.0                  | 35.5   |
| 9           | 27.1                 | ..    | ..                   | 36.4   | 27.5                | 29.5  | 26.5              | 28.5  | 85.0                  | 84.0   | -                         | -     | 0.3                     | 2.8   | ESE                     | WNW   | 9.6           | 10.6  | 1.4                  | 2.0   | 28.0                  | 34.5   |
| 10          | 26.2                 | ..    | ..                   | 32.1   | 28.0                | 29.0  | 26.5              | 27.5  | 87.0                  | 82.0   | -                         | -     | 0.4                     | 2.6   | WNW                     | ENE   | -             | 0.4   | 1.4                  | 1.8   | 28.0                  | 32.5   |
| 11          | 25.9                 | ..    | ..                   | 36.1   | 28.0                | 31.0  | 27.0              | 29.5  | 85.0                  | 89.0   | -                         | -     | 0.8                     | 1.1   | ENE                     | ESE   | -             | -     | 1.6                  | 2.6   | 28.0                  | 36.0   |
| 12          | 26.5                 | ..    | ..                   | 33.5   | 29.0                | 28.5  | 27.0              | 27.5  | 86.0                  | 87.0   | -                         | 0.6   | 0.2                     | 2.4   | ESE                     | SSE   | -             | 0.6   | 1.0                  | 2.0   | 28.5                  | 31.5   |
| 13          | 25.9                 | ..    | ..                   | 35.2   | 28.0                | 31.0  | 27.0              | 29.0  | 82.0                  | 87.0   | -                         | -     | 0.3                     | 1.0   | ESE                     | ESE   | -             | -     | 0.8                  | 2.4   | 28.0                  | 35.5   |
| 14          | 26.1                 | ..    | ..                   | 31.9   | 26.5                | 30.0  | 25.0              | 28.0  | 79.0                  | 80.0   | 1.4                       | -     | 4.3                     | 2.8   | ESE                     | ESE   | 1.4           | -     | 0.4                  | 2.8   | 27.0                  | 34.5   |
| 15          | 25.8                 | ..    | ..                   | 33.6   | 28.0                | 29.5  | 26.5              | 28.0  | 83.0                  | 84.0   | -                         | -     | 0.8                     | 2.3   | NE                      | ESE   | -             | -     | 1.0                  | 2.8   | 28.0                  | 33.0   |
| 16          | 26.5                 | ..    | ..                   | 34.4   | 28.5                | 30.0  | 27.0              | 28.0  | 83.0                  | 81.0   | 2.0                       | -     | 1.5                     | 3.4   | NE                      | ESE   | 0.4           | -     | 0.6                  | 2.8   | 28.0                  | 33.0   |
| 17          | 23.2                 | ..    | ..                   | 31.4   | 27.0                | 28.0  | 25.5              | 27.0  | 77.0                  | 82.0   | 4.0                       | 2.0   | 6.6                     | 3.4   | ESE                     | NNW   | -             | 4.6   | 1.0                  | 0.6   | 27.5                  | 30.0   |
| 18          | 25.8                 | ..    | ..                   | 31.0   | 27.0                | 28.0  | 26.0              | 27.0  | 84.0                  | 87.0   | -                         | -     | 4.5                     | 0.6   | ESE                     | SSE   | 3.8           | 1.6   | 1.2                  | 1.6   | 27.0                  | 30.0   |
| 19          | 25.2                 | ..    | ..                   | 32.9   | 27.5                | 28.0  | 26.0              | 27.5  | 87.0                  | 84.0   | 2.0                       | -     | 0.9                     | 5.3   | WNW                     | SSE   | 10.8          | 10.8  | 1.0                  | 1.4   | 27.0                  | 31.0   |
| 20          | 25.7                 | ..    | ..                   | 33.5   | 27.0                | 28.0  | 26.0              | 27.0  | 87.0                  | 80.0   | 2.0                       | 2.0   | 4.7                     | 3.4   | NW                      | SSW   | 3.8           | 5.4   | 1.8                  | 1.4   | 27.0                  | 33.0   |
| 21          | 25.8                 | ..    | ..                   | 37.5   | 27.5                | 32.5  | 26.0              | 30.0  | 87.0                  | 74.0   | -                         | 2.0   | 0.6                     | 1.2   | ESE                     | NNE   | -             | -     | 1.8                  | 2.0   | 27.0                  | 36.0   |
| 22          | 25.5                 | ..    | ..                   | 31.1   | 27.0                | 30.0  | 26.0              | 28.5  | 82.0                  | 84.0   | -                         | 4.0   | 0.7                     | 1.3   | SSW                     | ESE   | -             | 2.8   | 1.2                  | 1.4   | 27.0                  | 32.0   |
| 23          | 26.2                 | ..    | ..                   | 34.8   | 28.0                | 27.5  | 27.0              | 26.5  | 89.0                  | 81.0   | -                         | -     | 0.0                     | 2.3   | ESE                     | WNW   | -             | 18.2  | 1.2                  | 2.4   | 28.0                  | 30.5   |
| 24          | 25.5                 | ..    | ..                   | 35.2   | 27.0                | 29.0  | 26.0              | 28.0  | 87.0                  | 85.0   | -                         | -     | 0.5                     | 2.7   | SSW                     | WSW   | -             | -     | 1.2                  | 2.0   | 27.0                  | 33.5   |
| 25          | 25.9                 | ..    | ..                   | 32.9   | 27.0                | 29.0  | 26.0              | 27.0  | 87.0                  | 85.0   | -                         | -     | 1.1                     | 0.8   | NNE                     | ESE   | 4.4           | -     | 0.8                  | 2.0   | 27.0                  | 32.0   |
| 26          | 25.4                 | ..    | ..                   | 36.9   | 27.0                | 30.0  | 26.0              | 29.0  | 86.0                  | 83.0   | -                         | -     | 0.1                     | 0.5   | ESE                     | ESE   | 5.8           | -     | 1.0                  | 2.2   | 27.0                  | 36.0   |
| 27          | 25.0                 | ..    | ..                   | 32.7   | 27.0                | 28.5  | 26.0              | 27.0  | 87.0                  | 86.0   | -                         | 2.0   | 0.1                     | 0.5   | ESE                     | WNW   | -             | 12.0  | 1.0                  | 2.0   | 26.5                  | 31.0   |
| 28          | 26.2                 | ..    | ..                   | 32.7   | 27.0                | 28.0  | 26.0              | 26.5  | 88.0                  | 87.0   | -                         | 4.0   | 0.1                     | 1.0   | WNW                     | SSW   | 12.0          | 7.8   | 1.4                  | 1.6   | 27.0                  | 31.5   |
| 29          | 26.0                 | ..    | ..                   | 30.2   | 26.0                | 27.5  | 25.0              | 26.5  | 90.0                  | 89.0   | -                         | 2.0   | 3.3                     | 1.7   | SSW                     | SSW   | 2.2           | 0.6   | -                    | 1.0   | 26.0                  | 29.5   |
| 30          | 25.7                 | ..    | ..                   | 34.4   | 27.0                | 29.5  | 26.0              | 28.5  | 90.0                  | 88.0   | -                         | -     | 0.9                     | 0.7   | NE                      | ESE   | -             | -     | 1.0                  | 0.8   | 27.0                  | 34.0   |
| 31          | 25.9                 | ..    | ..                   |        | 28.0                |       | 26.5              |       | 89.0                  |        | -                         |       | 0.2                     |       | ESE                     |       | -             |       | 1.2                  |       | 28.0                  |        |
| Total       | 806.5                | .. *  | .. *                 | 1060.4 | 855.0               | 903.5 | 817.0             | 862.5 | 2663.0                | 2595.0 | 11.4                      | 20.6  | 41.0                    | 67.4  |                         |       | 64.6          | 93.4  | 33.2                 | 56.0  | 853.0                 | 1014.0 |
| Average     | 26.0                 | .. *  | .. *                 | 34.2   | 27.6                | 29.1  | 26.4              | 27.8  | 85.9                  | 83.7   | 0.4                       | 0.7   | 1.3                     | 2.2   |                         |       |               |       |                      |       | 27.5                  | 32.7   |
|             | 13.0 *               |       | 17.1 *               |        | 28.4                |       | 27.1              |       | 84.8                  |        | 0.5                       |       | 1.7                     |       |                         |       | 158.0 *       |       | 89.2                 |       | 30.1                  |        |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| September 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|----------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|                | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day            | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM            |                      | ..    |                      | 36.8   |                     | 30.0  |                   | 28.0  |                       | 77.0   |                           | 4.0   |                         | 1.0   |                         | ESE   |               | -     |                      | 2.8   |                       | 36.0   |
| 1              | 25.9                 | ..    | ..                   | 36.5   | 28.0                | 26.0  | 26.5              | 25.0  | 85.0                  | 75.0   | -                         | 8.0   | 0.3                     | 4.7   | ESE                     | WNW   | -             | 31.6  | 1.2                  | 2.8   | 28.0                  | 31.5   |
| 2              | 25.5                 | ..    | ..                   | 29.5   | 26.5                | 26.0  | 25.5              | 25.0  | 83.0                  | 83.0   | -                         | -     | 0.4                     | 0.9   | NNE                     | NNE   | 6.6           | 31.2  | 1.4                  | 2.6   | 26.5                  | 27.0   |
| 3              | 24.9                 | ..    | ..                   | 35.9   | 26.0                | 30.5  | 25.0              | 29.0  | 88.0                  | 84.0   | 2.0                       | -     | 0.4                     | 0.9   | NW                      | ESE   | 0.6           | -     | 1.0                  | 3.0   | 26.0                  | 38.0   |
| 4              | 24.9                 | ..    | ..                   | 37.2   | 27.0                | 32.0  | 26.0              | 30.0  | 85.0                  | 72.0   | -                         | -     | 0.3                     | 1.4   | ESE                     | NNW   | -             | -     | 1.2                  | 3.0   | 27.5                  | 36.5   |
| 5              | 26.5                 | ..    | ..                   | 36.3   | 28.0                | 32.0  | 27.0              | 29.0  | 81.0                  | 75.0   | -                         | -     | 0.2                     | 0.5   | WNW                     | SSW   | -             | -     | 1.6                  | 2.8   | 28.0                  | 36.0   |
| 6              | 26.5                 | ..    | ..                   | 37.0   | 29.0                | 31.5  | 27.0              | 30.5  | 74.0                  | 79.0   | -                         | -     | 0.2                     | 0.4   | ENE                     | ESE   | -             | -     | 1.6                  | 3.0   | 29.0                  | 37.0   |
| 7              | 26.4                 | ..    | ..                   | 37.0   | 29.0                | 31.5  | 27.5              | 29.5  | 72.0                  | 80.0   | -                         | -     | 0.2                     | 0.9   | WNW                     | ENE   | -             | -     | 1.6                  | 2.8   | 27.5                  | 36.5   |
| 8              | 26.4                 | ..    | ..                   | 37.9   | 28.0                | 30.0  | 27.0              | 28.5  | 79.0                  | 76.0   | -                         | -     | 0.2                     | 0.3   | ESE                     | SSE   | -             | -     | 1.4                  | 2.0   | 28.0                  | 36.0   |
| 9              | 26.5                 | ..    | ..                   | 37.9   | 28.0                | 28.0  | 26.5              | 27.0  | 79.0                  | 77.0   | -                         | -     | 0.1                     | 1.2   | ENE                     | SSW   | -             | 10.0  | 1.4                  | 1.8   | 28.0                  | 36.5   |
| 10             | 26.1                 | ..    | ..                   | 36.1   | 28.0                | 28.0  | 27.0              | 27.0  | 84.0                  | 78.0   | -                         | -     | 0.3                     | 4.7   | ESE                     | NNW   | 0.4           | 0.4   | 1.6                  | 2.0   | 28.0                  | 35.0   |
| 11             | 26.1                 | ..    | ..                   | 35.4   | 28.0                | 30.0  | 27.0              | 29.0  | 86.0                  | 89.0   | -                         | -     | 0.2                     | 0.4   | SSW                     | SSW   | 1.6           | -     | 0.8                  | 2.0   | 28.0                  | 33.5   |
| 12             | 23.2                 | ..    | ..                   | 34.6   | 28.0                | 29.0  | 27.0              | 28.0  | 87.0                  | 81.0   | -                         | -     | 0.1                     | 1.5   | WNW                     | SSE   | -             | -     | 1.2                  | 2.0   | 28.0                  | 33.0   |
| 13             | 25.8                 | ..    | ..                   | 36.2   | 28.0                | 31.5  | 26.5              | 29.5  | 82.0                  | 75.0   | -                         | -     | 3.4                     | 2.3   | ESE                     | ESE   | -             | -     | 1.2                  | 2.0   | 28.0                  | 35.0   |
| 14             | 25.8                 | ..    | ..                   | 36.4   | 28.0                | 31.0  | 26.5              | 28.5  | 80.0                  | 72.0   | 4.0                       | -     | 1.1                     | 1.0   | ESE                     | ESE   | 0.6           | -     | 0.8                  | 2.8   | 27.5                  | 36.0   |
| 15             | 26.9                 | ..    | ..                   | 36.4   | 28.5                | 31.5  | 26.5              | 29.0  | 74.0                  | 68.0   | 6.0                       | -     | 1.0                     | 0.6   | SSE                     | SSE   | -             | -     | 1.2                  | 3.0   | 28.0                  | 35.5   |
| 16             | 27.3                 | ..    | ..                   | 35.8   | 29.5                | 31.0  | 28.0              | 29.0  | 78.0                  | 77.0   | -                         | -     | 0.4                     | 0.5   | SSW                     | ESE   | -             | -     | 1.8                  | 2.6   | 28.0                  | 34.5   |
| 17             | 27.5                 | ..    | ..                   | 35.4   | 29.0                | 29.5  | 27.0              | 28.0  | 79.0                  | 77.0   | 2.0                       | 2.0   | 0.9                     | 1.6   | ESE                     | SSE   | -             | 1.6   | 1.8                  | 2.0   | 28.0                  | 33.0   |
| 18             | 26.3                 | ..    | ..                   | 35.4   | 28.0                | 26.0  | 26.0              | 24.0  | 81.0                  | 76.0   | 2.0                       | -     | 3.2                     | 6.1   | SSE                     | ENE   | -             | 10.0  | 1.0                  | 2.0   | 27.0                  | 25.0   |
| 19             | 25.1                 | ..    | ..                   | 31.1   | 26.0                | 27.5  | 25.0              | 26.5  | 87.0                  | 86.0   | 4.0                       | -     | 8.6                     | 3.4   | ESE                     | WSW   | 33.8          | 0.4   | 1.8                  | 2.2   | 26.0                  | 29.0   |
| 20             | 25.8                 | ..    | ..                   | 32.4   | 27.0                | 29.0  | 26.0              | 27.5  | 89.0                  | 84.0   | -                         | 2.0   | 1.2                     | 2.3   | WNW                     | SSW   | 8.2           | -     | 1.0                  | 2.0   | 26.0                  | 32.0   |
| 21             | 25.8                 | ..    | ..                   | 33.3   | 28.0                | 29.5  | 26.5              | 27.5  | 89.0                  | 86.0   | -                         | -     | 0.6                     | 0.2   | NE                      | SSW   | -             | -     | 1.4                  | 2.2   | 26.0                  | 31.0   |
| 22             | 25.7                 | ..    | ..                   | 36.5   | 27.0                | 29.0  | 26.0              | 28.0  | 89.0                  | 83.0   | -                         | -     | 0.2                     | 0.2   | ESE                     | ESE   | -             | -     | 1.4                  | 2.6   | 26.5                  | 34.5   |
| 23             | 26.2                 | ..    | ..                   | 36.6   | 28.0                | 31.0  | 26.5              | 29.0  | 88.0                  | 78.0   | 2.0                       | -     | 0.2                     | 0.6   | ESE                     | ESE   | -             | -     | 1.6                  | 2.8   | 27.0                  | 34.0   |
| 24             | 21.3                 | ..    | ..                   | 37.4   | 27.5                | 31.0  | 26.5              | 29.0  | 82.0                  | 74.0   | -                         | 2.0   | 0.1                     | 1.5   | SSW                     | WNW   | -             | 2.0   | 1.4                  | 2.8   | 26.0                  | 34.0   |
| 25             | 21.0                 | ..    | ..                   | 35.1   | 28.0                | 30.0  | 26.5              | 28.6  | 82.0                  | 72.0   | -                         | -     | 0.1                     | 1.7   | ESE                     | SSW   | -             | -     | 1.6                  | 2.6   | 26.0                  | 32.0   |
| 26             | 26.0                 | ..    | ..                   | 34.9   | 28.0                | 28.0  | 26.5              | 26.5  | 82.0                  | 79.0   | -                         | -     | 0.7                     | 2.2   | ESE                     | SSE   | 9.0           | 1.2   | 1.4                  | 1.2   | 26.5                  | 31.0   |
| 27             | 25.4                 | ..    | ..                   | 34.4   | 27.0                | 29.5  | 26.0              | 28.5  | 82.0                  | 82.0   | -                         | -     | 0.3                     | 0.7   | SSW                     | SSE   | -             | -     | 1.6                  | 2.2   | 26.0                  | 31.5   |
| 28             | 25.3                 | ..    | ..                   | 35.6   | 27.0                | 28.0  | 26.0              | 26.0  | 84.0                  | 76.0   | -                         | 4.0   | 0.6                     | 0.9   | ESE                     | SSW   | -             | 15.8  | 1.4                  | 3.0   | 26.0                  | 29.0   |
| 29             | 25.8                 | ..    | ..                   | 33.7   | 27.0                | 28.0  | 26.0              | 25.0  | 84.0                  | 82.0   | -                         | -     | 0.2                     | 0.4   | ESE                     | ESE   | 2.2           | 2.6   | 1.2                  | 2.6   | 26.0                  | 31.0   |
| 30             | 25.8                 | ..    | ..                   |        | 27.0                |       | 26.0              |       | 85.0                  |        | 2.0                       |       | 0.1                     |       | ESE                     |       | 0.2           |       | 1.0                  |       | 26.0                  |        |
| Total          | 767.7                | .. *  | .. *                 | 1064.7 | 832.0               | 885.5 | 793.0             | 835.6 | 2480.0                | 2353.0 | 24.0                      | 22.0  | 25.6                    | 45.1  |                         |       | 63.2          | 106.8 | 40.6                 | 73.2  | 813.0                 | 1000.5 |
| Average        | 25.6                 | .. *  | .. *                 | 35.5   | 27.7                | 29.5  | 26.4              | 27.9  | 82.7                  | 78.4   | 0.8                       | 0.7   | 0.9                     | 1.5   |                         |       |               |       |                      |       | 27.1                  | 33.4   |
|                | 12.8 *               |       | 17.7 *               |        | 28.6                |       | 27.1              |       | 80.6                  |        | 0.8                       |       | 1.2                     |       |                         |       | 170.0         |       | 113.8                |       | 30.2                  |        |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| October 2017 |                      |       |                      |        |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|-------|----------------------|--------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM          |                      | ..    |                      | 31.9   |                     | 27.0  |                   | 26.0  |                       | 87.0   |                           | -     |                         | 0.6   |                         | ESE   |               | 1.2   |                      | 2.2   |                       | 28.0  |
| 1            | 26.2                 | ..    | ..                   | 32.9   | 27.0                | 28.0  | 26.0              | 27.0  | 87.0                  | 87.0   | -                         | -     | 0.1                     | 0.5   | SSW                     | ESE   | -             | -     | 1.0                  | 1.6   | 26.5                  | 31.0  |
| 2            | 23.0                 | ..    | ..                   | 32.2   | 27.0                | 28.0  | 25.5              | 26.0  | 87.0                  | 84.0   | -                         | -     | 0.6                     | 0.8   | WNW                     | SSW   | 4.6           | -     | 1.2                  | 1.4   | 25.0                  | 30.5  |
| 3            | 21.0                 | ..    | ..                   | 32.8   | 27.0                | 28.5  | 25.5              | 27.0  | 87.0                  | 86.0   | -                         | -     | 0.3                     | 0.4   | SSE                     | ESE   | -             | -     | 0.8                  | 1.6   | 24.0                  | 30.5  |
| 4            | 22.1                 | ..    | ..                   | 33.8   | 27.5                | 28.0  | 26.0              | 26.5  | 87.0                  | 85.0   | -                         | -     | 0.9                     | 0.5   | NE                      | SSW   | -             | 10.4  | 1.0                  | 1.0   | 24.5                  | 29.0  |
| 5            | 20.3                 | ..    | ..                   | 33.8   | 27.0                | 29.0  | 25.5              | 27.0  | 85.0                  | 79.0   | -                         | 2.0   | 0.1                     | 0.4   | SSW                     | ESE   | -             | -     | 1.2                  | 1.8   | 24.5                  | 30.0  |
| 6            | 20.3                 | ..    | ..                   | 29.9   | 27.5                | 26.5  | 26.0              | 25.5  | 83.0                  | 87.0   | -                         | -     | 0.1                     | 0.3   | ESE                     | ENE   | -             | 8.8   | 1.2                  | 0.8   | 24.5                  | 26.0  |
| 7            | 22.0                 | ..    | ..                   | 34.4   | 26.5                | 29.5  | 25.0              | 27.5  | 88.0                  | 85.0   | -                         | -     | 0.9                     | 0.3   | NNE                     | ESE   | -             | -     | 1.0                  | 1.6   | 24.0                  | 31.0  |
| 8            | 22.6                 | ..    | ..                   | 28.8   | 27.0                | 26.5  | 25.5              | 25.0  | 86.0                  | 87.0   | -                         | -     | 0.2                     | 5.0   | ESE                     | SSE   | 4.0           | 3.2   | 1.2                  | 0.4   | 24.0                  | 27.5  |
| 9            | 23.6                 | ..    | ..                   | 31.6   | 27.0                | 27.5  | 25.5              | 26.0  | 88.0                  | 91.0   | 8.0                       | -     | 0.5                     | 2.0   | ESE                     | SSW   | -             | 12.2  | 1.2                  | 1.0   | 24.0                  | 27.0  |
| 10           | 24.0                 | ..    | ..                   | 33.6   | 26.5                | 28.5  | 25.0              | 26.0  | 92.0                  | 86.0   | -                         | -     | 0.3                     | 1.9   | ESE                     | ESE   | 8.0           | -     | 1.2                  | 1.8   | 24.5                  | 30.0  |
| 11           | 26.4                 | ..    | ..                   | 33.5   | 27.5                | 28.5  | 26.0              | 27.5  | 88.0                  | 86.0   | -                         | 8.4   | 0.2                     | 0.2   | ESE                     | ESE   | -             | 3.2   | 1.0                  | 1.2   | 27.0                  | 29.0  |
| 12           | 24.6                 | ..    | ..                   | 33.7   | 27.0                | 28.5  | 25.5              | 27.0  | 87.0                  | 84.0   | -                         | -     | 0.5                     | 0.3   | ESE                     | ESE   | 0.2           | -     | 1.0                  | 2.0   | 26.5                  | 31.0  |
| 13           | 25.4                 | ..    | ..                   | 34.4   | 27.5                | 30.0  | 26.0              | 28.0  | 86.0                  | 81.0   | -                         | -     | 0.1                     | 0.3   | NNE                     | NNW   | -             | -     | 1.2                  | 2.0   | 27.0                  | 31.5  |
| 14           | 23.3                 | ..    | ..                   | 34.5   | 27.5                | 28.5  | 26.0              | 27.0  | 84.0                  | 82.0   | -                         | -     | 0.0                     | 0.7   | SSE                     | NNE   | -             | 11.8  | 1.4                  | 2.4   | 28.0                  | 32.5  |
| 15           | 24.8                 | ..    | ..                   | 34.0   | 26.0                | 29.0  | 24.5              | 27.0  | 85.0                  | 85.0   | -                         | -     | 0.8                     | 0.7   | ESE                     | ESE   | 22.8          | -     | 0.8                  | 1.4   | 26.5                  | 33.0  |
| 16           | 24.5                 | ..    | ..                   | 33.7   | 26.0                | 30.0  | 25.0              | 28.0  | 86.0                  | 81.0   | 12.0                      | -     | 0.2                     | 2.0   | ESE                     | SSW   | -             | -     | 1.0                  | 1.4   | 26.5                  | 32.5  |
| 17           | 23.2                 | ..    | ..                   | 34.8   | 26.0                | 28.0  | 25.0              | 26.0  | 84.0                  | 79.0   | -                         | -     | 0.1                     | 0.5   | SSE                     | SSW   | -             | -     | 1.0                  | 1.2   | 26.5                  | 32.5  |
| 18           | 21.9                 | ..    | ..                   | 32.2   | 25.0                | 27.5  | 23.0              | 25.5  | 76.0                  | 79.0   | -                         | -     | 0.3                     | 0.2   | SSW                     | SSW   | -             | -     | 1.2                  | 1.2   | 26.0                  | 30.0  |
| 19           | 25.5                 | ..    | ..                   | 28.5   | 26.5                | 28.0  | 25.5              | 26.0  | 89.0                  | 76.0   | -                         | -     | 0.1                     | 0.1   | SSW                     | SSE   | 10.2          | 10.2  | 0.6                  | 1.4   | 26.0                  | 28.0  |
| 20           | 25.0                 | ..    | ..                   | 29.9   | 26.0                | 25.0  | 25.0              | 24.0  | 91.0                  | 97.0   | 8.0                       | 10.0  | 1.8                     | 7.4   | ESE                     | SSE   | 10.4          | 45.2  | 0.6                  | 1.2   | 26.0                  | 28.0  |
| 21           | 25.0                 | ..    | ..                   | 32.2   | 26.5                | 28.0  | 25.0              | 26.0  | 92.0                  | 84.0   | 12.0                      | -     | 2.9                     | 1.2   | ENE                     | ENE   | 7.0           | -     | 1.0                  | 1.4   | 26.0                  | 32.0  |
| 22           | 23.4                 | ..    | ..                   | 33.8   | 25.0                | 28.0  | 24.0              | 27.0  | 85.0                  | 86.0   | -                         | -     | 0.3                     | 0.6   | ESE                     | ESE   | -             | -     | 0.8                  | 1.6   | 24.5                  | 32.0  |
| 23           | 22.7                 | ..    | ..                   | 33.6   | 25.5                | 28.5  | 24.0              | 26.5  | 85.0                  | 80.0   | -                         | -     | 0.0                     | 0.6   | ESE                     | SSE   | -             | -     | 1.0                  | 1.6   | 26.0                  | 32.5  |
| 24           | 24.1                 | ..    | ..                   | 33.8   | 25.0                | 28.5  | 24.0              | 27.0  | 82.0                  | 80.0   | -                         | -     | 0.3                     | 0.3   | ESE                     | ESE   | -             | -     | 1.2                  | 1.8   | 26.0                  | 32.5  |
| 25           | 23.7                 | ..    | ..                   | 31.0   | 25.0                | 29.0  | 23.5              | 27.0  | 80.0                  | 76.0   | -                         | -     | 0.0                     | 0.2   | ESE                     | ESE   | -             | -     | 1.2                  | 1.8   | 25.0                  | 30.0  |
| 26           | 23.9                 | ..    | ..                   | 34.0   | 25.0                | 28.0  | 24.0              | 26.0  | 80.0                  | 72.0   | -                         | -     | 0.6                     | 0.0   | NNE                     | NNE   | -             | -     | 1.2                  | 2.0   | 26.0                  | 33.0  |
| 27           | 23.0                 | ..    | ..                   | 34.0   | 25.0                | 27.0  | 23.0              | 25.0  | 76.0                  | 70.0   | -                         | -     | 0.2                     | 0.2   | NNE                     | NNW   | -             | -     | 1.6                  | 2.0   | 26.0                  | 33.0  |
| 28           | 22.1                 | ..    | ..                   | 32.6   | 24.5                | 26.0  | 23.0              | 24.0  | 77.0                  | 68.0   | -                         | -     | 0.0                     | 0.1   | ESE                     | SSE   | -             | -     | 1.2                  | 1.8   | 25.5                  | 32.0  |
| 29           | 20.2                 | ..    | ..                   | 31.9   | 23.0                | 26.0  | 21.0              | 29.0  | 75.0                  | 71.0   | -                         | -     | 0.7                     | 1.4   | SSW                     | SSE   | -             | -     | 1.0                  | 1.6   | 25.0                  | 31.0  |
| 30           | 19.8                 | ..    | ..                   | 31.2   | 23.0                | 26.0  | 21.0              | 33.5  | 75.0                  | 70.0   | -                         | -     | 0.2                     | 1.2   | WNW                     | SSW   | -             | -     | 1.0                  | 1.6   | 23.0                  | 30.0  |
| 31           | 18.8                 | ..    | ..                   |        | 21.5                |       | 20.0              |       | 69.0                  |        | -                         |       | 0.7                     |       | WNW                     |       | -             |       | 1.0                  |       | 21.5                  |       |
| Total        | 716.4                | .. *  | .. *                 | 1013.0 | 804.0               | 865.0 | 759.5             | 826.5 | 2602.0                | 2531.0 | 40.0                      | 20.4  | 13.7                    | 30.9  |                         |       | 67.2          | 106.2 | 33.0                 | 47.8  | 786.0                 | 946.5 |
| Average      | 23.1                 | .. *  | .. *                 | 32.7   | 25.9                | 27.9  | 24.5              | 26.7  | 83.9                  | 81.6   | 1.3                       | 0.7   | 0.4                     | 1.0   |                         |       |               |       |                      |       | 25.4                  | 30.5  |
|              | 11.6 *               |       | 16.3 *               |        | 26.9                |       | 25.6              |       | 82.8                  |        | 1.0                       |       | 0.7                     |       |                         |       | 173.4         |       | 80.8                 |       | 27.9                  |       |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| November 2017 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | ..    |                      | 31.5  |                     | 26.0  |                   | 23.0  |                       | 71.0   |                           | -     |                         | 0.2   |                         | SSE   |               | ..    |                      | 1.4   |                       | 30.0  |
| 1             | 20.0                 | ..    | ..                   | 31.8  | 22.5                | 26.5  | 21.0              | 24.5  | 70.0                  | 75.0   | -                         | -     | 0.1                     | 0.2   | ESE                     | ESE   | -             | -     | 1.0                  | 1.4   | 22.0                  | 31.0  |
| 2             | 20.8                 | ..    | ..                   | 31.9  | 22.0                | 26.0  | 20.5              | 23.0  | 72.0                  | 74.0   | -                         | -     | 0.1                     | 0.0   | ESE                     | SSW   | -             | -     | 0.8                  | 1.4   | 21.5                  | 31.0  |
| 3             | 18.6                 | ..    | ..                   | 31.2  | 21.5                | 26.0  | 20.0              | 23.0  | 71.0                  | 70.0   | -                         | -     | 0.1                     | 0.5   | ESE                     | SSW   | -             | -     | 0.8                  | 1.4   | 20.0                  | 30.5  |
| 4             | 17.9                 | ..    | ..                   | 31.7  | 20.5                | 26.0  | 19.0              | 23.5  | 68.0                  | 74.0   | -                         | -     | 0.1                     | 0.4   | ESE                     | NNW   | -             | -     | 0.8                  | 1.4   | 20.0                  | 31.0  |
| 5             | 17.9                 | ..    | ..                   | 32.6  | 23.0                | 26.0  | 21.5              | 23.0  | 72.0                  | 73.0   | 4.0                       | -     | 0.0                     | 0.4   | ESE                     | NNW   | -             | -     | 1.2                  | 1.0   | 21.0                  | 32.0  |
| 6             | 17.6                 | ..    | ..                   | 32.6  | 23.0                | 27.0  | 21.0              | 24.0  | 71.0                  | 71.0   | -                         | -     | 0.2                     | 0.7   | NNE                     | SSE   | -             | -     | 1.2                  | 1.2   | 20.0                  | 32.0  |
| 7             | 17.2                 | ..    | ..                   | 32.4  | 22.5                | 26.0  | 21.0              | 23.5  | 72.0                  | 69.0   | -                         | -     | 0.1                     | 0.2   | SSE                     | NNE   | -             | -     | 1.2                  | 1.6   | 20.0                  | 32.0  |
| 8             | 18.4                 | ..    | ..                   | 33.1  | 21.5                | 26.0  | 20.0              | 23.0  | 67.0                  | 67.0   | -                         | -     | 0.1                     | 0.7   | NNE                     | ESE   | -             | -     | 1.2                  | 1.6   | 20.0                  | 31.5  |
| 9             | 18.0                 | ..    | ..                   | 31.4  | 21.0                | 25.0  | 19.0              | 23.0  | 67.0                  | 71.0   | -                         | -     | 0.6                     | 1.0   | NNE                     | ENE   | -             | -     | 1.0                  | 1.6   | 20.0                  | 31.0  |
| 10            | 17.1                 | ..    | ..                   | 30.8  | 19.5                | 24.0  | 17.5              | 21.5  | 67.0                  | 67.0   | -                         | -     | 0.2                     | 1.3   | NNE                     | SSE   | -             | -     | 1.2                  | 1.6   | 19.0                  | 30.0  |
| 11            | 16.2                 | ..    | ..                   | 29.8  | 20.0                | 24.0  | 18.5              | 21.0  | 69.0                  | 67.0   | -                         | 4.0   | 0.3                     | 2.0   | SSE                     | SSE   | -             | -     | 1.2                  | 1.6   | 19.0                  | 28.5  |
| 12            | 16.4                 | ..    | ..                   | 31.0  | 19.5                | 25.0  | 18.0              | 22.5  | 70.0                  | 75.0   | 4.0                       | -     | 0.8                     | 5.6   | SSW                     | ESE   | -             | -     | 0.8                  | 1.6   | 18.5                  | 29.5  |
| 13            | 19.2                 | ..    | ..                   | 32.1  | 21.5                | 26.0  | 20.0              | 23.0  | 75.0                  | 75.0   | -                         | -     | 0.1                     | 0.2   | ESE                     | NNE   | -             | -     | 1.0                  | 1.6   | 21.0                  | 30.0  |
| 14            | 20.2                 | ..    | ..                   | 28.5  | 22.0                | 24.0  | 21.0              | 22.0  | 74.0                  | 73.0   | -                         | -     | 0.7                     | 0.4   | NNE                     | SSW   | -             | -     | 1.0                  | 1.2   | 22.0                  | 27.0  |
| 15            | 21.8                 | ..    | ..                   | 23.9  | 22.5                | 22.5  | 21.0              | 21.5  | 80.0                  | 86.0   | -                         | -     | 0.1                     | 2.0   | SSW                     | SSW   | -             | 18.2  | 1.0                  | 0.6   | 22.5                  | 23.0  |
| 16            | 22.2                 | ..    | ..                   | 25.0  | 22.0                | 23.0  | 21.0              | 22.0  | 88.0                  | 93.0   | -                         | -     | 0.1                     | 0.5   | SSW                     | SSW   | 10.4          | 5.2   | 0.6                  | 0.8   | 22.0                  | 24.0  |
| 17            | 22.4                 | ..    | ..                   | 27.0  | 23.0                | 24.5  | 21.0              | 23.5  | 92.0                  | 86.0   | -                         | -     | 0.2                     | 2.9   | ESE                     | SSE   | 0.4           | 2.4   | 0.8                  | 0.8   | 23.0                  | 26.5  |
| 18            | 22.4                 | ..    | ..                   | 28.0  | 25.0                | 25.5  | 23.0              | 24.5  | 94.0                  | 96.0   | -                         | -     | 0.2                     | 0.4   | ESE                     | NNE   | 0.4           | -     | 1.0                  | 1.2   | 23.0                  | 26.5  |
| 19            | 23.5                 | ..    | ..                   | 28.2  | 24.5                | 26.0  | 23.5              | 25.0  | 94.0                  | 94.0   | -                         | -     | 0.2                     | 0.2   | NNE                     | SSE   | 6.0           | -     | 1.0                  | 1.2   | 25.0                  | 26.5  |
| 20            | 23.2                 | ..    | ..                   | 30.8  | 24.0                | 26.0  | 22.0              | 24.5  | 89.0                  | 90.0   | -                         | -     | 0.4                     | 2.0   | NNE                     | SSW   | -             | -     | 1.2                  | 1.4   | 25.0                  | 29.5  |
| 21            | 22.4                 | ..    | ..                   | 31.0  | 23.0                | 26.0  | 21.0              | 24.0  | 84.0                  | 86.0   | -                         | -     | 0.1                     | 0.2   | ENE                     | SSW   | -             | -     | 1.0                  | 1.2   | 23.5                  | 29.5  |
| 22            | 19.0                 | ..    | ..                   | 29.8  | 21.0                | 24.0  | 20.0              | 22.5  | 76.0                  | 78.0   | -                         | -     | 0.1                     | 0.3   | ESE                     | SSE   | -             | -     | 0.8                  | 2.0   | 21.0                  | 29.5  |
| 23            | 18.7                 | ..    | ..                   | 29.4  | 20.0                | 23.0  | 19.0              | 21.0  | 76.0                  | 71.0   | -                         | -     | 0.1                     | 0.2   | SSE                     | ESE   | -             | -     | 0.8                  | 1.4   | 20.5                  | 29.0  |
| 24            | 16.0                 | ..    | ..                   | 28.0  | 18.5                | 23.0  | 17.5              | 21.0  | 70.0                  | 70.0   | -                         | -     | 0.1                     | 0.6   | SSE                     | SSE   | -             | -     | 0.8                  | 1.6   | 17.0                  | 27.5  |
| 25            | 15.2                 | ..    | ..                   | 28.2  | 17.5                | 22.5  | 16.0              | 20.5  | 69.0                  | 70.0   | -                         | -     | 0.1                     | 1.2   | ESE                     | WNW   | -             | -     | 0.6                  | 1.4   | 19.0                  | 28.0  |
| 26            | 14.1                 | ..    | ..                   | 28.3  | 16.5                | 21.5  | 15.0              | 19.5  | 66.0                  | 73.0   | -                         | -     | 0.1                     | 0.4   | WNW                     | NNW   | -             | -     | 0.6                  | 1.4   | 16.0                  | 28.0  |
| 27            | 14.6                 | ..    | ..                   | 27.7  | 17.0                | 22.0  | 16.0              | 18.5  | 72.0                  | 72.0   | -                         | 2.0   | 0.1                     | 4.3   | ESE                     | NNE   | -             | -     | 0.6                  | 1.6   | 17.0                  | 27.5  |
| 28            | 13.8                 | ..    | ..                   | 28.6  | 16.5                | 21.5  | 15.0              | 18.5  | 68.0                  | 61.0   | -                         | -     | 0.1                     | 2.4   | NNE                     | ENE   | -             | -     | 0.6                  | 1.4   | 16.0                  | 27.0  |
| 29            | 13.2                 | ..    | ..                   | 28.7  | 16.0                | 21.5  | 14.5              | 19.5  | 65.0                  | 67.0   | -                         | -     | 0.1                     | 0.3   | ESE                     | NNE   | -             | -     | 0.6                  | 1.0   | 15.5                  | 27.0  |
| 30            | 13.2                 |       | ..                   |       | 16.0                |       | 14.0              |       | 65.0                  |        | -                         |       | 0.1                     |       | ENE                     |       | -             |       | 0.6                  |       | 15.5                  |       |
| Total         | 551.2                | .. *  | .. *                 | 895.0 | 623.0               | 736.0 | 577.5             | 669.5 | 2233.0                | 2265.0 | 8.0                       | 6.0   | 5.5                     | 31.6  |                         |       | 17.2          | 25.8  | 27.0                 | 40.6  | 605.5                 | 866.0 |
| Average       | 18.4                 | .. *  | .. *                 | 29.8  | 20.8                | 24.5  | 19.3              | 22.3  | 74.4                  | 75.5   | 0.3                       | 0.2   | 0.2                     | 1.1   |                         |       |               |       |                      |       | 20.2                  | 28.9  |
|               | 9.2 *                |       | 14.9 *               |       | 22.7                |       | 20.8              |       | 75.0                  |        | 0.2                       |       | 0.6                     |       |                         |       | 43.0 *        |       | 67.6                 |       | 24.5                  |       |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| December 2017 |                      |         |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|---------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |         | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30   | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPOPM         |                      | ..      |                      | 28.1  |                     | 21.5  |                   | 19.5  |                       | 68.0   |                           | -     |                         | 1.1   |                         | ESE   |               | -     |                      | 1.0   |                       | 27.0  |
| 1             | 13.0                 | 14.5    | 20.5                 | 27.5  | 16.0                | 20.0  | 14.0              | 17.5  | 69.0                  | 74.0   | -                         | -     | 0.0                     | 0.3   | ESE                     | NNE   | -             | -     | 0.6                  | 1.0   | 15.5                  | 27.0  |
| 2             | 12.0                 | 14.5    | 20.0                 | 27.0  | 15.0                | 20.0  | 13.0              | 17.0  | 63.0                  | 69.0   | -                         | -     | 0.0                     | 0.4   | NNE                     | NNE   | -             | -     | 0.8                  | 0.8   | 15.0                  | 26.0  |
| 3             | 11.0                 | 14.0    | 19.5                 | 27.0  | 15.0                | 20.0  | 14.5              | 16.5  | 63.0                  | 73.0   | -                         | -     | 0.1                     | 0.4   | ENE                     | ESE   | -             | -     | 0.6                  | 0.8   | 14.5                  | 26.0  |
| 4             | 11.0                 | 12.0    | 19.0                 | 27.0  | 13.0                | 21.0  | 12.0              | 18.0  | 65.0                  | 73.0   | -                         | -     | -                       | 0.7   | ESE                     | SSW   | -             | -     | 0.6                  | 0.8   | 14.0                  | 26.0  |
| 5             | 11.5                 | 13.5    | 20.0                 | 26.5  | 15.0                | 20.5  | 14.0              | 18.0  | 67.0                  | 77.0   | -                         | -     | 0.0                     | 0.3   | NNE                     | ENE   | -             | -     | 0.6                  | 0.8   | 14.0                  | 25.5  |
| 6             | 12.0                 | 13.5    | 20.0                 | 26.0  | 15.0                | 21.5  | 14.0              | 19.0  | 68.0                  | 79.0   | -                         | -     | 0.2                     | 0.2   | NNE                     | NNE   | -             | -     | 0.6                  | 0.8   | 14.0                  | 25.5  |
| 7             | 12.0                 | 13.0    | 21.0                 | 26.0  | 14.0                | 20.0  | 13.0              | 18.0  | 66.0                  | 75.0   | -                         | -     | -                       | 2.8   | NNE                     | WNW   | -             | -     | 0.6                  | 0.8   | 15.0                  | 24.0  |
| 8             | 13.0                 | 17.5    | 20.0                 | 22.0  | 18.0                | 21.0  | 16.0              | 19.0  | 78.0                  | 84.0   | -                         | -     | 0.7                     | 1.1   | WNW                     | ENE   | -             | -     | 1.0                  | 0.8   | 17.0                  | 21.5  |
| 9             | 17.5                 | 21.0    | 22.0                 | 25.0  | 21.0                | 23.5  | 19.0              | 20.0  | 80.0                  | 75.0   | 14.0                      | -     | 4.1                     | 7.1   | SSW                     | SSW   | -             | -     | 0.4                  | 0.8   | 20.5                  | 25.0  |
| 10            | 18.5                 | 21.5    | 22.0                 | 29.0  | 21.0                | 23.0  | 18.5              | 20.0  | 72.0                  | 69.0   | 20.0                      | -     | 5.1                     | 6.8   | ESE                     | NNE   | -             | -     | 0.6                  | 0.8   | 21.0                  | 29.0  |
| 11            | 19.0                 | 18.0    | 23.0                 | 29.0  | 17.0                | 24.0  | 17.0              | 21.0  | 74.0                  | 72.0   | -                         | -     | 0.3                     | 0.4   | NNE                     | SSW   | -             | -     | 0.6                  | 0.8   | 19.0                  | 28.5  |
| 12            | 16.0                 | 17.5    | 24.0                 | 29.0  | 18.0                | 23.0  | 17.0              | 20.5  | 76.0                  | 71.0   | -                         | -     | 0.4                     | 0.5   | ESE                     | ESE   | -             | -     | 0.6                  | 0.8   | 18.5                  | 29.0  |
| 13            | 15.5                 | 17.0    | 23.0                 | 29.0  | 18.0                | 23.5  | 17.0              | 21.0  | 70.0                  | 76.0   | -                         | -     | 0.1                     | 0.6   | ESE                     | ESE   | -             | -     | 0.6                  | 0.8   | 18.0                  | 28.0  |
| 14            | 15.0                 | 17.0    | 24.0                 | 29.5  | 18.0                | 23.5  | 17.0              | 21.5  | 71.0                  | 74.0   | -                         | -     | 0.2                     | 0.5   | ESE                     | ESE   | -             | -     | 0.8                  | 0.8   | 18.5                  | 28.5  |
| 15            | 14.0                 | 16.0    | 29.0                 | 28.0  | 17.0                | 22.5  | 16.0              | 20.0  | 69.0                  | 74.0   | 7.0                       | -     | 0.7                     | 1.7   | ESE                     | ESE   | -             | -     | 1.0                  | 0.8   | 17.5                  | 28.0  |
| 16            | 14.0                 | 15.5    | 23.0                 | 28.0  | 16.0                | 21.5  | 15.0              | 19.0  | 69.0                  | 68.0   | -                         | -     | 0.7                     | 1.5   | NNE                     | NNE   | -             | -     | 1.2                  | 0.8   | 17.0                  | 27.0  |
| 17            | 14.0                 | 15.0    | 22.0                 | 28.0  | 16.5                | 22.0  | 15.5              | 19.5  | 66.0                  | 67.0   | -                         | -     | 0.5                     | 2.4   | NNE                     | ESE   | -             | -     | 1.0                  | 0.6   | 17.0                  | 27.0  |
| 18            | 14.0                 | 15.0    | 22.0                 | 27.0  | 15.0                | 20.0  | 14.0              | 16.0  | 65.0                  | 54.0   | -                         | 6.0   | 0.2                     | 1.7   | NNE                     | SSW   | -             | -     | 1.0                  | 1.0   | 16.0                  | 26.5  |
| 19            | 9.5                  | 10.0    | 20.0                 | 25.0  | 11.0                | 18.5  | 10.0              | 16.0  | 57.0                  | 68.0   | -                         | -     | 0.3                     | 0.7   | SSW                     | ESE   | -             | -     | 0.8                  | 1.0   | 12.0                  | 24.0  |
| 20            | 9.0                  | 11.0    | 20.0                 | 26.0  | 12.0                | 20.0  | 11.0              | 17.5  | 62.0                  | 68.0   | -                         | -     | 0.1                     | 0.0   | ESE                     | ESE   | -             | -     | 0.6                  | 1.0   | 12.5                  | 24.5  |
| 21            | 11.0                 | 13.0    | 20.0                 | 27.0  | 14.0                | 20.5  | 13.0              | 18.5  | 68.0                  | 76.0   | -                         | -     | 0.1                     | 0.4   | NNE                     | ESE   | -             | -     | 0.8                  | 1.0   | 13.5                  | 25.0  |
| 22            | 12.0                 | 15.0    | 26.0                 | 26.5  | 16.5                | 21.5  | 15.0              | 19.5  | 69.0                  | 75.0   | -                         | -     | 0.1                     | 3.3   | NNE                     | SSE   | -             | -     | 0.8                  | 1.0   | 14.5                  | 26.5  |
| 23            | 14.0                 | 14.5    | 22.0                 | 27.0  | 15.5                | 22.0  | 14.5              | 20.0  | 68.0                  | 80.0   | -                         | -     | 0.4                     | 3.1   | SSE                     | SSE   | -             | -     | 0.6                  | 0.8   | 16.5                  | 25.5  |
| 24            | 14.5                 | 16.0    | 21.5                 | 27.0  | 16.5                | 22.5  | 15.0              | 20.0  | 70.0                  | 77.0   | -                         | -     | 1.1                     | 0.1   | SSE                     | NNW   | -             | -     | 0.8                  | 0.8   | 17.0                  | 26.5  |
| 25            | 14.0                 | 15.0    | 23.0                 | 27.0  | 16.0                | 22.5  | 15.0              | 20.0  | 69.0                  | 74.0   | -                         | -     | 0.8                     | 0.8   | NNE                     | ENE   | -             | -     | 0.6                  | 0.8   | 17.0                  | 27.0  |
| 26            | 12.5                 | 14.0    | 19.0                 | 22.0  | 15.0                | 21.0  | 14.0              | 16.5  | 69.0                  | 60.0   | -                         | 2.0   | 1.1                     | 1.6   | NNE                     | NNW   | -             | -     | 0.6                  | 0.8   | 17.0                  | 21.0  |
| 27            | 9.5                  | 12.0    | 18.0                 | 21.0  | 12.0                | 18.0  | 11.0              | 15.0  | 60.0                  | 59.0   | -                         | 6.0   | 0.1                     | 13.4  | NNE                     | NNW   | -             | -     | 0.6                  | 0.8   | 13.0                  | 20.5  |
| 28            | 9.0                  | 11.5    | 18.0                 | 21.0  | 12.0                | 17.5  | 11.0              | 15.0  | 60.0                  | 63.0   | -                         | -     | 0.5                     | 0.5   | NNW                     | NNW   | -             | -     | 0.8                  | 0.8   | 11.5                  | 20.0  |
| 29            | 9.0                  | 10.5    | 20.0                 | 27.0  | 11.5                | 20.0  | 10.0              | 17.5  | 62.0                  | 70.0   | -                         | -     | 0.1                     | 0.4   | NNW                     | ESE   | -             | -     | 1.2                  | 0.8   | 13.0                  | 25.5  |
| 30            | 9.5                  | 11.5    | 21.0                 | 28.5  | 12.5                | 21.0  | 11.5              | 17.5  | 64.0                  | 64.0   | -                         | -     | 0.0                     | 0.5   | ESE                     | ESE   | -             | -     | 1.4                  | 1.0   | 13.5                  | 26.0  |
| 31            | 10.0                 |         | 21.5                 |       | 13.5                |       | 12.5              |       | 67.0                  |        | -                         |       | 0.2                     |       | ENE                     |       | -             |       | 1.2                  |       | 14.0                  |       |
| Total         | 396.5                | 440.0 * | 664.0                | 823.6 | 476.5               | 657.0 | 440.0             | 574.0 | 2096.0                | 2206.0 | 41.0                      | 14.0  | 18.3                    | 55.0  |                         |       | -             | -     | 24.0                 | 26.2  | 487.0                 | 797.0 |
| Average       | 12.8                 | 14.7 *  | 21.4                 | 26.6  | 15.4                | 21.2  | 14.2              | 18.5  | 67.6                  | 71.2   | 1.3                       | 0.5   | 0.6                     | 1.8   |                         |       |               |       |                      |       | 15.7                  | 25.7  |
|               | 13.7 *               |         | 24.0                 |       | 18.3                |       | 16.4              |       | 69.4                  |        | 0.9                       |       | 1.2                     |       |                         |       | 0.0           |       | 50.2                 |       | 20.7                  |       |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| January 2018 |                      |        |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|--------------|----------------------|--------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|              | Min Temperature (°C) |        | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day          | 08:30                | 17:30  | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM          |                      | 11.5   |                      | 28.0  |                     | 21.0  |                   | 18.0  |                       | 68.0   |                           | -     |                         | 0.3   |                         | NNE   |               | -     |                      | 1.0   |                       | 25.5  |
| 1            | 13.0                 | ..     | ..                   | 27.0  | 16.0                | 22.0  | 15.0              | 19.5  | 70.0                  | 72.0   | -                         | -     | 0.5                     | 0.4   | ENE                     | NNW   | -             | -     | 1.0                  | 0.8   | 16.5                  | 26.0  |
| 2            | 11.0                 | ..     | ..                   | 26.5  | 13.0                | 20.0  | 12.5              | 16.5  | 68.0                  | 75.0   | -                         | -     | 0.8                     | 1.3   | SSE                     | NNW   | -             | -     | 1.0                  | 1.0   | 15.5                  | 25.5  |
| 3            | 10.0                 | ..     | ..                   | 26.0  | 13.0                | 20.0  | 11.5              | 16.5  | 63.0                  | 64.0   | -                         | -     | 0.8                     | 2.1   | ESE                     | ENE   | -             | -     | 1.0                  | 1.0   | 14.0                  | 25.0  |
| 4            | 9.0                  | ..     | ..                   | 26.0  | 12.0                | 19.0  | 11.0              | 16.0  | 61.0                  | 62.0   | -                         | -     | 1.0                     | 2.3   | NNE                     | ENE   | -             | -     | 1.0                  | 1.2   | 13.0                  | 25.0  |
| 5            | 8.0                  | ..     | ..                   | 26.0  | 10.5                | 18.5  | 9.5               | 14.5  | 61.0                  | 54.0   | -                         | -     | 0.2                     | 3.6   | ENE                     | ESE   | -             | -     | 1.2                  | 1.0   | 12.5                  | 24.5  |
| 6            | 7.0                  | ..     | ..                   | 26.0  | 10.5                | 19.5  | 9.5               | 15.5  | 59.0                  | 55.0   | -                         | 8.0   | 0.2                     | 10.7  | ESE                     | SSE   | -             | -     | 1.0                  | 0.8   | 11.5                  | 24.0  |
| 7            | 7.5                  | ..     | ..                   | 27.0  | 10.5                | 19.0  | 9.5               | 15.5  | 57.0                  | 58.0   | -                         | 8.0   | 1.8                     | 2.9   | ESE                     | NNE   | -             | -     | 1.8                  | 0.8   | 11.0                  | 24.0  |
| 8            | 8.5                  | ..     | ..                   | 27.0  | 10.5                | 19.0  | 10.0              | 15.5  | 60.0                  | 57.0   | -                         | 2.0   | 1.8                     | 1.8   | SSE                     | ESE   | -             | -     | 1.4                  | 1.0   | 12.0                  | 24.5  |
| 9            | 7.5                  | ..     | ..                   | 26.0  | 10.5                | 20.5  | 9.5               | 16.5  | 59.0                  | 51.0   | -                         | -     | 1.0                     | 2.6   | ENE                     | ESE   | -             | -     | 1.2                  | 1.0   | 11.5                  | 25.0  |
| 10           | 7.0                  | ..     | ..                   | 26.0  | 12.0                | 19.0  | 11.0              | 14.5  | 57.0                  | 50.0   | -                         | -     | 0.7                     | 14.3  | ESE                     | SSE   | -             | -     | 1.2                  | 1.0   | 11.0                  | 24.0  |
| 11           | 8.0                  | ..     | ..                   | 28.0  | 11.0                | 20.0  | 10.0              | 15.5  | 58.0                  | 50.0   | -                         | -     | 0.3                     | 3.8   | ESE                     | SSE   | -             | -     | 1.2                  | 0.8   | 11.5                  | 24.5  |
| 12           | 8.5                  | ..     | ..                   | 28.5  | 11.5                | 19.5  | 10.5              | 15.5  | 59.0                  | 50.0   | -                         | 10.0  | 0.5                     | 5.9   | SSE                     | SSE   | -             | -     | 1.2                  | 1.4   | 12.5                  | 25.5  |
| 13           | 8.5                  | ..     | ..                   | 28.0  | 11.5                | 20.5  | 10.5              | 16.0  | 57.0                  | 51.0   | -                         | -     | 0.3                     | 11.4  | ESE                     | ENE   | -             | -     | 1.4                  | 1.0   | 12.5                  | 25.0  |
| 14           | 10.0                 | ..     | ..                   | 28.0  | 14.5                | 20.0  | 12.5              | 16.0  | 60.0                  | 55.0   | -                         | -     | 0.2                     | 1.2   | ENE                     | ENE   | -             | -     | 1.4                  | 1.2   | 12.5                  | 26.0  |
| 15           | 10.0                 | ..     | ..                   | 28.5  | 12.0                | 21.0  | 11.0              | 16.0  | 62.0                  | 47.0   | -                         | 8.0   | 0.4                     | 3.3   | ESE                     | ESE   | -             | -     | 1.4                  | 1.2   | 13.0                  | 26.0  |
| 16           | 9.5                  | ..     | ..                   | 28.5  | 11.5                | 20.0  | 10.5              | 15.0  | 56.0                  | 45.0   | -                         | 14.0  | 0.7                     | 10.7  | ESE                     | ENE   | -             | -     | 1.4                  | 1.4   | 12.0                  | 26.0  |
| 17           | 8.0                  | ..     | ..                   | 28.0  | 12.0                | 20.5  | 10.5              | 16.0  | 57.0                  | 47.0   | -                         | -     | 0.8                     | 9.1   | ENE                     | ESE   | -             | -     | 1.4                  | 1.4   | 12.0                  | 25.0  |
| 18           | 6.5                  | ..     | ..                   | 28.5  | 10.0                | 19.5  | 9.0               | 15.0  | 54.0                  | 45.0   | -                         | -     | 0.3                     | 1.3   | ESE                     | ESE   | -             | -     | 1.4                  | 1.4   | 11.0                  | 25.0  |
| 19           | 6.5                  | ..     | ..                   | 28.5  | 10.0                | 20.5  | 9.0               | 15.0  | 56.0                  | 51.0   | -                         | -     | 0.7                     | 5.2   | ESE                     | ENE   | -             | -     | 1.6                  | 1.6   | 11.5                  | 25.5  |
| 20           | 6.5                  | ..     | ..                   | 29.0  | 10.5                | 20.0  | 9.5               | 15.5  | 55.0                  | 52.0   | -                         | 7.0   | 0.2                     | 1.2   | ENE                     | SSE   | -             | -     | 1.6                  | 1.4   | 11.5                  | 25.5  |
| 21           | 8.0                  | ..     | ..                   | 28.5  | 11.0                | 21.0  | 10.0              | 17.0  | 57.0                  | 58.0   | -                         | -     | 0.5                     | 1.1   | SSE                     | ESE   | -             | -     | 1.6                  | 1.4   | 13.0                  | 26.0  |
| 22           | 9.0                  | ..     | ..                   | 28.5  | 12.5                | 22.0  | 11.0              | 18.0  | 62.0                  | 60.0   | -                         | -     | 0.1                     | 9.3   | ESE                     | ESE   | -             | -     | 1.6                  | 1.4   | 13.0                  | 26.0  |
| 23           | 10.5                 | ..     | ..                   | 29.0  | 12.5                | 22.5  | 11.5              | 18.0  | 62.0                  | 54.0   | -                         | -     | 0.1                     | 0.5   | ESE                     | ENE   | -             | -     | 1.6                  | 1.4   | 14.0                  | 27.0  |
| 24           | 11.5                 | ..     | ..                   | 29.0  | 14.0                | 22.5  | 13.0              | 18.5  | 62.0                  | 57.0   | -                         | -     | 1.8                     | 0.8   | ENE                     | SSW   | -             | -     | 1.6                  | 1.4   | 14.5                  | 27.0  |
| 25           | 13.0                 | ..     | ..                   | 29.5  | 16.0                | 21.5  | 15.0              | 17.0  | 65.0                  | 50.0   | -                         | -     | 2.4                     | 1.1   | SSE                     | SSE   | -             | -     | 1.4                  | 1.4   | 15.5                  | 27.5  |
| 26           | 9.5                  | ..     | ..                   | 29.5  | 14.0                | 20.5  | 12.5              | 16.5  | 64.0                  | 49.0   | -                         | 4.0   | 0.5                     | 1.1   | ESE                     | ESE   | -             | -     | 1.4                  | 1.4   | 14.0                  | 27.0  |
| 27           | 9.0                  | ..     | ..                   | 28.5  | 12.5                | 21.0  | 11.0              | 16.5  | 58.0                  | 47.0   | -                         | -     | 0.5                     | 0.1   | ESE                     | WNW   | -             | -     | 1.4                  | 1.4   | 13.5                  | 26.0  |
| 28           | 7.5                  | ..     | ..                   | 29.0  | 11.5                | 20.0  | 10.0              | 15.5  | 50.0                  | 48.0   | -                         | -     | 0.1                     | 2.2   | WNW                     | ESE   | -             | -     | 1.8                  | 1.4   | 11.0                  | 28.5  |
| 29           | 7.5                  | ..     | ..                   | 29.0  | 10.5                | 20.0  | 10.0              | 15.0  | 56.0                  | 45.0   | -                         | -     | 0.6                     | 8.4   | ESE                     | NNW   | -             | -     | 1.4                  | 1.4   | 12.0                  | 26.0  |
| 30           | 7.5                  | ..     | ..                   | 29.0  | 11.5                | 23.0  | 10.5              | 17.0  | 55.0                  | 45.0   | -                         | 4.0   | 1.2                     | 6.4   | NNW                     | SSE   | -             | -     | 1.4                  | 1.4   | 12.0                  | 26.5  |
| 31           | 8.0                  |        | ..                   |       | 11.0                |       | 10.0              |       | 54.0                  |        | -                         |       | 1.6                     |       | SSE                     |       | -             |       | 1.6                  |       | 12.0                  |       |
| Total        | 271.5                | 11.5 * | .. *                 | 864.5 | 370.0               | 633.0 | 336.5             | 503.0 | 1834.0                | 1672.0 | -                         | 65.0  | 22.4                    | 126.5 |                         |       | -             | -     | 42.6                 | 37.4  | 393.0                 | 794.5 |
| Average      | 8.8                  | 11.5 * | .. *                 | 27.9  | 11.9                | 20.4  | 10.9              | 16.2  | 59.2                  | 53.9   | -                         | 2.1   | 0.7                     | 4.1   |                         |       |               |       |                      |       | 12.7                  | 25.6  |
|              | 10.1 *               |        | 13.9 *               |       | 16.2                |       | 13.5              |       | 56.5                  |        | 1.0                       |       | 2.4                     |       |                         |       | 0.0           |       | 80.0                 |       | 19.2                  |       |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| February 2018 |                      |       |                      |       |                     |       |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |       |
|---------------|----------------------|-------|----------------------|-------|---------------------|-------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|-------|
|               | Min Temperature (°C) |       | Max Temperature (°C) |       | Dry Bulb Temp. (°C) |       | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |       |
| Day           | 08:30                | 17:30 | 08:30                | 17:30 | 08:30               | 17:30 | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30 |
| LPM           |                      | ..    |                      | 29.5  |                     | 24.5  |                   | 17.0  |                       | 41.0   |                           | 20.0  |                         | 0.9   |                         | SSW   |               | -     |                      | 1.8   |                       | 28.0  |
| 1             | 9.0                  | ..    | ..                   | 29.5  | 12.0                | 25.5  | 11.0              | 17.5  | 53.0                  | 41.0   | -                         | 6.0   | 2.2                     | 4.1   | WNW                     | NNW   | -             | -     | 1.8                  | 1.8   | 13.0                  | 27.0  |
| 2             | 8.5                  | ..    | ..                   | 32.0  | 12.0                | 22.0  | 11.0              | 17.0  | 52.0                  | 44.0   | -                         | -     | 1.2                     | 0.6   | NNW                     | ESE   | -             | -     | 1.8                  | 1.8   | 13.0                  | 27.5  |
| 3             | 9.5                  | ..    | ..                   | 32.0  | 12.5                | 26.0  | 11.5              | 20.0  | 52.0                  | 46.0   | -                         | -     | 0.4                     | 0.4   | NNW                     | NNE   | -             | -     | 1.8                  | 1.8   | 13.5                  | 27.5  |
| 4             | 10.0                 | ..    | ..                   | 32.5  | 13.5                | 25.0  | 12.5              | 19.0  | 54.0                  | 50.0   | -                         | -     | 0.5                     | 0.2   | ESE                     | ENE   | -             | -     | 1.6                  | 2.0   | 13.5                  | 29.0  |
| 5             | 12.0                 | ..    | ..                   | 32.5  | 14.0                | 25.5  | 13.0              | 19.5  | 54.0                  | 51.0   | -                         | -     | 0.6                     | 0.3   | NNE                     | SSW   | -             | -     | 1.6                  | 2.0   | 16.0                  | 29.0  |
| 6             | 12.0                 | ..    | ..                   | 32.5  | 15.0                | 26.0  | 14.0              | 21.0  | 58.0                  | 49.0   | -                         | -     | 0.4                     | 0.7   | ENE                     | WNW   | -             | -     | 1.6                  | 2.0   | 17.0                  | 29.5  |
| 7             | 14.0                 | ..    | ..                   | 32.0  | 17.0                | 26.0  | 15.0              | 21.0  | 61.0                  | 56.0   | -                         | 2.0   | 0.6                     | 2.3   | NNE                     | ENE   | -             | -     | 1.6                  | 2.0   | 18.0                  | 29.5  |
| 8             | 19.0                 | ..    | ..                   | 33.0  | 22.0                | 29.5  | 19.5              | 22.0  | 65.0                  | 47.0   | -                         | 6.0   | 1.8                     | 0.7   | SSW                     | ESE   | -             | -     | 1.4                  | 2.0   | 21.5                  | 31.5  |
| 9             | 15.0                 | ..    | ..                   | 32.0  | 18.0                | 25.5  | 17.0              | 20.5  | 58.0                  | 54.0   | -                         | -     | 2.0                     | 1.6   | ESE                     | SSE   | -             | -     | 1.6                  | 1.6   | 19.0                  | 29.0  |
| 10            | 15.0                 | ..    | ..                   | 32.0  | 18.0                | 27.0  | 17.0              | 20.0  | 62.0                  | 53.0   | -                         | 2.0   | 1.0                     | 0.5   | SSE                     | SSE   | -             | -     | 1.4                  | 1.6   | 18.0                  | 29.0  |
| 11            | 20.0                 | ..    | ..                   | 29.0  | 22.0                | 26.0  | 19.0              | 19.5  | 59.0                  | 52.0   | -                         | 4.0   | 8.4                     | 1.1   | SSW                     | SSW   | -             | -     | 1.4                  | 1.6   | 22.0                  | 28.5  |
| 12            | 20.5                 | ..    | ..                   | 31.5  | 22.0                | 27.5  | 17.0              | 20.0  | 62.0                  | 40.0   | -                         | -     | 2.6                     | 0.4   | SSW                     | NNE   | -             | -     | 1.4                  | 2.0   | 21.0                  | 29.0  |
| 13            | 14.0                 | ..    | ..                   | 32.0  | 16.0                | 28.0  | 15.0              | 18.5  | 57.0                  | 40.0   | -                         | 2.0   | 1.8                     | 1.0   | NNE                     | NNE   | -             | -     | 1.6                  | 2.0   | 17.0                  | 29.0  |
| 14            | 16.0                 | ..    | ..                   | 32.0  | 18.0                | 28.5  | 16.0              | 20.0  | 58.0                  | 44.0   | -                         | -     | 10.8                    | 0.1   | NNE                     | ENE   | -             | -     | 1.6                  | 1.8   | 18.0                  | 30.0  |
| 15            | 13.0                 | ..    | ..                   | 31.0  | 17.0                | 28.5  | 16.0              | 18.5  | 58.0                  | 30.0   | 2.0                       | 6.0   | 2.7                     | 3.9   | ENE                     | SSE   | -             | -     | 1.6                  | 1.8   | 17.0                  | 30.0  |
| 16            | 11.0                 | ..    | ..                   | 31.0  | 15.0                | 29.0  | 13.0              | 18.0  | 52.0                  | 35.0   | -                         | -     | 2.1                     | 2.1   | SSE                     | ESE   | -             | -     | 1.6                  | 1.8   | 15.0                  | 30.0  |
| 17            | 10.5                 | ..    | ..                   | 31.5  | 13.5                | 30.0  | 12.0              | 19.5  | 50.0                  | 35.0   | -                         | -     | 2.3                     | 5.5   | NNE                     | SSW   | -             | -     | 1.6                  | 2.0   | 14.5                  | 32.0  |
| 18            | 12.0                 | ..    | ..                   | 32.5  | 16.0                | 27.0  | 14.5              | 18.5  | 54.0                  | 42.0   | -                         | -     | 1.6                     | 0.9   | NNE                     | ESE   | -             | -     | 1.8                  | 2.2   | 16.0                  | 30.0  |
| 19            | 12.5                 | ..    | ..                   | 33.5  | 17.0                | 28.0  | 15.0              | 21.0  | 56.0                  | 45.0   | -                         | 2.0   | 0.6                     | 0.4   | ESE                     | SSW   | -             | -     | 1.8                  | 2.2   | 16.0                  | 31.0  |
| 20            | 13.0                 | ..    | ..                   | 34.0  | 18.0                | 29.0  | 16.0              | 21.5  | 59.0                  | 48.0   | -                         | -     | 2.0                     | 0.2   | ESE                     | SSE   | -             | -     | 1.8                  | 2.2   | 16.0                  | 31.5  |
| 21            | 14.0                 | ..    | ..                   | 34.0  | 17.5                | 29.5  | 15.5              | 21.5  | 56.0                  | 47.0   | -                         | 2.0   | 1.2                     | 0.8   | SSW                     | SSE   | -             | -     | 1.8                  | 2.2   | 16.0                  | 31.5  |
| 22            | 12.0                 | ..    | ..                   | 35.0  | 16.0                | 32.5  | 13.5              | 21.0  | 50.0                  | 27.0   | -                         | 6.0   | 1.5                     | 1.6   | NNE                     | SSE   | -             | -     | 1.8                  | 2.2   | 16.0                  | 31.0  |
| 23            | 12.5                 | ..    | ..                   | 36.0  | 16.0                | 30.0  | 14.0              | 20.0  | 51.0                  | 32.0   | -                         | -     | 0.6                     | 0.3   | ESE                     | SSE   | -             | -     | 1.8                  | 2.2   | 16.5                  | 32.0  |
| 24            | 13.0                 | ..    | ..                   | 36.5  | 17.0                | 32.0  | 14.5              | 21.0  | 55.0                  | 32.0   | -                         | -     | 2.5                     | 0.3   | SSE                     | NNE   | -             | -     | 1.8                  | 2.2   | 17.0                  | 32.5  |
| 25            | 13.0                 | ..    | ..                   | 36.0  | 17.0                | 32.0  | 14.0              | 21.5  | 54.0                  | 36.0   | 6.0                       | -     | 1.3                     | 2.2   | SSE                     | NNE   | -             | -     | 1.8                  | 2.2   | 17.0                  | 32.0  |
| 26            | 14.5                 | ..    | ..                   | 35.0  | 19.0                | 32.5  | 18.0              | 21.5  | 51.0                  | 35.0   | -                         | -     | 1.4                     | 1.7   | SSW                     | ESE   | -             | -     | 1.8                  | 2.2   | 19.0                  | 31.0  |
| 27            | 16.0                 | ..    | ..                   | 35.0  | 21.5                | 32.5  | 18.0              | 19.5  | 53.0                  | 36.0   | 16.0                      | -     | 4.3                     | 7.8   | SSW                     | SSW   | -             | -     | 1.8                  | 2.4   | 19.5                  | 31.0  |
| 28            | 12.0                 |       | ..                   |       | 19.0                |       | 15.0              |       | 48.0                  |        | 2.0                       |       | 2.4                     |       | NNE                     |       | -             |       | 1.8                  |       | 17.0                  |       |
| Total         | 373.5                | .. *  | .. *                 | 915.0 | 471.5               | 785.0 | 417.5             | 555.5 | 1552.0                | 1188.0 | 26.0                      | 58.0  | 60.4                    | 42.5  |                         |       | -             | -     | 46.8                 | 55.6  | 473.0                 | 838.5 |
| Average       | 13.3                 | .. *  | .. *                 | 32.7  | 16.8                | 28.0  | 14.9              | 19.8  | 55.4                  | 42.4   | 0.9                       | 2.1   | 2.2                     | 1.5   |                         |       |               |       |                      |       | 16.9                  | 29.9  |
|               | 6.7 *                |       | 16.3 *               |       | 22.4                |       | 17.4              |       | 48.9                  |        | 1.5                       |       | 1.8                     |       |                         |       | 0.0           |       | 102.4                |       | 23.4                  |       |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| March 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|------------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM        |                      | ..    |                      | 35.5   |                     | 31.0   |                   | 20.5  |                       | 30.0   |                           | 4.0   |                         | 2.8   |                         | SSE   |               | -     |                      | 2.4   |                       | 31.0   |
| 1          | 14.0                 | ..    | ..                   | 37.0   | 19.0                | 33.5   | 16.0              | 21.0  | 50.0                  | 28.0   | 2.0                       | -     | 2.1                     | 0.5   | SSW                     | WNW   | -             | -     | 1.8                  | 2.4   | ..                    | ..     |
| 2          | 15.0                 | ..    | ..                   | 37.0   | 19.5                | 30.0   | 16.0              | 20.0  | 47.0                  | 31.0   | -                         | 6.0   | 0.2                     | 1.2   | SSW                     | SSW   | -             | -     | 1.8                  | 2.4   | ..                    | ..     |
| 3          | 16.0                 | ..    | ..                   | 38.0   | 19.5                | 36.0   | 16.5              | 22.0  | 50.0                  | 29.0   | -                         | -     | 4.5                     | 1.4   | SSE                     | SSE   | -             | -     | 1.8                  | 2.4   | ..                    | ..     |
| 4          | 16.5                 | ..    | ..                   | 32.5   | 21.5                | 31.5   | 17.5              | 21.5  | 49.0                  | 31.0   | -                         | -     | 4.4                     | 0.4   | SSW                     | ENE   | -             | -     | 1.6                  | 3.2   | ..                    | ..     |
| 5          | 17.0                 | ..    | ..                   | 37.5   | 24.0                | 32.0   | 19.0              | 22.0  | 50.0                  | 35.0   | -                         | 2.0   | 3.7                     | 0.1   | SSW                     | NNW   | -             | -     | 1.8                  | 3.8   | ..                    | ..     |
| 6          | 18.0                 | ..    | ..                   | 36.0   | 22.0                | 32.0   | 18.5              | 22.5  | 48.0                  | 38.0   | -                         | 2.0   | 3.4                     | 0.7   | SSE                     | ESE   | -             | -     | 1.8                  | 2.4   | ..                    | ..     |
| 7          | 18.0                 | ..    | ..                   | 36.0   | 21.0                | 32.0   | 18.5              | 22.5  | 53.0                  | 37.0   | -                         | -     | 2.7                     | 0.9   | SSE                     | ENE   | -             | -     | 1.8                  | 2.4   | ..                    | ..     |
| 8          | 18.0                 | ..    | ..                   | 36.0   | 21.0                | 32.0   | 19.0              | 22.5  | 51.0                  | 38.0   | -                         | -     | 8.4                     | 0.8   | SSE                     | SSW   | -             | -     | 1.8                  | 2.4   | ..                    | ..     |
| 9          | 20.0                 | ..    | ..                   | 36.0   | 23.0                | 32.0   | 20.0              | 22.5  | 56.0                  | 37.0   | 2.0                       | -     | 8.6                     | 0.7   | NNE                     | ENE   | -             | -     | 2.0                  | 2.4   | ..                    | ..     |
| 10         | 19.5                 | ..    | ..                   | 36.0   | 23.0                | 32.5   | 20.0              | 23.0  | 55.0                  | 38.0   | 2.0                       | 6.0   | 0.5                     | 11.1  | SSE                     | SSE   | -             | -     | 2.0                  | 2.4   | ..                    | ..     |
| 11         | 18.0                 | ..    | ..                   | 37.0   | 23.5                | 33.0   | 21.0              | 22.0  | 52.0                  | 31.0   | -                         | 2.0   | 1.0                     | 0.3   | NNE                     | ENE   | -             | -     | 2.0                  | 2.4   | ..                    | ..     |
| 12         | 18.5                 | ..    | ..                   | 36.0   | 24.0                | 34.0   | 21.0              | 22.0  | 53.0                  | 35.0   | -                         | -     | 1.1                     | 5.7   | SSW                     | SSW   | -             | -     | 2.0                  | 2.4   | ..                    | ..     |
| 13         | 18.5                 | ..    | ..                   | 36.0   | 24.0                | 34.0   | 21.0              | 22.5  | 55.0                  | 36.0   | -                         | 2.0   | 2.2                     | 0.3   | SSE                     | SSE   | -             | -     | 2.0                  | 2.4   | ..                    | ..     |
| 14         | 18.0                 | ..    | ..                   | 38.0   | 24.0                | 35.5   | 20.0              | 23.0  | 42.0                  | 31.0   | -                         | -     | 8.8                     | 0.5   | SSW                     | WNW   | -             | -     | 2.0                  | 2.6   | ..                    | ..     |
| 15         | 21.5                 | ..    | ..                   | 37.0   | 21.0                | 33.5   | 17.5              | 23.0  | 46.0                  | 34.0   | -                         | 4.0   | 3.2                     | 0.8   | SSE                     | NNE   | -             | -     | 2.0                  | 2.6   | ..                    | ..     |
| 16         | 22.0                 | ..    | ..                   | 30.5   | 28.0                | 29.0   | 27.0              | 26.5  | 48.0                  | 44.0   | -                         | 20.0  | 0.9                     | 19.2  | SSE                     | SSE   | -             | -     | 2.0                  | 2.2   | ..                    | ..     |
| 17         | 22.0                 | ..    | ..                   | 34.0   | 25.0                | 33.0   | 24.0              | 32.5  | 56.0                  | 41.0   | -                         | 6.0   | 9.8                     | 3.3   | NNE                     | ESE   | -             | -     | 1.8                  | 2.2   | ..                    | ..     |
| 18         | 21.0                 | ..    | ..                   | 37.0   | 25.0                | 33.0   | 24.0              | 32.5  | 54.0                  | 40.0   | -                         | 2.0   | 1.6                     | 0.3   | NNE                     | SSE   | -             | -     | 2.0                  | 2.4   | ..                    | ..     |
| 19         | 20.0                 | ..    | ..                   | 37.0   | 27.0                | 33.0   | 26.0              | 22.5  | 52.0                  | 53.0   | 4.0                       | 2.0   | 3.9                     | 1.1   | ESE                     | ESE   | -             | -     | 2.0                  | 2.6   | ..                    | ..     |
| 20         | 18.0                 | ..    | ..                   | 37.5   | 24.0                | 35.5   | 20.5              | 21.0  | 50.0                  | 40.0   | 2.0                       | -     | 3.6                     | 2.3   | NNE                     | SSE   | -             | -     | 2.0                  | 3.0   | ..                    | ..     |
| 21         | 18.0                 | ..    | ..                   | 38.5   | 22.5                | 33.5   | 16.5              | 21.5  | 37.0                  | 40.0   | -                         | -     | 1.7                     | 0.3   | ENE                     | NNW   | -             | -     | 2.0                  | 3.0   | ..                    | ..     |
| 22         | 22.5                 | ..    | ..                   | 38.0   | 26.0                | 35.0   | 22.5              | 24.0  | 55.0                  | 36.0   | -                         | -     | 3.5                     | 0.0   | SSE                     | SSE   | -             | -     | 2.2                  | 3.0   | ..                    | ..     |
| 23         | 23.0                 | ..    | ..                   | 39.0   | 27.0                | 37.0   | 23.0              | 22.0  | 64.0                  | 34.0   | -                         | -     | 6.1                     | 0.0   | ESE                     | SSE   | -             | -     | 2.4                  | 3.0   | ..                    | ..     |
| 24         | 22.5                 | ..    | ..                   | 40.0   | 27.0                | 36.0   | 24.5              | 25.0  | 62.0                  | 30.0   | 6.0                       | 6.0   | 2.0                     | 1.8   | SSE                     | WSW   | -             | -     | 2.4                  | 3.2   | ..                    | ..     |
| 25         | 25.0                 | ..    | ..                   | 39.0   | 27.5                | 35.0   | 27.0              | 35.0  | 65.0                  | 40.0   | -                         | 2.0   | 8.5                     | 0.1   | ESE                     | ENE   | -             | -     | 2.0                  | 3.2   | ..                    | ..     |
| 26         | 24.5                 | ..    | ..                   | 39.0   | 28.0                | 36.0   | 27.0              | 35.0  | 62.0                  | 20.0   | 4.0                       | 2.0   | 11.0                    | 0.4   | ESE                     | ESE   | -             | -     | 2.0                  | 3.4   | ..                    | ..     |
| 27         | 18.0                 | ..    | ..                   | 39.0   | 25.0                | 38.0   | 24.0              | 21.0  | 41.0                  | 22.0   | -                         | -     | 14.2                    | 0.5   | NNE                     | SSW   | -             | -     | 2.4                  | 3.4   | ..                    | ..     |
| 28         | 17.5                 | ..    | ..                   | 39.0   | 25.0                | 36.5   | 20.0              | 20.0  | 39.0                  | 34.0   | -                         | 2.0   | 2.6                     | 0.3   | SSE                     | ESE   | -             | -     | 2.8                  | 3.2   | ..                    | ..     |
| 29         | 21.0                 | ..    | ..                   | 40.0   | 26.0                | 36.0   | 24.0              | 24.5  | 51.0                  | 38.0   | -                         | 6.0   | 3.7                     | 0.8   | SSW                     | SSW   | -             | -     | 2.6                  | 3.4   | ..                    | ..     |
| 30         | 25.0                 | ..    | ..                   | 37.5   | 28.0                | 35.0   | 26.0              | 25.0  | 53.0                  | 43.0   | -                         | 10.0  | 6.6                     | 0.3   | NNE                     | ENE   | -             | -     | 2.4                  | 3.2   | ..                    | ..     |
| 31         | 26.0                 | ..    | ..                   |        | 27.0                |        | 25.0              |       | 49.0                  |        | 4.0                       |       | 15.2                    |       | ESE                     |       | -             |       | 2.4                  |       | ..                    |        |
| Total      | 612.5                | .. *  | .. *                 | 1146.5 | 748.0               | 1046.0 | 662.5             | 740.5 | 1595.0                | 1094.0 | 26.0                      | 86.0  | 149.7                   | 59.2  |                         |       | -             | -     | 63.6                 | 85.4  | .. *                  | 31.0 * |
| Average    | 19.8                 | .. *  | .. *                 | 37.0   | 24.1                | 33.7   | 21.4              | 23.9  | 51.5                  | 35.3   | 0.8                       | 2.8   | 4.8                     | 1.9   |                         |       |               |       |                      |       | .. *                  | 31.0 * |
|            | 9.9 *                |       | 18.5 *               |        | 28.9                |        | 22.6              |       | 43.4                  |        | 1.8                       |       | 3.4                     |       |                         |       | 0.0           |       | 149.0                |       | 15.5 *                |        |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| April 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |         |
|------------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|---------|
|            | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |         |
| Day        | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30   |
| LPM        |                      | ..    |                      | 43.0   |                     | 33.0   |                   | 26.5  |                       | 47.0   |                           | 4.0   |                         | 4.9   |                         | ENE   |               | -     |                      | 3.2   |                       | ..      |
| 1          | 25.0                 | ..    | ..                   | 40.0   | 29.0                | 26.0   | 25.0              | 21.0  | 54.0                  | 36.0   | 2.0                       | 2.0   | 2.1                     | 3.0   | ENE                     | SSE   | -             | -     | 2.4                  | 3.2   | 27.0                  | 30.0    |
| 2          | 19.0                 | ..    | ..                   | 36.0   | 24.5                | 32.5   | 19.5              | 21.5  | 44.0                  | 32.0   | 14.0                      | 2.0   | 20.4                    | 0.9   | ESE                     | SSW   | 1.0           | -     | 0.8                  | 3.4   | 22.0                  | 33.5    |
| 3          | 23.5                 | ..    | ..                   | 37.0   | 28.5                | 33.5   | 23.5              | 22.5  | 59.0                  | 40.0   | 2.0                       | 4.0   | 10.8                    | 0.4   | ENE                     | NNE   | -             | 6.6   | 2.0                  | 3.8   | 25.0                  | 35.0    |
| 4          | 24.0                 | ..    | ..                   | 38.0   | 28.0                | 24.5   | 23.5              | 22.0  | 57.0                  | 49.0   | 2.0                       | 12.0  | 16.3                    | 2.5   | ENE                     | NNW   | -             | -     | 2.8                  | 4.2   | 26.5                  | 34.5    |
| 5          | 21.0                 | ..    | ..                   | 37.0   | 24.5                | 33.5   | 21.5              | 26.5  | 53.0                  | 50.0   | -                         | 4.0   | 12.3                    | 0.9   | SSE                     | WNW   | -             | -     | 3.2                  | 3.0   | 23.0                  | 35.0    |
| 6          | 24.5                 | ..    | ..                   | 35.0   | 28.0                | 30.0   | 26.0              | 25.0  | 60.0                  | 49.0   | -                         | -     | 22.1                    | 2.3   | NNW                     | ESE   | -             | -     | 2.6                  | 3.0   | 26.5                  | 33.5    |
| 7          | 22.0                 | ..    | ..                   | 35.0   | 27.0                | 27.0   | 25.0              | 26.0  | 51.0                  | 52.0   | -                         | -     | 13.0                    | 2.8   | ESE                     | SSW   | 0.6           | -     | 2.0                  | 3.0   | 24.0                  | 30.5    |
| 8          | 23.0                 | ..    | ..                   | 36.0   | 27.5                | 33.5   | 26.0              | 24.5  | 57.0                  | 46.0   | 4.0                       | 2.0   | 23.9                    | 0.7   | ENE                     | NNE   | 0.2           | 1.2   | 1.8                  | 4.0   | 24.5                  | 35.0    |
| 9          | 22.5                 | ..    | ..                   | 26.5   | 26.5                | 27.0   | 24.0              | 21.0  | 58.0                  | 50.0   | 6.0                       | 8.0   | 12.6                    | 21.1  | ESE                     | NNW   | -             | -     | 1.8                  | 2.0   | 23.5                  | 30.0    |
| 10         | 22.0                 | ..    | ..                   | 37.5   | 26.0                | 33.5   | 22.5              | 23.0  | 60.0                  | 42.0   | 4.0                       | 2.0   | 12.2                    | 1.0   | ENE                     | ESE   | -             | -     | 2.0                  | 4.0   | 23.0                  | 36.0    |
| 11         | 23.0                 | ..    | ..                   | 39.0   | 28.0                | 34.5   | 24.0              | 22.0  | 59.0                  | 33.0   | -                         | 2.0   | 8.4                     | 0.9   | NNE                     | NNE   | -             | 8.0   | 2.0                  | 4.0   | 23.5                  | 36.0    |
| 12         | 25.5                 | ..    | ..                   | 36.0   | 29.5                | 35.0   | 25.5              | 23.5  | 61.0                  | 60.0   | -                         | -     | 1.5                     | 13.2  | ESE                     | NNW   | -             | -     | 2.6                  | 5.0   | 27.0                  | 28.5    |
| 13         | 20.0                 | ..    | ..                   | 38.0   | 26.0                | 36.0   | 21.5              | 25.0  | 60.0                  | 42.0   | 2.0                       | 2.0   | 6.5                     | 1.5   | ESE                     | NNE   | -             | -     | 2.0                  | 4.0   | 22.0                  | 30.0    |
| 14         | 25.0                 | ..    | ..                   | 38.0   | 30.0                | 31.5   | 26.0              | 22.0  | 63.0                  | 40.0   | -                         | 10.0  | 8.0                     | 2.9   | ESE                     | SSE   | -             | -     | 2.0                  | 4.0   | 27.0                  | 23.5    |
| 15         | 25.0                 | ..    | ..                   | 40.5   | 29.5                | 38.5   | 23.5              | 24.5  | 51.0                  | 30.0   | -                         | 4.0   | 4.9                     | 0.2   | SSE                     | SSE   | -             | -     | 2.4                  | 4.4   | 26.5                  | 37.0    |
| 16         | 24.5                 | ..    | ..                   | 40.5   | 29.0                | 38.5   | 24.0              | 24.5  | 52.0                  | 29.0   | -                         | -     | 3.1                     | 1.2   | ENE                     | ESE   | -             | -     | 2.4                  | 4.4   | 26.5                  | 37.0    |
| 17         | 25.0                 | ..    | ..                   | 42.0   | 30.0                | 39.0   | 25.0              | 23.5  | 50.0                  | 29.0   | -                         | 4.0   | 3.8                     | 0.5   | ESE                     | NNW   | -             | -     | 2.4                  | 4.4   | 26.5                  | 37.0    |
| 18         | 24.0                 | ..    | ..                   | 42.0   | 30.0                | 40.0   | 23.5              | 25.0  | 49.0                  | 25.0   | 2.0                       | 4.0   | 10.1                    | 4.0   | NNE                     | NNE   | -             | -     | 2.4                  | 5.0   | 26.5                  | 37.5    |
| 19         | 27.0                 | ..    | ..                   | 42.0   | 30.0                | 37.0   | 26.5              | 26.0  | 59.0                  | 32.0   | 2.0                       | 2.0   | 17.3                    | 0.7   | ESE                     | NNE   | -             | 7.8   | 2.4                  | 5.0   | 29.0                  | 37.5    |
| 20         | 26.0                 | ..    | ..                   | 41.0   | 31.0                | 31.0   | 27.0              | 23.0  | 61.0                  | 47.0   | 10.0                      | 2.0   | 7.9                     | 9.5   | SSE                     | SSE   | -             | -     | 2.4                  | 4.8   | 29.0                  | 34.0    |
| 21         | 24.0                 | ..    | ..                   | 41.5   | 29.0                | 38.5   | 24.0              | 26.0  | 56.0                  | 31.0   | -                         | -     | 11.3                    | 0.5   | SSE                     | SSE   | -             | -     | 2.0                  | 5.0   | 26.0                  | 38.0    |
| 22         | 26.0                 | ..    | ..                   | 43.0   | 30.5                | 37.5   | 27.0              | 25.5  | 60.0                  | 38.0   | -                         | 4.0   | 2.9                     | 0.5   | ENE                     | NNW   | -             | 14.4  | 2.0                  | 5.0   | 26.5                  | 39.0    |
| 23         | 28.0                 | ..    | ..                   | 40.5   | 31.5                | 26.0   | 31.0              | 25.0  | 57.0                  | 49.0   | 2.0                       | 2.0   | 10.1                    | 8.9   | SSE                     | ENE   | -             | -     | 2.0                  | 4.0   | 28.5                  | 31.0    |
| 24         | 24.0                 | ..    | ..                   | 38.0   | 28.5                | 33.5   | 24.0              | 24.5  | 61.0                  | 46.0   | -                         | -     | 8.2                     | 1.0   | ENE                     | SSE   | -             | -     | 1.8                  | 5.0   | 26.0                  | 34.0    |
| 25         | 21.5                 | ..    | ..                   | 41.0   | 28.5                | 40.0   | 21.5              | 24.0  | 50.0                  | 22.0   | -                         | -     | 6.8                     | 0.5   | SSE                     | SSE   | -             | -     | 1.8                  | 5.0   | 25.0                  | 37.0    |
| 26         | 24.0                 | ..    | ..                   | 43.0   | 29.0                | 38.5   | 25.0              | 23.5  | 61.0                  | 25.0   | 2.0                       | 10.0  | 6.6                     | 2.4   | ENE                     | NNW   | -             | -     | 2.0                  | 5.0   | 27.0                  | 37.5    |
| 27         | 26.0                 | ..    | ..                   | 39.0   | 30.0                | 36.5   | 26.0              | 26.0  | 62.0                  | 42.0   | 2.0                       | 6.0   | 15.5                    | 5.3   | SSE                     | SSW   | -             | -     | 2.2                  | 5.0   | 28.0                  | 37.0    |
| 28         | 27.0                 | ..    | ..                   | 38.0   | 30.0                | 35.5   | 25.5              | 27.0  | 58.0                  | 49.0   | 10.0                      | 10.0  | 34.7                    | 0.4   | SSW                     | ESE   | -             | -     | 2.2                  | 5.0   | 28.0                  | 36.0    |
| 29         | 23.0                 | ..    | ..                   | 40.0   | 31.0                | 35.0   | 30.0              | 29.0  | 50.0                  | 46.0   | 8.0                       | 12.0  | 9.6                     | 5.6   | SSE                     | SSE   | 8.2           | -     | 2.0                  | 5.0   | 27.0                  | 37.0    |
| 30         | 23.0                 |       | ..                   |        | 31.0                |        | 30.0              |       | 50.0                  |        | -                         |       | 18.2                    |       | SSE                     |       | 0.8           |       | 2.0                  |       | 27.0                  |         |
| Total      | 718.0                | .. *  | .. *                 | 1164.0 | 861.5               | 1016.0 | 747.0             | 729.0 | 1683.0                | 1208.0 | 74.0                      | 114.0 | 341.2                   | 100.3 |                         |       | 10.8          | 38.0  | 64.4                 | 125.8 | 777.5                 | 997.5 * |
| Average    | 23.9                 | .. *  | .. *                 | 38.8   | 28.7                | 33.9   | 24.9              | 24.3  | 56.1                  | 40.3   | 2.5                       | 3.8   | 11.4                    | 3.3   |                         |       |               |       |                      |       | 25.9                  | 34.4 *  |
|            | 12.0 *               |       | 19.4 *               |        | 31.3                |        | 24.6              |       | 48.2                  |        | 3.1                       |       | 7.4                     |       |                         |       | 48.8          |       | 190.2                |       | 30.2 *                |         |

## Twice Daily Climatic Data

Station Code : EM000G5

Local River/Basin : Mahanadi

Station Name : TIKARPARA

Sub-Division : Bhubaneswar

- 0.0 .. N.A.

| May 2018 |                      |       |                      |        |                     |        |                   |       |                       |        |                           |       |                         |       |                         |       |               |       |                      |       |                       |        |
|----------|----------------------|-------|----------------------|--------|---------------------|--------|-------------------|-------|-----------------------|--------|---------------------------|-------|-------------------------|-------|-------------------------|-------|---------------|-------|----------------------|-------|-----------------------|--------|
|          | Min Temperature (°C) |       | Max Temperature (°C) |        | Dry Bulb Temp. (°C) |        | Wet Bulb Temp. °C |       | Relative Humidity (%) |        | Inst. Wind Speed (kms/hr) |       | Av. Wind Speed (kms/hr) |       | Wind Direction (16 pts) |       | Rainfall (mm) |       | Pan Evaporation (mm) |       | Temp - Pan Water (°C) |        |
| Day      | 08:30                | 17:30 | 08:30                | 17:30  | 08:30               | 17:30  | 08:30             | 17:30 | 08:30                 | 17:30  | 08:30                     | 17:30 | 08:30                   | 17:30 | 08:30                   | 17:30 | 08:30         | 17:30 | 08:30                | 17:30 | 08:30                 | 17:30  |
| LPM      |                      | ..    |                      | 40.0   |                     | 36.0   |                   | 35.0  |                       | 39.0   |                           | -     |                         | 0.9   |                         | SSE   |               | -     |                      | 5.0   |                       | 36.0   |
| 1        | 23.0                 | ..    | ..                   | 33.0   | 26.0                | 31.0   | 24.5              | 30.5  | 54.0                  | 50.0   | 2.0                       | 24.0  | 18.0                    | 8.1   | SSE                     | NNE   | 8.0           | -     | 2.0                  | 4.0   | 25.0                  | 34.0   |
| 2        | 23.5                 | ..    | ..                   | 38.5   | 27.5                | 35.0   | 24.0              | 25.5  | 65.0                  | 48.0   | -                         | 4.0   | 7.6                     | 1.3   | SSE                     | ESE   | -             | -     | 2.0                  | 5.0   | 26.0                  | 38.0   |
| 3        | 20.5                 | ..    | ..                   | 34.0   | 27.5                | 33.0   | 22.5              | 25.0  | 61.0                  | 55.0   | 8.0                       | 6.0   | 23.8                    | 3.3   | ESE                     | NNW   | 21.4          | -     | 2.0                  | 5.0   | 25.0                  | 35.0   |
| 4        | 24.0                 | ..    | ..                   | 38.0   | 28.0                | 36.0   | 25.0              | 26.0  | 66.0                  | 53.0   | -                         | 10.0  | 9.0                     | 1.5   | ESE                     | NNE   | -             | -     | 2.0                  | 5.0   | 25.5                  | 38.0   |
| 5        | 26.0                 | ..    | ..                   | 41.0   | 31.0                | 38.0   | 27.0              | 27.0  | 68.0                  | 47.0   | -                         | 10.0  | 10.6                    | 3.4   | ESE                     | NNE   | -             | -     | 2.2                  | 5.0   | 29.0                  | 39.0   |
| 6        | 28.0                 | ..    | ..                   | 41.0   | 31.5                | 37.0   | 27.5              | 28.0  | 63.0                  | 52.0   | 2.0                       | -     | 10.7                    | 1.0   | ENE                     | NNW   | -             | -     | 2.2                  | 5.0   | 30.0                  | 39.0   |
| 7        | 28.5                 | ..    | ..                   | 43.0   | 31.0                | 38.5   | 27.5              | 28.5  | 60.0                  | 49.0   | -                         | 4.0   | 5.4                     | 0.1   | SSE                     | NNE   | -             | -     | 2.4                  | 5.0   | 30.0                  | 39.5   |
| 8        | 28.5                 | ..    | ..                   | 43.5   | 32.0                | 39.0   | 29.5              | 28.5  | 60.0                  | 35.0   | 2.0                       | 2.0   | 0.7                     | 1.0   | ESE                     | SSE   | -             | -     | 2.4                  | 5.0   | 30.5                  | 39.5   |
| 9        | 28.5                 | ..    | ..                   | 42.5   | 32.0                | 38.5   | 27.5              | 26.5  | 57.0                  | 34.0   | -                         | -     | 0.5                     | 0.3   | ESE                     | ENE   | -             | -     | 2.4                  | 5.0   | 30.5                  | 38.0   |
| 10       | 25.0                 | ..    | ..                   | 41.5   | 31.0                | 39.0   | 22.0              | 25.5  | 39.0                  | 31.0   | -                         | -     | 0.1                     | 0.6   | SSE                     | NNW   | -             | -     | 2.2                  | 5.0   | 27.0                  | 38.0   |
| 11       | 23.5                 | ..    | ..                   | 39.0   | 28.0                | 33.0   | 25.0              | 24.0  | 53.0                  | 45.0   | -                         | -     | 0.1                     | 0.0   | NNE                     | SSE   | 10.8          | -     | 2.2                  | 5.0   | 28.0                  | 35.0   |
| 12       | 23.5                 | ..    | ..                   | 41.0   | 28.0                | 37.0   | 24.0              | 27.0  | 52.0                  | 43.0   | 6.0                       | 2.0   | 0.1                     | 3.4   | SSE                     | NNE   | -             | -     | 2.0                  | 5.0   | 26.0                  | 38.0   |
| 13       | 22.5                 | ..    | ..                   | 39.0   | 29.0                | 36.5   | 28.0              | 26.0  | 55.0                  | 52.0   | 2.0                       | 2.0   | 4.0                     | 0.2   | SSE                     | SSE   | 7.2           | 29.2  | 1.8                  | 4.6   | 27.0                  | 38.0   |
| 14       | 26.0                 | ..    | ..                   | 30.0   | 29.5                | 26.0   | 29.0              | 23.0  | 57.0                  | 57.0   | 4.0                       | -     | 14.7                    | 24.1  | SSW                     | NNE   | -             | -     | 2.2                  | 5.0   | 27.5                  | 29.0   |
| 15       | 22.5                 | ..    | ..                   | 37.0   | 26.0                | 33.5   | 25.5              | 25.5  | 61.0                  | 56.0   | -                         | -     | 14.9                    | 0.6   | ESE                     | NNE   | -             | -     | 1.2                  | 4.0   | 24.5                  | 35.5   |
| 16       | 23.0                 | ..    | ..                   | 37.5   | 26.5                | 35.5   | 25.5              | 27.5  | 60.0                  | 57.0   | -                         | -     | 0.7                     | 5.4   | SSW                     | ENE   | -             | -     | 2.0                  | 4.0   | 25.0                  | 34.5   |
| 17       | 26.0                 | ..    | ..                   | 40.0   | 30.0                | 36.0   | 26.0              | 28.0  | 62.0                  | 54.0   | 6.0                       | 10.0  | 24.9                    | 5.6   | SSE                     | NNE   | -             | -     | 2.4                  | 4.2   | 28.0                  | 38.0   |
| 18       | 26.5                 | ..    | ..                   | 40.0   | 30.0                | 38.5   | 25.0              | 28.0  | 60.0                  | 44.0   | 4.0                       | 2.0   | 3.6                     | 0.0   | NNE                     | ENE   | -             | -     | 2.6                  | 4.2   | 28.0                  | 38.0   |
| 19       | 24.0                 | ..    | ..                   | 39.0   | 28.0                | 34.0   | 24.5              | 33.0  | 60.0                  | 54.0   | -                         | -     | 19.7                    | 0.0   | SSE                     | SSE   | 11.4          | -     | 2.2                  | 3.8   | 26.5                  | 36.5   |
| 20       | 26.0                 | ..    | ..                   | 38.0   | 31.0                | 33.0   | 30.0              | 32.0  | 54.0                  | 51.0   | -                         | -     | 3.5                     | 0.4   | ESE                     | ENE   | -             | -     | 2.0                  | 3.6   | 30.0                  | 36.0   |
| 21       | 22.5                 | ..    | ..                   | 36.0   | 25.5                | 34.5   | 24.5              | 35.0  | 69.0                  | 65.0   | -                         | 8.0   | 23.1                    | 0.2   | SSE                     | SSE   | 43.2          | -     | 0.8                  | 4.0   | 25.5                  | 34.0   |
| 22       | 26.5                 | ..    | ..                   | 40.0   | 30.0                | 36.0   | 27.5              | 29.0  | 75.0                  | 59.0   | -                         | -     | 0.8                     | 0.1   | SSE                     | NNE   | -             | -     | 2.0                  | 4.0   | 27.0                  | 38.0   |
| 23       | 28.0                 | ..    | ..                   | 36.0   | 29.5                | 38.5   | 27.0              | 26.5  | 69.0                  | 64.0   | 12.0                      | -     | 3.7                     | 0.5   | NNW                     | NNW   | -             | -     | 2.4                  | 2.6   | 29.0                  | 33.0   |
| 24       | 27.5                 | ..    | ..                   | 38.5   | 30.5                | 37.5   | 27.5              | 29.0  | 74.0                  | 59.0   | -                         | -     | 2.7                     | 0.7   | SSE                     | NNE   | -             | -     | 2.4                  | 3.6   | 29.0                  | 38.0   |
| 25       | 28.0                 | ..    | ..                   | 38.5   | 31.0                | 36.5   | 27.5              | 29.5  | 67.0                  | 56.0   | -                         | -     | 0.5                     | 0.4   | NNE                     | SSE   | -             | -     | 2.4                  | 3.6   | 30.0                  | 38.0   |
| 26       | 27.5                 | ..    | ..                   | 38.5   | 31.0                | 35.5   | 27.0              | 28.5  | 62.0                  | 55.0   | -                         | -     | 0.5                     | 0.1   | SSE                     | NNE   | -             | -     | 2.6                  | 3.6   | 29.5                  | 38.0   |
| 27       | 27.5                 | ..    | ..                   | 39.0   | 31.0                | 35.5   | 27.5              | 28.5  | 63.0                  | 54.0   | -                         | -     | 0.6                     | 0.3   | NNE                     | NNE   | -             | -     | 2.6                  | 3.8   | 29.5                  | 38.0   |
| 28       | 27.5                 | ..    | ..                   | 39.5   | 31.0                | 36.0   | 27.5              | 28.5  | 62.0                  | 56.0   | -                         | -     | 0.2                     | 0.4   | SSW                     | SSW   | -             | -     | 2.6                  | 3.8   | 29.5                  | 38.0   |
| 29       | 28.5                 | ..    | ..                   | 39.5   | 30.5                | 36.5   | 26.5              | 28.5  | 53.0                  | 52.0   | -                         | -     | 0.8                     | 1.0   | SSW                     | SSE   | -             | -     | 2.8                  | 4.0   | 30.0                  | 38.5   |
| 30       | 27.0                 | ..    | ..                   | 40.0   | 30.5                | 38.0   | 27.0              | 30.0  | 67.0                  | 56.0   | -                         | -     | 1.5                     | 1.4   | SSE                     | WSW   | 0.4           | -     | 2.8                  | 4.0   | 30.0                  | 39.0   |
| 31       | 27.5                 |       | ..                   |        | 30.0                |        | 24.0              |       | 49.0                  |        | -                         |       | 1.5                     |       | SSE                     |       | -             |       | 2.8                  |       | 30.0                  |        |
| Total    | 797.0                | .. *  | .. *                 | 1202.0 | 914.0               | 1108.5 | 813.0             | 873.0 | 1877.0                | 1582.0 | 48.0                      | 84.0  | 208.4                   | 66.3  |                         |       | 102.4         | 29.2  | 68.6                 | 134.4 | 868.0                 | 1145.0 |
| Average  | 25.7                 | .. *  | .. *                 | 38.8   | 29.5                | 35.8   | 26.2              | 28.2  | 60.5                  | 51.0   | 1.5                       | 2.7   | 6.7                     | 2.1   |                         |       |               |       |                      |       | 28.0                  | 36.9   |
|          | 12.9 *               |       | 19.4 *               |        | 32.6                |        | 27.2              |       | 55.8                  |        | 2.1                       |       | 4.4                     |       |                         |       | 131.6         |       | 203.0                |       | 32.5                  |        |

# **FLOOD FORECASTING SITES**

## Daily Rainfall Data

Station Code :009B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Kelo

Station Name :KELO AT RAIGARH  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | -     | 6.4   | -     | 10.6 | -     | -   | -   | -     | -   | -     | 2.4    |
| 2                | -     | -     | 1.8   | 5.0   | 0.4  | -     | -   | -   | -     | -   | 2.0   | -      |
| 3                | 0.8   | 68.8  | 1.4   | 19.6  | 7.2  | -     | -   | -   | -     | -   | -     | 3.6    |
| 4                | -     | 4.6   | 16.8  | 0.8   | -    | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | 28.4  | 26.0  | -     | 0.8  | -     | -   | -   | -     | -   | -     | -      |
| 6                | -     | 14.3  | 2.8   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 7                | -     | -     | 1.8   | -     | 4.6  | -     | -   | -   | -     | -   | -     | -      |
| 8                | 1.0   | -     | 13.8  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 9                | -     | 48.8  | 16.8  | 11.6  | -    | -     | -   | -   | -     | -   | -     | -      |
| 10               | -     | 13.4  | -     | 32.6  | 12.4 | -     | -   | -   | -     | -   | 2.6   | -      |
| 11               | 5.2   | 5.2   | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 12               | 32.8  | 2.8   | -     | 1.4   | -    | -     | -   | -   | 8.6   | -   | -     | -      |
| 13               | -     | -     | -     | 61.0  | -    | -     | -   | -   | -     | -   | 2.4   | -      |
| 14               | 1.4   | 14.0  | 47.2  | -     | -    | -     | -   | -   | 3.8   | -   | -     | 8.6    |
| 15               | -     | -     | 10.4  | -     | -    | -     | -   | -   | -     | -   | -     | 10.4   |
| 16               | 5.4   | 2.6   | -     | -     | -    | -     | -   | -   | -     | 1.4 | -     | -      |
| 17               | -     | 4.4   | 50.0  | -     | -    | 1.8   | -   | -   | -     | 0.8 | -     | -      |
| 18               | -     | 9.8   | 4.4   | 8.2   | -    | -     | -   | -   | -     | -   | -     | -      |
| 19               | 1.4   | -     | 8.8   | 37.6  | -    | -     | -   | -   | -     | -   | -     | 7.6    |
| 20               | 4.6   | 10.6  | 8.2   | 43.0  | 3.0  | -     | -   | -   | -     | -   | -     | -      |
| 21               | 46.6  | 5.4   | -     | 51.0  | -    | -     | -   | -   | -     | -   | -     | -      |
| 22               | 4.2   | 3.4   | 2.6   | 37.8  | -    | -     | -   | -   | -     | -   | -     | -      |
| 23               | 0.8   | 30.6  | 32.4  | 8.2   | -    | -     | -   | -   | -     | -   | -     | -      |
| 24               | 21.8  | 22.0  | 11.8  | -     | 27.8 | -     | -   | -   | -     | -   | -     | -      |
| 25               | 1.4   | -     | 3.6   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 26               | 73.8  | 19.0  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 27               | 8.4   | 22.8  | 14.6  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 28               | 66.8  | 10.6  | 22.2  | 0.8   | -    | -     | -   | -   | -     | -   | -     | -      |
| 29               | 3.0   | 2.6   | 1.0   | 26.4  | -    | -     | -   | -   | ..... | -   | -     | 13.2   |
| 30               | 5.8   | -     | -     | 13.2  | -    | -     | -   | -   | ..... | -   | 3.8   | -      |
| 31               | ..... | -     | 24.6  | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 24.8   |
|                  |       |       |       |       |      |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 285.2 | 344.1 | 329.4 | 358.2 | 66.8 | 1.8   | 0.0 | 0.0 | 12.4  | 2.2 | 10.8  | 70.6   |
| Rainy Days       | 18    | 21    | 23    | 16    | 8    | 1     | 0   | 0   | 2     | 2   | 4     | 7      |
| Maximum          | 73.8  | 68.8  | 50.0  | 61.0  | 27.8 | 1.8   | 0.0 | 0.0 | 8.6   | 1.4 | 3.8   | 24.8   |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1481.5 |

## Daily Rainfall Data

Station Code :004B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Bheden

Station Name :PARMANPUR  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |       |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | 1.0   | -     | 1.2   | 33.8  | 17.6  | -     | ..  | -   | -     | -   | -     | 1.2    |
| 2                | 1.4   | 0.2   | 43.0  | 49.0  | 81.2  | -     | ..  | -   | -     | -   | -     | -      |
| 3                | -     | 14.8  | 1.0   | 41.4  | 18.4  | -     | ..  | -   | -     | -   | -     | -      |
| 4                | -     | 10.8  | 6.8   | -     | 1.4   | -     | ..  | -   | -     | -   | -     | -      |
| 5                | -     | 2.0   | 12.4  | 4.4   | 1.0   | -     | ..  | -   | -     | -   | -     | -      |
| 6                | 5.6   | 5.0   | 87.8  | 4.2   | 6.6   | -     | ..  | -   | -     | -   | -     | -      |
| 7                | -     | 1.6   | 8.4   | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 8                | -     | 7.2   | 6.2   | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 9                | -     | 25.0  | -     | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 10               | -     | 5.6   | 3.2   | 3.4   | 4.0   | -     | ..  | -   | -     | -   | 0.6   | -      |
| 11               | 1.2   | -     | -     | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 12               | 5.2   | 5.6   | 23.0  | 1.2   | -     | -     | ..  | -   | -     | -   | -     | -      |
| 13               | 3.6   | 0.4   | -     | -     | -     | -     | ..  | -   | -     | -   | -     | 8.2    |
| 14               | 0.4   | 39.8  | 29.6  | 0.6   | 7.6   | -     | ..  | -   | -     | -   | -     | 9.2    |
| 15               | 2.0   | -     | 80.6  | 0.8   | -     | -     | ..  | -   | -     | -   | -     | -      |
| 16               | 5.8   | 4.2   | 1.4   | -     | -     | -     | ..  | -   | -     | 3.2 | 10.4  | -      |
| 17               | -     | 17.6  | 91.2  | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 18               | -     | 3.0   | 3.8   | -     | -     | -     | ..  | -   | -     | -   | 0.6   | -      |
| 19               | 1.6   | -     | 5.4   | 124.4 | -     | -     | ..  | -   | -     | -   | -     | 9.4    |
| 20               | -     | 29.8  | 1.8   | 71.4  | 0.6   | -     | ..  | -   | -     | -   | -     | -      |
| 21               | 24.8  | 10.0  | -     | 27.6  | -     | -     | ..  | -   | -     | -   | -     | -      |
| 22               | 9.0   | 22.2  | -     | -     | -     | -     | ..  | -   | -     | 0.6 | -     | 12.6   |
| 23               | 8.8   | 42.4  | -     | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 24               | -     | 38.4  | 2.0   | -     | 2.4   | -     | ..  | -   | -     | -   | -     | -      |
| 25               | 0.4   | 2.6   | 22.2  | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 26               | 71.2  | 43.2  | -     | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 27               | 0.8   | 12.4  | -     | -     | -     | -     | ..  | -   | -     | -   | -     | -      |
| 28               | 4.2   | 10.4  | -     | 15.4  | -     | -     | ..  | -   | -     | -   | -     | -      |
| 29               | 4.6   | 12.8  | 2.8   | 15.0  | -     | -     | ..  | -   | ..... | -   | 7.0   | 2.8    |
| 30               | 6.4   | 12.6  | 0.2   | -     | -     | -     | ..  | -   | ..... | -   | 20.4  | -      |
| 31               | ..... | -     | 40.0  | ..... | -     | ..... | ..  | -   | ..... | -   | ..... | 23.4   |
|                  |       |       |       |       |       |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 0     | 0     | 0     | 31  | 0   | 0     | 0   | 0     | 0      |
| Total            | 158.0 | 379.6 | 474.0 | 392.6 | 140.8 | 0.0   | 0.0 | 0.0 | 0.0   | 3.8 | 39.0  | 66.8   |
| Rainy Days       | 19    | 26    | 22    | 14    | 10    | 0     | 0   | 0   | 0     | 2   | 5     | 7      |
| Maximum          | 71.2  | 43.2  | 91.2  | 124.4 | 81.2  | 0.0   | 0.0 | 0.0 | 0.0   | 3.2 | 20.4  | 23.4   |
| Annual Rainfall  |       |       |       |       |       |       |     |     |       |     |       | 1654.6 |

## Daily Rainfall Data

Station Code :ALIPINGAL  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Devi

Station Name :ALIPINGAL  
 Sub-Division :LMSD,CWC,Bhubaneswar

[ - 0.0 .. N.A.]

| Year : 2017-2018 |       |       |       |       |       |       |      |     |       |     |       |        |
|------------------|-------|-------|-------|-------|-------|-------|------|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | 27.4  | -     | -     | 49.2  | -     | -    | -   | -     | -   | -     | 40.4   |
| 2                | -     | 0.8   | -     | 17.2  | 4.6   | -     | -    | -   | -     | -   | 9.0   | -      |
| 3                | 0.6   | -     | -     | -     | 3.8   | -     | -    | -   | -     | -   | 0.4   | 13.0   |
| 4                | -     | 2.8   | 2.4   | -     | 1.4   | -     | -    | -   | -     | -   | -     | -      |
| 5                | 1.4   | -     | 20.2  | -     | 0.4   | -     | -    | -   | -     | -   | 13.2  | -      |
| 6                | -     | -     | -     | -     | 15.4  | -     | -    | -   | -     | -   | -     | -      |
| 7                | -     | 5.6   | -     | -     | 23.8  | -     | -    | -   | -     | -   | 27.8  | -      |
| 8                | -     | 6.8   | 9.4   | -     | -     | -     | 9.0  | -   | -     | -   | -     | -      |
| 9                | 0.2   | 7.2   | 3.6   | -     | 4.4   | -     | 54.8 | -   | -     | -   | -     | -      |
| 10               | 2.0   | 0.6   | -     | -     | 17.4  | -     | -    | -   | -     | -   | 5.2   | -      |
| 11               | 1.8   | 11.8  | -     | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 12               | 0.4   | 30.6  | -     | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 13               | -     | 19.6  | -     | 5.0   | -     | -     | -    | -   | -     | -   | -     | 0.6    |
| 14               | -     | 7.4   | -     | 1.2   | -     | -     | -    | -   | -     | -   | -     | 11.8   |
| 15               | 7.6   | 193.4 | 0.4   | -     | -     | 8.2   | -    | -   | -     | -   | -     | -      |
| 16               | 21.0  | 117.2 | -     | -     | -     | 55.0  | -    | -   | -     | -   | -     | -      |
| 17               | -     | 28.8  | 0.4   | -     | -     | 38.4  | -    | -   | -     | 0.2 | -     | 13.0   |
| 18               | -     | 6.8   | 0.8   | -     | -     | 24.2  | -    | -   | -     | -   | 0.4   | -      |
| 19               | -     | 29.4  | 1.6   | 41.4  | 46.0  | -     | -    | -   | -     | -   | -     | -      |
| 20               | -     | 0.6   | 4.2   | -     | 122.8 | -     | -    | -   | -     | -   | -     | -      |
| 21               | -     | -     | 1.4   | 1.2   | 7.0   | -     | -    | -   | -     | -   | -     | 2.4    |
| 22               | 31.6  | 1.2   | -     | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 23               | -     | 7.8   | -     | -     | -     | -     | -    | -   | -     | -   | -     | 24.4   |
| 24               | 2.6   | 18.4  | 5.2   | -     | -     | -     | -    | -   | -     | -   | 0.6   | -      |
| 25               | 11.2  | 0.8   | 1.6   | 21.2  | -     | -     | -    | -   | -     | -   | -     | -      |
| 26               | 4.6   | 3.2   | -     | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 27               | 0.6   | -     | -     | 0.6   | -     | -     | -    | -   | -     | -   | -     | -      |
| 28               | 0.6   | 0.2   | 44.2  | 2.8   | -     | -     | -    | -   | -     | -   | -     | -      |
| 29               | 0.8   | -     | 24.0  | -     | -     | -     | -    | -   | ..... | -   | 19.6  | -      |
| 30               | 28.6  | 35.8  | 1.8   | 10.4  | -     | -     | -    | -   | ..... | -   | -     | -      |
| 31               | ..... | 0.2   | -     | ..... | -     | ..... | -    | -   | ..... | -   | ..... | 0.6    |
| Missing          | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0   | 0     | 0   | 0     | 0      |
| Total            | 115.6 | 564.4 | 121.2 | 101.0 | 296.2 | 125.8 | 63.8 | 0.0 | 0.0   | 0.2 | 76.2  | 106.2  |
| Rainy Days       | 16    | 25    | 15    | 9     | 12    | 4     | 2    | 0   | 0     | 1   | 8     | 8      |
| Maximum          | 31.6  | 193.4 | 44.2  | 41.4  | 122.8 | 55.0  | 54.8 | 0.0 | 0.0   | 0.2 | 27.8  | 40.4   |
| Annual Rainfall  |       |       |       |       |       |       |      |     |       |     |       | 1570.6 |

## Daily Rainfall Data

Station Code :ARAMPUR  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Sindolijhar

Station Name :ARAMPUR  
 Sub-Division :LMSD,CWC,Bhubaneswar

| Year : 2017-2018 |       |       |       |       |       |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | 8.6   | 1.0   | -     | 4.2   | -     | -   | -   | -     | -   | 22.4  | 25.4   |
| 2                | 8.8   | -     | 7.2   | 28.0  | 1.6   | -     | -   | -   | -     | -   | 1.0   | -      |
| 3                | -     | 0.6   | 1.0   | 39.4  | 6.8   | -     | -   | -   | -     | -   | -     | 17.6   |
| 4                | -     | 19.6  | 1.4   | -     | 1.8   | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | 3.4   | 3.8   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 6                | 11.4  | -     | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 7                | 10.0  | -     | 11.0  | -     | 0.6   | -     | -   | -   | -     | -   | 10.8  | -      |
| 8                | -     | 46.6  | 27.8  | -     | 17.0  | -     | -   | -   | -     | -   | 0.4   | -      |
| 9                | -     | 42.8  | 16.0  | -     | 0.4   | -     | -   | -   | -     | -   | -     | -      |
| 10               | -     | 15.2  | 13.6  | -     | 0.4   | -     | -   | -   | -     | -   | -     | -      |
| 11               | -     | 3.0   | -     | -     | -     | -     | -   | -   | -     | -   | -     | 3.0    |
| 12               | 8.4   | -     | -     | 0.2   | -     | -     | -   | -   | -     | -   | 15.4  | -      |
| 13               | -     | 0.4   | 0.6   | 1.2   | -     | -     | -   | -   | -     | -   | -     | -      |
| 14               | -     | 2.0   | 2.2   | -     | -     | -     | -   | -   | -     | -   | -     | 14.8   |
| 15               | -     | 1.2   | 1.0   | -     | 6.8   | -     | -   | -   | -     | -   | 2.0   | 0.4    |
| 16               | 39.8  | 0.2   | -     | -     | -     | 15.2  | -   | -   | -     | 0.4 | -     | -      |
| 17               | -     | 23.2  | -     | 22.4  | -     | 2.4   | -   | -   | -     | -   | -     | -      |
| 18               | -     | 5.6   | 24.0  | 0.6   | -     | 1.8   | -   | -   | -     | -   | -     | -      |
| 19               | -     | 31.4  | 2.4   | 104.2 | 1.8   | -     | -   | -   | -     | -   | -     | 16.4   |
| 20               | -     | 12.0  | 9.6   | 9.0   | 35.6  | 0.6   | -   | -   | -     | -   | -     | -      |
| 21               | 38.4  | -     | 2.4   | 0.2   | 44.0  | -     | -   | -   | -     | -   | 0.6   | 11.2   |
| 22               | 29.8  | 0.6   | -     | 4.0   | -     | -     | -   | -   | -     | -   | -     | -      |
| 23               | -     | 23.2  | -     | -     | -     | -     | -   | -   | -     | ..  | -     | -      |
| 24               | -     | 21.4  | 90.0  | 1.0   | -     | -     | -   | -   | -     | ..  | 0.6   | -      |
| 25               | 14.0  | 3.2   | -     | -     | 1.2   | -     | -   | -   | -     | ..  | -     | -      |
| 26               | 8.0   | 9.2   | -     | 13.2  | -     | -     | -   | -   | -     | ..  | -     | -      |
| 27               | 66.6  | 2.6   | 8.8   | 10.2  | -     | -     | -   | -   | -     | ..  | -     | -      |
| 28               | 15.0  | -     | 13.2  | -     | -     | -     | -   | -   | -     | ..  | -     | -      |
| 29               | 4.8   | -     | -     | 10.6  | -     | -     | -   | -   | ..... | ..  | 0.2   | -      |
| 30               | 0.4   | -     | -     | -     | -     | -     | -   | -   | ..... | ..  | -     | 3.0    |
| 31               | ..... | 9.4   | -     | ..... | -     | ..... | -   | -   | ..... | ..  | ..... | -      |
| Missing          | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0     | 9   | 0     | 0      |
| Total            | 255.4 | 285.4 | 237.0 | 244.2 | 122.2 | 20.0  | 0.0 | 0.0 | 0.0   | 0.4 | 53.4  | 91.8   |
| Rainy Days       | 13    | 23    | 19    | 14    | 13    | 4     | 0   | 0   | 0     | 1   | 9     | 8      |
| Maximum          | 66.6  | 46.6  | 90.0  | 104.2 | 44.0  | 15.2  | 0.0 | 0.0 | 0.0   | 0.4 | 22.4  | 25.4   |
| Annual Rainfall  |       |       |       |       |       |       |     |     |       |     |       | 1309.8 |

## Daily Rainfall Data

Station Code :001A

Parameter Code :MPS( Rainfall - SRG in mm)

Local River/Basin :Hasdeo

Station Name :Bangodam

Sub-Division :MMSD I,CWC,Raipur

[ - 0.0 .. N.A.]

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | 1.8   | -     | 8.6   | -     | -    | -     | -   | -   | -     | -   | -     | 0.8    |
| 2                | -     | 31.8  | 11.4  | -     | 1.4  | -     | -   | -   | -     | -   | -     | 3.0    |
| 3                | -     | 13.8  | 3.6   | 0.4   | 9.6  | -     | -   | -   | -     | -   | -     | -      |
| 4                | -     | 29.2  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | 17.0  | 59.4  | -     | 3.6  | -     | -   | -   | -     | -   | -     | -      |
| 6                | 5.2   | -     | 0.2   | -     | 1.2  | -     | -   | -   | -     | -   | -     | 2.4    |
| 7                | 2.2   | -     | 3.4   | -     | 2.2  | -     | -   | -   | -     | -   | -     | -      |
| 8                | 4.2   | -     | 6.8   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 9                | -     | 4.2   | 20.8  | -     | -    | -     | -   | -   | -     | -   | 1.8   | -      |
| 10               | 3.2   | 95.0  | 6.6   | 0.8   | -    | -     | -   | -   | -     | -   | -     | -      |
| 11               | -     | 11.6  | 1.2   | -     | -    | -     | -   | -   | -     | -   | 0.8   | -      |
| 12               | -     | 0.4   | 3.0   | 4.0   | -    | -     | -   | -   | 1.2   | -   | 4.0   | -      |
| 13               | -     | -     | -     | -     | -    | -     | -   | -   | 26.4  | -   | 2.2   | 17.6   |
| 14               | -     | 11.0  | -     | -     | -    | -     | -   | -   | -     | -   | 0.4   | -      |
| 15               | -     | 0.6   | -     | -     | -    | 3.2   | -   | -   | -     | -   | -     | -      |
| 16               | 1.2   | 7.6   | -     | -     | -    | -     | -   | -   | -     | 0.4 | -     | -      |
| 17               | -     | 16.2  | 7.0   | -     | -    | -     | -   | -   | -     | 2.2 | -     | -      |
| 18               | -     | 8.4   | 4.2   | 2.4   | -    | -     | -   | -   | -     | -   | -     | 1.0    |
| 19               | 4.2   | -     | -     | 27.8  | -    | -     | -   | -   | -     | -   | -     | -      |
| 20               | 38.8  | 28.6  | 1.2   | 118.4 | -    | -     | -   | -   | -     | -   | -     | -      |
| 21               | 40.8  | 14.6  | 2.2   | 51.4  | -    | -     | -   | -   | -     | 0.6 | -     | -      |
| 22               | 17.0  | 2.8   | 3.4   | -     | -    | -     | -   | -   | -     | 1.0 | -     | -      |
| 23               | 0.4   | 39.6  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 24               | 0.8   | 28.2  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 25               | 10.4  | 17.6  | 7.6   | -     | -    | -     | -   | -   | 5.8   | -   | -     | -      |
| 26               | 1.6   | 20.0  | 34.0  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 27               | 6.4   | 11.4  | 3.6   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 28               | 11.0  | -     | 31.2  | 2.4   | -    | -     | -   | -   | -     | -   | 21.6  | -      |
| 29               | 23.4  | -     | 6.2   | 0.8   | -    | -     | -   | -   | ..... | -   | -     | -      |
| 30               | 1.0   | -     | 3.0   | -     | -    | -     | -   | -   | ..... | -   | -     | 0.6    |
| 31               | ..... | -     | -     | ..... | -    | ..... | -   | -   | ..... | -   | ..... | -      |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 173.6 | 409.6 | 228.6 | 208.4 | 18.0 | 3.2   | 0.0 | 0.0 | 33.4  | 4.2 | 30.8  | 25.4   |
| Rainy Days       | 18    | 21    | 22    | 9     | 5    | 1     | 0   | 0   | 3     | 4   | 6     | 6      |
| Maximum          | 40.8  | 95.0  | 59.4  | 118.4 | 9.6  | 3.2   | 0.0 | 0.0 | 26.4  | 2.2 | 21.6  | 17.6   |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1135.2 |

## Daily Rainfall Data

Station Code :0012B

Station Name :DEOGAON

Parameter Code :MPS( Rainfall - SRG in mm)

Sub-Division :MMSD-II,CWC,Burla

Local River/Basin :Mahanadi

| Year : 2017-2018 |       |       |     |       |      |       |     |     |       |     |       |           |
|------------------|-------|-------|-----|-------|------|-------|-----|-----|-------|-----|-------|-----------|
| Day              | Jun   | Jul   | Aug | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May       |
| 1                | -     | 5.2   | -   | 0.4   | 22.2 | -     | -   | -   | -     | -   | -     | 22.8      |
| 2                | 6.6   | -     | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 3                | -     | 14.4  | -   | -     | -    | -     | -   | -   | -     | -   | -     | 2.6       |
| 4                | -     | 1.8   | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 5                | -     | -     | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 6                | -     | 21.4  | -   | 7.2   | -    | -     | -   | -   | -     | -   | -     | -         |
| 7                | -     | -     | -   | -     | 5.0  | -     | -   | -   | -     | -   | 4.2   | -         |
| 8                | -     | 2.0   | -   | -     | 21.4 | -     | -   | -   | -     | -   | 4.4   | -         |
| 9                | 0.4   | 36.4  | -   | 19.2  | -    | -     | -   | -   | -     | 0.8 | -     | -         |
| 10               | -     | 22.8  | -   | -     | -    | -     | -   | -   | -     | -   | 8.6   | -         |
| 11               | 5.6   | -     | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 12               | -     | 9.4   | -   | -     | -    | -     | -   | -   | 3.0   | -   | -     | 10.2      |
| 13               | -     | 14.4  | -   | 2.2   | -    | -     | -   | -   | -     | -   | -     | -         |
| 14               | -     | -     | -   | -     | -    | -     | -   | -   | -     | -   | -     | 40.2      |
| 15               | -     | -     | -   | -     | -    | -     | -   | -   | -     | -   | -     | 12.8      |
| 16               | 45.2  | 16.6  | -   | -     | -    | 2.6   | -   | -   | -     | -   | -     | -         |
| 17               | -     | 14.0  | -   | 6.2   | -    | 1.4   | -   | -   | -     | 0.8 | -     | -         |
| 18               | -     | 7.6   | -   | 4.8   | -    | -     | -   | -   | -     | -   | -     | -         |
| 19               | -     | 16.4  | -   | 69.6  | 21.2 | -     | -   | -   | -     | -   | -     | 19.2      |
| 20               | 2.0   | 10.6  | -   | 23.6  | 18.6 | -     | -   | -   | -     | -   | -     | -         |
| 21               | 29.2  | -     | -   | 7.4   | 0.4  | -     | -   | -   | -     | -   | -     | 11.2      |
| 22               | 53.2  | 3.6   | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 23               | 79.2  | 26.2  | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 24               | -     | 14.8  | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 25               | 13.4  | -     | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 26               | 12.2  | 8.2   | -   | -     | -    | -     | -   | -   | -     | -   | -     | 0.6       |
| 27               | 3.6   | 5.0   | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 28               | 77.2  | 1.2   | -   | -     | -    | -     | -   | -   | -     | -   | -     | -         |
| 29               | 3.4   | -     | -   | -     | -    | -     | -   | -   | ..... | -   | -     | -         |
| 30               | 32.8  | -     | -   | 0.6   | -    | -     | -   | -   | ..... | -   | -     | -         |
| 31               | ..... | -     | -   | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 7.8       |
| Missing          | 0     | 0     | 0   | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0         |
| Total            | 364.0 | 252.0 | 0.0 | 141.2 | 88.8 | 4.0   | 0.0 | 0.0 | 3.0   | 1.6 | 17.2  | 127.4     |
| Rainy Days       | 14    | 20    | 0   | 10    | 6    | 2     | 0   | 0   | 1     | 2   | 3     | 9         |
| Maximum          | 79.2  | 36.4  | 0.0 | 69.6  | 22.2 | 2.6   | 0.0 | 0.0 | 3.0   | 0.8 | 8.6   | 40.2      |
| Annual Rainfall  |       |       |     |       |      |       |     |     |       |     |       | 999.19999 |

## Daily Rainfall Data

Station Code :002B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Mand

Station Name :DHARAMJAIGARH  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | 6.8   | -     | 5.4   | -     | 16.6 | ..    | -   | -   | -     | -   | -     | -      |
| 2                | -     | -     | 10.0  | 12.8  | 2.6  | ..    | -   | -   | -     | -   | -     | -      |
| 3                | -     | 53.0  | -     | 4.2   | -    | ..    | -   | -   | -     | -   | -     | 0.6    |
| 4                | -     | 26.4  | -     | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 5                | -     | 1.4   | 18.0  | -     | -    | ..    | -   | -   | -     | -   | -     | 5.2    |
| 6                | -     | -     | 4.6   | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 7                | -     | -     | 1.2   | -     | 4.8  | ..    | -   | -   | -     | -   | -     | -      |
| 8                | 13.0  | -     | 4.8   | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 9                | -     | 10.8  | -     | 16.4  | -    | ..    | -   | -   | -     | -   | -     | -      |
| 10               | -     | 47.0  | 4.6   | 11.4  | -    | ..    | -   | -   | -     | -   | -     | -      |
| 11               | -     | 2.4   | -     | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 12               | -     | -     | 2.8   | -     | -    | ..    | -   | -   | 2.2   | -   | 1.6   | -      |
| 13               | -     | -     | -     | -     | -    | ..    | -   | -   | 1.2   | -   | -     | -      |
| 14               | 23.4  | 27.6  | 25.6  | 6.8   | 14.0 | ..    | -   | -   | 15.6  | -   | -     | 2.2    |
| 15               | -     | 9.0   | 1.4   | -     | -    | ..    | -   | -   | -     | -   | -     | 7.4    |
| 16               | -     | 20.0  | -     | 3.6   | -    | ..    | -   | -   | -     | -   | -     | -      |
| 17               | -     | 6.4   | 18.6  | 0.6   | -    | ..    | -   | -   | -     | -   | -     | -      |
| 18               | 6.8   | 6.6   | -     | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 19               | 1.4   | 1.6   | -     | 10.4  | -    | ..    | -   | -   | -     | -   | -     | 0.2    |
| 20               | 33.8  | 31.0  | 1.2   | 15.0  | 2.0  | ..    | -   | -   | -     | -   | -     | -      |
| 21               | 57.0  | 11.4  | -     | 41.0  | 2.0  | ..    | -   | -   | -     | -   | -     | 6.4    |
| 22               | 2.8   | 47.6  | -     | 25.8  | -    | ..    | -   | -   | -     | -   | -     | -      |
| 23               | -     | 31.8  | -     | 3.6   | -    | ..    | -   | -   | -     | -   | -     | -      |
| 24               | -     | 25.4  | -     | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 25               | 10.8  | 39.0  | 1.2   | -     | -    | ..    | -   | -   | -     | -   | -     | 42.8   |
| 26               | 9.0   | 57.4  | 8.2   | -     | -    | ..    | -   | -   | 2.4   | -   | -     | -      |
| 27               | 7.8   | 7.0   | -     | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 28               | 86.6  | 0.8   | 15.4  | -     | -    | ..    | -   | -   | -     | -   | -     | -      |
| 29               | -     | -     | 5.6   | 2.0   | -    | ..    | -   | -   | ..... | -   | -     | -      |
| 30               | 5.8   | -     | -     | 9.0   | -    | ..    | -   | -   | ..... | -   | -     | -      |
| 31               | ..... | -     | -     | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 6.6    |
| Missing          | 0     | 0     | 0     | 0     | 0    | 30    | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 265.0 | 463.6 | 128.6 | 162.6 | 42.0 | 0.0   | 0.0 | 0.0 | 21.4  | 0.0 | 1.6   | 71.4   |
| Rainy Days       | 13    | 21    | 16    | 14    | 6    | 0     | 0   | 0   | 4     | 0   | 1     | 8      |
| Maximum          | 86.6  | 57.4  | 25.6  | 41.0  | 16.6 | 0.0   | 0.0 | 0.0 | 15.6  | 0.0 | 1.6   | 42.8   |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1156.2 |

## Daily Rainfall Data

Station Code :008B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Mahanadi

Station Name :JAMADARPALI  
 Sub-Division :MMSD II ,CWC,Bu

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | 6.0   | -     | -     | -     | 10.2 | -     | -   | -   | -     | -   | -     | 45.6   |
| 2                | 1.2   | -     | -     | -     | 0.4  | -     | -   | -   | -     | -   | -     | -      |
| 3                | -     | 6.8   | 3.6   | 19.4  | 4.4  | -     | -   | -   | -     | -   | -     | 15.4   |
| 4                | -     | 13.6  | 1.8   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | 3.8   | 64.8  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 6                | 1.6   | 1.6   | 20.0  | 41.4  | 0.4  | -     | -   | -   | -     | -   | -     | -      |
| 7                | 1.2   | -     | 12.0  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 8                | 2.6   | 10.4  | 0.6   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 9                | -     | 25.4  | 1.2   | -     | 8.6  | -     | -   | -   | -     | -   | -     | -      |
| 10               | -     | 13.2  | 1.2   | -     | 0.6  | -     | -   | -   | -     | -   | -     | -      |
| 11               | -     | -     | 5.8   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 12               | -     | 9.6   | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 13               | 7.4   | 0.6   | 5.4   | 1.0   | -    | -     | -   | -   | -     | -   | -     | -      |
| 14               | 7.2   | 27.0  | 1.0   | 23.8  | -    | -     | -   | -   | -     | -   | -     | 81.4   |
| 15               | -     | -     | 2.6   | -     | -    | 1.6   | -   | -   | -     | -   | 1.2   | 6.0    |
| 16               | 56.6  | 18.2  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 17               | -     | 15.8  | 72.2  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 18               | -     | 13.2  | 17.6  | 12.8  | -    | -     | -   | -   | -     | -   | -     | -      |
| 19               | 2.0   | -     | 0.6   | 31.2  | 3.0  | -     | -   | -   | -     | -   | -     | 26.6   |
| 20               | 3.4   | 44.6  | 7.8   | 28.8  | 2.0  | -     | -   | -   | -     | -   | -     | -      |
| 21               | 92.4  | 2.2   | -     | 25.8  | -    | -     | -   | -   | -     | -   | -     | 15.8   |
| 22               | 67.8  | 2.6   | -     | -     | -    | -     | -   | -   | -     | -   | -     | 12.4   |
| 23               | 6.4   | 29.8  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 24               | 1.6   | 37.8  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 25               | 15.8  | 3.2   | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 26               | 3.4   | 9.6   | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 27               | -     | 11.0  | 20.0  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 28               | 30.0  | 33.6  | 0.8   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 29               | 4.8   | -     | -     | 1.2   | -    | -     | -   | -   | ..... | -   | 2.6   | -      |
| 30               | 2.0   | -     | -     | 21.4  | -    | -     | -   | -   | ..... | -   | 20.8  | 26.4   |
| 31               | ..... | -     | 1.2   | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 117.6  |
|                  |       |       |       |       |      |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 313.4 | 333.6 | 240.2 | 206.8 | 29.6 | 1.6   | 0.0 | 0.0 | 0.0   | 0.0 | 24.6  | 347.2  |
| Rainy Days       | 19    | 22    | 19    | 10    | 8    | 1     | 0   | 0   | 0     | 0   | 3     | 9      |
| Maximum          | 92.4  | 44.6  | 72.2  | 41.4  | 10.2 | 1.6   | 0.0 | 0.0 | 0.0   | 0.0 | 20.8  | 117.6  |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1497.0 |

## Daily Rainfall Data

Station Code :007B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Mahanadi

Station Name :KHAIRMAL  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |       |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | 23.0  | 15.8  | 1.6   | 0.8   | -     | -   | -   | -     | -   | -     | 11.0   |
| 2                | 1.0   | 0.2   | 9.0   | 18.2  | 14.2  | -     | -   | -   | -     | -   | -     | -      |
| 3                | -     | 0.6   | 1.6   | 38.8  | 2.6   | -     | -   | -   | -     | -   | -     | -      |
| 4                | -     | 18.4  | 0.8   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 5                | 0.2   | 1.4   | 1.4   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 6                | 5.6   | 4.2   | 3.4   | 3.2   | 19.2  | -     | -   | -   | -     | -   | -     | -      |
| 7                | -     | -     | -     | -     | 5.2   | -     | -   | -   | -     | -   | -     | -      |
| 8                | 1.2   | 4.0   | -     | -     | 64.0  | -     | -   | -   | -     | -   | 13.8  | -      |
| 9                | -     | 0.6   | -     | -     | -     | -     | -   | -   | -     | -   | 6.0   | -      |
| 10               | -     | 14.2  | -     | 1.6   | 3.4   | -     | -   | -   | -     | -   | -     | -      |
| 11               | -     | 7.4   | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 12               | -     | 7.2   | 9.8   | -     | -     | -     | -   | -   | 2.0   | -   | -     | -      |
| 13               | -     | 0.8   | 12.8  | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 14               | -     | 2.8   | 3.0   | -     | -     | -     | -   | -   | -     | -   | -     | 16.0   |
| 15               | -     | 18.4  | -     | -     | -     | -     | -   | -   | -     | -   | -     | 11.8   |
| 16               | 50.0  | 7.8   | -     | -     | -     | 2.0   | -   | -   | -     | -   | -     | -      |
| 17               | -     | 6.2   | 24.8  | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 18               | -     | 6.6   | 9.0   | -     | -     | 1.2   | -   | -   | -     | -   | 0.8   | -      |
| 19               | 9.8   | 13.6  | -     | 36.8  | 1.0   | -     | -   | -   | -     | -   | -     | 6.4    |
| 20               | 1.4   | 0.4   | -     | 10.0  | 7.6   | -     | -   | -   | -     | -   | -     | -      |
| 21               | 21.0  | -     | -     | 12.0  | 63.0  | -     | -   | -   | -     | -   | 1.4   | 6.0    |
| 22               | 53.8  | -     | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 23               | 0.4   | 42.4  | 1.2   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 24               | -     | 4.0   | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 25               | 51.2  | -     | 8.0   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 26               | 14.6  | 3.8   | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 27               | 2.8   | 1.6   | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 28               | 19.2  | 5.0   | 17.2  | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 29               | 2.4   | -     | 3.8   | 7.6   | -     | -     | -   | -   | ..... | -   | 0.8   | -      |
| 30               | 1.2   | -     | -     | 33.2  | -     | -     | -   | -   | ..... | -   | 9.2   | 5.6    |
| 31               | ..... | 9.2   | 25.2  | ..... | 2.0   | ..... | -   | -   | ..... | -   | ..... | 3.0    |
|                  |       |       |       |       |       |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 235.8 | 203.8 | 146.8 | 163.0 | 183.0 | 3.2   | 0.0 | 0.0 | 2.0   | 0.0 | 32.0  | 59.8   |
| Rainy Days       | 16    | 25    | 16    | 10    | 11    | 2     | 0   | 0   | 1     | 0   | 6     | 7      |
| Maximum          | 53.8  | 42.4  | 25.2  | 38.8  | 64.0  | 2.0   | 0.0 | 0.0 | 2.0   | 0.0 | 13.8  | 16.0   |
| Annual Rainfall  |       |       |       |       |       |       |     |     |       |     |       | 1029.4 |

## Daily Rainfall Data

Station Code :KHANDAPARA  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Kusumi

Station Name :KHANDAPARA  
 Sub-Division :LMSD,CWC,Bhubaneswar

| Year : 2017-2018 |       |       |       |       |       |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | 20.4  | 17.8  | 22.0  | 22.6  | ..    | -   | -   | -     | -   | -     | 23.2   |
| 2                | -     | 0.6   | 21.2  | 18.6  | 1.8   | ..    | -   | -   | -     | -   | 4.2   | -      |
| 3                | -     | -     | 12.6  | 15.2  | -     | ..    | -   | -   | -     | -   | -     | 36.4   |
| 4                | -     | -     | 0.2   | -     | -     | ..    | -   | -   | -     | -   | -     | -      |
| 5                | 9.2   | -     | 13.2  | -     | -     | ..    | -   | -   | -     | -   | 0.8   | -      |
| 6                | 5.4   | -     | 1.0   | -     | -     | ..    | -   | -   | -     | -   | -     | -      |
| 7                | -     | -     | -     | -     | -     | ..    | -   | -   | -     | -   | 0.4   | 2.6    |
| 8                | -     | 31.0  | 8.2   | -     | -     | ..    | -   | -   | -     | -   | -     | -      |
| 9                | 9.8   | 9.8   | 2.8   | -     | -     | ..    | -   | -   | -     | -   | 18.0  | -      |
| 10               | -     | -     | 44.0  | -     | 17.0  | ..    | -   | -   | -     | -   | -     | -      |
| 11               | 28.0  | 45.6  | 15.4  | -     | -     | ..    | -   | -   | -     | -   | -     | 7.2    |
| 12               | -     | -     | 8.2   | -     | -     | ..    | -   | -   | -     | -   | 1.4   | -      |
| 13               | 6.4   | 17.6  | 1.6   | 15.2  | -     | ..    | -   | -   | -     | -   | 2.8   | -      |
| 14               | -     | 5.6   | 2.6   | 45.0  | -     | ..    | -   | -   | -     | -   | 12.2  | -      |
| 15               | 6.4   | 3.8   | -     | -     | 1.4   | ..    | -   | -   | -     | -   | 5.8   | 19.4   |
| 16               | 42.6  | 4.2   | 0.2   | 0.2   | -     | ..    | -   | -   | -     | -   | -     | -      |
| 17               | -     | 22.6  | -     | -     | -     | ..    | -   | -   | -     | 1.0 | -     | -      |
| 18               | -     | 52.0  | 41.0  | -     | -     | ..    | -   | -   | -     | -   | 9.8   | -      |
| 19               | -     | 30.2  | 19.6  | 35.6  | 12.6  | ..    | -   | -   | -     | -   | -     | 14.2   |
| 20               | -     | 20.2  | 45.6  | 0.4   | 68.2  | ..    | -   | -   | -     | -   | 6.2   | -      |
| 21               | 3.8   | -     | 1.0   | -     | 36.8  | ..    | -   | -   | -     | -   | -     | 25.0   |
| 22               | 3.4   | -     | -     | -     | -     | ..    | -   | -   | -     | -   | -     | -      |
| 23               | -     | 12.2  | -     | -     | -     | ..    | -   | -   | -     | -   | -     | -      |
| 24               | -     | 11.4  | 33.8  | 4.8   | -     | ..    | -   | -   | -     | -   | 11.6  | -      |
| 25               | 8.2   | -     | 2.0   | 0.8   | -     | ..    | -   | -   | -     | -   | -     | -      |
| 26               | 13.8  | -     | -     | 2.0   | -     | ..    | -   | -   | -     | -   | -     | -      |
| 27               | 11.0  | 12.2  | -     | -     | -     | ..    | -   | -   | -     | -   | -     | -      |
| 28               | 2.2   | 4.8   | 35.4  | 0.2   | -     | ..    | -   | -   | -     | -   | -     | -      |
| 29               | 2.8   | 6.6   | 10.6  | -     | -     | ..    | -   | -   | ..... | -   | 8.4   | 1.0    |
| 30               | -     | 46.2  | 1.2   | 2.0   | -     | ..    | -   | -   | ..... | -   | -     | -      |
| 31               | ..... | -     | -     | ..... | -     | ..... | -   | -   | ..... | -   | ..... | -      |
|                  |       |       |       |       |       |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 0     | 0     | 30    | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 153.0 | 357.0 | 339.2 | 162.0 | 160.4 | 0.0   | 0.0 | 0.0 | 0.0   | 1.0 | 81.6  | 129.0  |
| Rainy Days       | 14    | 19    | 23    | 13    | 7     | 0     | 0   | 0   | 0     | 1   | 12    | 8      |
| Maximum          | 42.6  | 52.0  | 45.6  | 45.0  | 68.2  | 0.0   | 0.0 | 0.0 | 0.0   | 1.0 | 18.0  | 36.4   |
| Annual Rainfall  |       |       |       |       |       |       |     |     |       |     |       | 1383.2 |

## Daily Rainfall Data

Station Code :002A

Parameter Code :MPS( Rainfall - SRG in mm)

Local River/Basin :Hasdeo

Station Name :Korba

Sub-Division :MMSD-I,CWC,Raipur

[ - 0.0 .. N.A.]

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | -     | 4.6   | -     | 1.6  | -     | -   | -   | -     | -   | 11.2  | -      |
| 2                | -     | 34.4  | 2.4   | -     | 1.2  | -     | -   | -   | -     | -   | -     | -      |
| 3                | -     | 14.0  | 37.8  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 4                | -     | 20.6  | -     | 22.4  | 7.8  | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | 28.2  | 26.0  | -     | 1.2  | -     | -   | -   | -     | -   | -     | -      |
| 6                | -     | 0.4   | -     | 31.0  | 2.2  | -     | -   | -   | -     | -   | -     | -      |
| 7                | 0.6   | -     | 5.8   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 8                | -     | 2.2   | 6.8   | -     | 16.6 | -     | -   | -   | -     | -   | -     | -      |
| 9                | -     | 2.2   | 6.0   | 2.2   | -    | -     | -   | -   | -     | -   | -     | -      |
| 10               | -     | 87.8  | 2.2   | 1.2   | -    | -     | -   | -   | -     | -   | -     | 0.6    |
| 11               | -     | 10.2  | 2.2   | 45.8  | -    | -     | -   | -   | -     | -   | -     | -      |
| 12               | 1.2   | -     | -     | 1.2   | -    | -     | -   | -   | 12.8  | -   | 7.2   | -      |
| 13               | -     | 6.2   | -     | 12.8  | -    | -     | -   | -   | 1.8   | -   | 2.2   | -      |
| 14               | -     | -     | -     | -     | -    | -     | -   | -   | 13.8  | -   | 0.2   | -      |
| 15               | -     | 0.2   | -     | 24.0  | -    | -     | -   | -   | -     | -   | -     | 23.4   |
| 16               | -     | 34.6  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 17               | -     | 14.0  | 8.4   | 25.8  | -    | -     | -   | -   | -     | -   | -     | -      |
| 18               | 8.2   | 38.2  | -     | 2.8   | -    | -     | -   | -   | -     | -   | -     | -      |
| 19               | -     | -     | -     | 24.2  | 1.8  | -     | -   | -   | -     | -   | -     | -      |
| 20               | 32.4  | 117.2 | 4.2   | 17.8  | -    | -     | -   | -   | -     | -   | -     | -      |
| 21               | 24.2  | 20.8  | 2.6   | 51.8  | -    | -     | -   | -   | -     | -   | -     | -      |
| 22               | 34.4  | 15.0  | 4.4   | 5.2   | -    | -     | -   | -   | -     | -   | -     | -      |
| 23               | 12.6  | 58.8  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 24               | -     | 23.6  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 25               | 35.4  | 5.2   | 40.6  | -     | -    | -     | -   | -   | -     | -   | -     | 95.2   |
| 26               | 10.2  | 13.0  | 20.2  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 27               | 18.2  | 9.6   | 14.2  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 28               | 30.8  | 1.8   | 18.2  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 29               | 1.6   | -     | 8.8   | 1.0   | -    | -     | -   | -   | ..... | -   | -     | -      |
| 30               | 7.6   | -     | 0.4   | -     | -    | -     | -   | -   | ..... | -   | -     | -      |
| 31               | ..... | -     | -     | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 3.2    |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 217.4 | 558.2 | 215.8 | 269.2 | 32.4 | 0.0   | 0.0 | 0.0 | 28.4  | 0.0 | 20.8  | 122.4  |
| Rainy Days       | 13    | 23    | 19    | 15    | 7    | 0     | 0   | 0   | 3     | 0   | 4     | 4      |
| Maximum          | 35.4  | 117.2 | 40.6  | 51.8  | 16.6 | 0.0   | 0.0 | 0.0 | 13.8  | 0.0 | 11.2  | 95.2   |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1464.6 |

## Daily Rainfall Data

Station Code :0010B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Bheden

Station Name :MOHULPALI  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | 4.8   | 4.4   | 19.8  | 10.4 | -     | -   | -   | -     | -   | 16.4  | -      |
| 2                | 1.2   | 1.0   | -     | -     | 23.2 | -     | -   | -   | -     | -   | 4.6   | -      |
| 3                | -     | 17.0  | 6.4   | -     | 4.4  | -     | -   | -   | -     | -   | -     | 0.2    |
| 4                | -     | 28.2  | 18.0  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | 0.4   | 10.8  | -     | 1.8  | -     | -   | -   | -     | -   | -     | -      |
| 6                | 15.6  | 15.0  | 45.0  | 1.4   | 0.4  | -     | -   | -   | -     | -   | -     | -      |
| 7                | 4.4   | 6.4   | 7.0   | -     | -    | -     | -   | -   | -     | -   | 14.6  | -      |
| 8                | 6.0   | 23.8  | 12.6  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 9                | -     | -     | 0.8   | -     | 7.6  | -     | -   | -   | -     | -   | -     | -      |
| 10               | -     | 27.8  | 0.4   | -     | 4.8  | -     | -   | -   | -     | -   | 1.8   | -      |
| 11               | 7.6   | -     | 0.4   | -     | -    | -     | -   | -   | -     | -   | 5.8   | -      |
| 12               | 1.2   | -     | 53.0  | 0.8   | -    | -     | -   | -   | -     | -   | -     | -      |
| 13               | 2.2   | 2.8   | 14.2  | -     | -    | -     | -   | -   | -     | -   | -     | 8.8    |
| 14               | -     | 3.6   | 4.0   | -     | -    | -     | -   | -   | -     | -   | -     | 1.8    |
| 15               | -     | 0.8   | 15.0  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 16               | 17.0  | 92.2  | 2.0   | -     | -    | -     | -   | -   | -     | 3.2 | -     | 8.2    |
| 17               | -     | 16.8  | 53.0  | 26.2  | -    | 0.4   | -   | -   | -     | -   | 14.2  | 11.6   |
| 18               | -     | 3.8   | -     | 31.0  | -    | -     | -   | -   | -     | -   | 1.4   | -      |
| 19               | 1.2   | -     | 3.6   | 233.4 | -    | -     | -   | -   | -     | -   | -     | 12.0   |
| 20               | -     | 62.4  | -     | 25.4  | 3.8  | -     | -   | -   | -     | -   | -     | -      |
| 21               | 73.8  | 15.6  | -     | 44.2  | -    | -     | -   | -   | -     | -   | -     | 3.4    |
| 22               | 65.0  | 38.0  | -     | 4.4   | -    | -     | -   | -   | -     | -   | 2.0   | -      |
| 23               | -     | 51.4  | 5.2   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 24               | 0.6   | 110.8 | 20.0  | -     | 0.4  | -     | -   | -   | -     | -   | -     | -      |
| 25               | 16.2  | 19.4  | 73.6  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 26               | 13.0  | 54.0  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 27               | 21.6  | 3.8   | 5.4   | -     | 4.4  | -     | -   | -   | -     | -   | -     | -      |
| 28               | 20.0  | 4.2   | -     | 0.6   | -    | -     | -   | -   | -     | -   | -     | -      |
| 29               | 2.2   | -     | 9.0   | -     | -    | -     | -   | -   | ..... | -   | 16.4  | 13.2   |
| 30               | -     | 18.6  | -     | 10.4  | -    | -     | -   | -   | ..... | -   | 1.0   | 12.8   |
| 31               | ..... | 2.6   | -     | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 8.0    |
|                  |       |       |       |       |      |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 268.8 | 625.2 | 363.8 | 397.6 | 61.2 | 0.4   | 0.0 | 0.0 | 0.0   | 3.2 | 78.2  | 80.0   |
| Rainy Days       | 17    | 26    | 22    | 11    | 10   | 1     | 0   | 0   | 0     | 1   | 10    | 10     |
| Maximum          | 73.8  | 110.8 | 73.6  | 233.4 | 23.2 | 0.4   | 0.0 | 0.0 | 0.0   | 3.2 | 16.4  | 13.2   |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1878.4 |

## Daily Rainfall Data

Station Code :NIMAPARA  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Kushabhadra

Station Name :NIMAPARA  
 Sub-Division :LMSD,CWC,Bhubaneswar

| Year : 2017-2018 |       |       |       |       |       |       |      |     |       |     |       |       |
|------------------|-------|-------|-------|-------|-------|-------|------|-----|-------|-----|-------|-------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | Jan | Feb   | Mar | Apr   | May   |
| 1                | -     | 2.8   | 0.4   | 4.4   | 30.4  | -     | -    | -   | -     | -   | -     | 38.4  |
| 2                | -     | 0.2   | 0.8   | 81.8  | 2.8   | -     | -    | -   | -     | -   | 15.0  | -     |
| 3                | -     | 0.2   | 5.2   | 13.2  | 2.0   | -     | -    | -   | -     | -   | -     | 2.8   |
| 4                | -     | 4.0   | 3.4   | -     | 0.8   | -     | -    | -   | -     | -   | -     | -     |
| 5                | 41.0  | -     | 22.0  | 1.8   | 69.0  | -     | -    | -   | -     | -   | 8.2   | -     |
| 6                | -     | -     | 21.2  | -     | 9.8   | -     | -    | -   | -     | -   | 0.4   | -     |
| 7                | -     | 4.8   | -     | -     | 75.6  | -     | -    | -   | -     | -   | 3.2   | -     |
| 8                | -     | 21.0  | 23.8  | 10.4  | -     | -     | 0.6  | -   | -     | -   | 0.2   | -     |
| 9                | -     | 6.2   | 26.6  | -     | 15.8  | -     | 62.4 | -   | -     | -   | -     | -     |
| 10               | 0.6   | -     | 6.2   | -     | 4.4   | -     | 0.6  | -   | -     | -   | -     | -     |
| 11               | -     | 37.4  | 4.6   | -     | -     | -     | -    | -   | -     | -   | -     | -     |
| 12               | -     | 10.4  | 4.4   | 0.8   | -     | -     | -    | -   | -     | -   | -     | -     |
| 13               | -     | 2.6   | -     | 44.2  | 3.6   | -     | -    | -   | -     | -   | -     | 9.4   |
| 14               | -     | 28.6  | 64.0  | 1.2   | -     | -     | -    | -   | -     | -   | -     | 28.8  |
| 15               | 5.8   | 18.4  | 0.4   | -     | -     | 12.6  | -    | -   | -     | -   | 0.6   | -     |
| 16               | 17.8  | 2.8   | -     | 13.0  | -     | 59.0  | -    | -   | -     | -   | -     | -     |
| 17               | -     | 11.8  | 0.8   | -     | -     | 23.2  | -    | -   | -     | 0.8 | -     | 9.2   |
| 18               | -     | 12.8  | 26.4  | 0.6   | -     | 5.0   | -    | -   | -     | -   | -     | -     |
| 19               | -     | 13.8  | 3.0   | 12.8  | 66.0  | 0.4   | -    | -   | -     | -   | -     | 0.4   |
| 20               | -     | -     | 4.0   | 2.4   | 126.4 | -     | -    | -   | -     | -   | -     | -     |
| 21               | -     | -     | 1.6   | 0.6   | 7.8   | -     | -    | -   | -     | -   | -     | -     |
| 22               | 0.4   | 0.6   | -     | 3.8   | -     | -     | -    | -   | -     | -   | -     | -     |
| 23               | -     | 4.8   | -     | -     | -     | -     | -    | -   | -     | -   | -     | 34.4  |
| 24               | 2.0   | 1.6   | 0.2   | -     | -     | -     | -    | -   | -     | -   | 3.4   | -     |
| 25               | 12.2  | -     | 0.4   | 10.4  | -     | -     | -    | -   | -     | -   | -     | -     |
| 26               | 3.0   | -     | 4.2   | 0.6   | -     | -     | -    | -   | -     | -   | -     | -     |
| 27               | 1.0   | -     | -     | 0.4   | -     | -     | -    | -   | -     | -   | -     | -     |
| 28               | -     | -     | 11.0  | 1.0   | -     | -     | -    | -   | -     | -   | -     | -     |
| 29               | -     | -     | 55.8  | 21.8  | -     | -     | -    | -   | ..... | -   | 19.8  | -     |
| 30               | -     | -     | 19.0  | 34.0  | -     | -     | -    | -   | ..... | -   | -     | -     |
| 31               | ..... | -     | 2.0   | ..... | -     | ..... | -    | -   | ..... | -   | ..... | 10.6  |
|                  |       |       |       |       |       |       |      |     |       |     |       |       |
| Missing          | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0   | 0     | 0   | 0     | 0     |
| Total            | 83.8  | 184.8 | 311.4 | 259.2 | 414.4 | 100.2 | 63.6 | 0.0 | 0.0   | 0.8 | 50.8  | 134.0 |
| Rainy Days       | 9     | 19    | 25    | 20    | 13    | 5     | 3    | 0   | 0     | 1   | 8     | 8     |
| Maximum          | 41.0  | 37.4  | 64.0  | 81.8  | 126.4 | 59.0  | 62.4 | 0.0 | 0.0   | 0.8 | 19.8  | 38.4  |
| Annual Rainfall  |       |       |       |       |       |       |      |     |       |     |       | 1603  |

## Daily Rainfall Data

Station Code :PADMAVATI  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Mahanadi

Station Name :PADMAVATI  
 Sub-Division :LMSD,CWC,Bhubaneswar

| Year : 2017-2018 |       |       |       |       |     |       |     |     |       |     |       |       |
|------------------|-------|-------|-------|-------|-----|-------|-----|-----|-------|-----|-------|-------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct | Nov   | Dec | Jan | Feb   | Mar | Apr   | May   |
| 1                | -     | -     | -     | -     | ..  | -     | -   | -   | -     | -   | 4.2   | 26.4  |
| 2                | -     | -     | -     | 10.0  | ..  | -     | -   | -   | -     | -   | 4.6   | -     |
| 3                | -     | -     | 19.6  | 1.2   | ..  | -     | -   | -   | -     | -   | -     | 6.2   |
| 4                | -     | -     | -     | 14.2  | ..  | -     | -   | -   | -     | -   | -     | -     |
| 5                | -     | -     | 10.0  | -     | ..  | -     | -   | -   | -     | -   | 1.4   | -     |
| 6                | -     | -     | 1.6   | -     | ..  | -     | -   | -   | -     | -   | -     | -     |
| 7                | -     | 2.2   | -     | -     | ..  | -     | -   | -   | -     | -   | -     | 0.6   |
| 8                | -     | 61.0  | -     | 0.6   | ..  | -     | -   | -   | -     | -   | 1.4   | -     |
| 9                | -     | -     | 12.4  | -     | ..  | -     | -   | -   | -     | -   | -     | -     |
| 10               | -     | -     | 3.2   | -     | ..  | -     | -   | -   | -     | -   | 46.4  | -     |
| 11               | -     | 30.2  | 1.8   | 2.0   | ..  | -     | -   | -   | -     | -   | -     | 6.0   |
| 12               | -     | -     | -     | -     | ..  | -     | -   | -   | -     | -   | -     | 4.6   |
| 13               | -     | 40.0  | -     | 1.8   | ..  | -     | -   | -   | -     | -   | 4.4   | -     |
| 14               | -     | 22.8  | 10.0  | 5.6   | ..  | -     | -   | -   | -     | -   | -     | 21.0  |
| 15               | 9.0   | 4.2   | -     | -     | ..  | 21.6  | -   | -   | -     | -   | -     | -     |
| 16               | 5.0   | -     | -     | 40.0  | ..  | 4.0   | -   | -   | -     | -   | -     | -     |
| 17               | -     | 20.0  | -     | -     | ..  | 8.2   | -   | -   | -     | 2.0 | -     | -     |
| 18               | -     | 59.8  | 42.2  | -     | ..  | 10.0  | -   | -   | -     | -   | 6.0   | -     |
| 19               | -     | 20.2  | 19.8  | 24.0  | ..  | -     | -   | -   | -     | -   | -     | -     |
| 20               | -     | 5.4   | 7.8   | 2.4   | ..  | -     | -   | -   | -     | -   | -     | -     |
| 21               | -     | -     | -     | -     | ..  | -     | -   | -   | -     | -   | -     | 10.4  |
| 22               | -     | -     | -     | -     | ..  | -     | -   | -   | -     | -   | -     | -     |
| 23               | -     | 10.4  | -     | -     | ..  | -     | -   | -   | -     | -   | 1.0   | 1.0   |
| 24               | -     | 18.0  | 15.2  | -     | ..  | -     | -   | -   | -     | -   | 3.6   | -     |
| 25               | -     | -     | 5.0   | -     | ..  | -     | -   | -   | -     | -   | -     | -     |
| 26               | -     | -     | -     | 2.6   | ..  | -     | -   | -   | -     | -   | -     | -     |
| 27               | -     | 12.4  | -     | 1.2   | ..  | -     | -   | -   | -     | -   | -     | -     |
| 28               | -     | -     | 10.0  | 4.0   | ..  | -     | -   | -   | -     | -   | -     | -     |
| 29               | -     | -     | 29.6  | -     | ..  | -     | -   | -   | ..... | -   | 8.0   | 1.2   |
| 30               | -     | -     | -     | 3.0   | ..  | -     | -   | -   | ..... | -   | -     | -     |
| 31               | ..... | -     | -     | ..... | ..  | ..... | -   | -   | ..... | -   | ..... | -     |
|                  |       |       |       |       |     |       |     |     |       |     |       |       |
| Missing          | 0     | 0     | 0     | 0     | 31  | 0     | 0   | 0   | 0     | 0   | 0     | 0     |
| Total            | 14.0  | 306.6 | 188.2 | 112.6 | 0.0 | 43.8  | 0.0 | 0.0 | 0.0   | 2.0 | 81.0  | 77.4  |
| Rainy Days       | 2     | 13    | 14    | 14    | 0   | 4     | 0   | 0   | 0     | 1   | 10    | 9     |
| Maximum          | 9.0   | 61.0  | 42.2  | 40.0  | 0.0 | 21.6  | 0.0 | 0.0 | 0.0   | 2.0 | 46.4  | 26.4  |
| Annual Rainfall  |       |       |       |       |     |       |     |     |       |     |       | 825.6 |

## Daily Rainfall Data

Station Code :005B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Mahanadi

Station Name :SURAJGARH  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |       |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|-------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May   |
| 1                | -     | -     | 0.8   | 5.8   | 8.6  | -     | -   | -   | -     | -   | -     | 5.8   |
| 2                | -     | -     | -     | -     | 2.4  | -     | -   | -   | -     | -   | -     | 0.8   |
| 3                | -     | 84.0  | -     | -     | 2.6  | -     | -   | -   | -     | -   | -     | 0.4   |
| 4                | -     | 13.0  | 17.0  | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 5                | -     | 0.2   | 28.8  | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 6                | -     | 18.2  | 12.6  | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 7                | -     | 3.2   | 7.6   | -     | 13.8 | -     | -   | -   | -     | -   | -     | -     |
| 8                | -     | -     | 12.6  | -     | 4.8  | -     | -   | -   | -     | -   | -     | -     |
| 9                | -     | 52.2  | 4.4   | -     | 0.6  | -     | -   | -   | -     | -   | -     | -     |
| 10               | -     | 27.2  | -     | 2.0   | -    | -     | -   | -   | -     | -   | 4.4   | -     |
| 11               | 4.0   | 0.2   | 8.6   | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 12               | -     | 2.6   | -     | 0.8   | -    | -     | -   | -   | 1.8   | -   | -     | -     |
| 13               | -     | 0.4   | 1.0   | 32.4  | -    | -     | -   | -   | -     | -   | -     | -     |
| 14               | -     | 2.6   | 14.6  | -     | -    | -     | -   | -   | 2.2   | -   | -     | 7.2   |
| 15               | -     | -     | 14.2  | -     | 5.4  | 3.0   | -   | -   | -     | -   | -     | 14.0  |
| 16               | 37.6  | 31.6  | -     | -     | -    | -     | -   | -   | -     | 2.4 | -     | -     |
| 17               | -     | 16.4  | 23.8  | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 18               | -     | 14.2  | 3.6   | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 19               | 20.0  | 0.6   | 4.0   | 9.2   | -    | -     | -   | -   | -     | -   | -     | 6.8   |
| 20               | 2.8   | 2.6   | 3.0   | 82.8  | 2.0  | -     | -   | -   | -     | -   | -     | -     |
| 21               | 16.6  | 12.4  | -     | 3.8   | -    | -     | -   | -   | -     | -   | -     | 7.2   |
| 22               | 8.6   | -     | -     | 0.2   | -    | -     | -   | -   | -     | -   | -     | -     |
| 23               | 0.6   | 18.2  | 1.4   | 0.4   | -    | -     | -   | -   | -     | -   | -     | -     |
| 24               | 2.8   | 19.6  | 18.4  | -     | 4.2  | -     | -   | -   | -     | -   | -     | -     |
| 25               | 1.6   | -     | 13.4  | -     | -    | -     | -   | -   | -     | -   | -     | 6.2   |
| 26               | 16.2  | 3.6   | 0.2   | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 27               | 3.4   | 5.4   | 6.8   | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 28               | 23.0  | -     | 9.0   | -     | -    | -     | -   | -   | -     | -   | -     | -     |
| 29               | 9.8   | 5.8   | 1.4   | 0.2   | -    | -     | -   | -   | ..... | -   | 1.4   | 9.2   |
| 30               | 1.6   | -     | -     | 0.4   | -    | -     | -   | -   | ..... | -   | 1.8   | -     |
| 31               | ..... | -     | 8.6   | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 9.6   |
|                  |       |       |       |       |      |       |     |     |       |     |       |       |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0     |
| Total            | 148.6 | 334.2 | 215.8 | 138.0 | 44.4 | 3.0   | 0.0 | 0.0 | 4.0   | 2.4 | 7.6   | 67.2  |
| Rainy Days       | 14    | 22    | 23    | 11    | 9    | 1     | 0   | 0   | 2     | 1   | 3     | 10    |
| Maximum          | 37.6  | 84.0  | 28.8  | 82.8  | 13.8 | 3.0   | 0.0 | 0.0 | 2.2   | 2.4 | 4.4   | 14.0  |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 965.2 |

## Daily Rainfall Data

Station Code :003B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :lb

Station Name :THETTATANGER  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |       |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | -     | 72.6  | 17.2  | 1.2   | 13.0  | -     | -   | -   | -     | -   | -     | 0.8    |
| 2                | -     | 20.0  | -     | -     | 56.0  | -     | -   | -   | -     | -   | -     | -      |
| 3                | -     | 70.8  | 2.0   | -     | -     | -     | -   | -   | -     | -   | -     | 3.4    |
| 4                | -     | 18.4  | 2.4   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | -     | 38.8  | -     | 3.4   | -     | -   | -   | -     | -   | -     | -      |
| 6                | -     | -     | 26.4  | 2.2   | 3.8   | -     | -   | -   | -     | -   | -     | -      |
| 7                | -     | -     | 3.8   | -     | 8.8   | -     | -   | -   | -     | -   | -     | 6.4    |
| 8                | 17.0  | 19.8  | 74.6  | 1.2   | 6.4   | -     | -   | -   | -     | -   | -     | -      |
| 9                | -     | 16.2  | 2.8   | 2.6   | 7.2   | -     | -   | -   | -     | -   | 18.0  | -      |
| 10               | -     | 13.4  | 4.0   | 6.2   | 0.4   | -     | -   | -   | -     | -   | -     | -      |
| 11               | -     | 1.4   | -     | 30.0  | -     | -     | -   | -   | -     | -   | -     | -      |
| 12               | 11.4  | 11.0  | 6.2   | 18.2  | -     | -     | -   | -   | -     | -   | -     | -      |
| 13               | -     | 2.0   | 0.4   | 0.8   | -     | -     | -   | -   | -     | -   | -     | -      |
| 14               | 3.4   | 7.2   | 4.8   | -     | -     | -     | -   | -   | 22.4  | -   | 21.0  | -      |
| 15               | -     | 4.2   | 1.0   | 0.4   | -     | -     | -   | -   | -     | -   | -     | -      |
| 16               | 0.4   | -     | 14.0  | 0.2   | -     | -     | -   | -   | -     | -   | -     | -      |
| 17               | -     | 52.8  | 63.2  | -     | -     | 0.6   | -   | -   | -     | -   | 0.8   | -      |
| 18               | -     | 3.2   | 3.4   | 3.4   | -     | -     | -   | -   | -     | -   | -     | -      |
| 19               | -     | -     | -     | 54.6  | -     | -     | -   | -   | -     | -   | -     | -      |
| 20               | 9.0   | 41.4  | 3.4   | 40.2  | 0.2   | -     | -   | -   | -     | -   | -     | -      |
| 21               | 11.4  | 12.2  | -     | 26.2  | 2.2   | -     | -   | -   | -     | -   | -     | 31.0   |
| 22               | 3.0   | 17.2  | 6.8   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 23               | 15.0  | 73.4  | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 24               | 5.0   | 55.6  | 3.2   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 25               | 13.6  | 3.6   | -     | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 26               | 3.0   | 97.4  | -     | -     | -     | -     | -   | -   | -     | -   | -     | 9.2    |
| 27               | 14.2  | 78.4  | 8.2   | 52.2  | -     | -     | -   | -   | -     | -   | -     | -      |
| 28               | 33.6  | 0.8   | -     | 6.2   | -     | -     | -   | -   | -     | -   | -     | -      |
| 29               | 3.8   | -     | -     | 10.2  | -     | -     | -   | -   | ..... | -   | 2.2   | -      |
| 30               | 72.6  | -     | -     | 6.4   | -     | -     | -   | -   | ..... | -   | 0.8   | -      |
| 31               | ..... | -     | -     | ..... | -     | ..... | -   | -   | ..... | -   | ..... | 15.2   |
|                  |       |       |       |       |       |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 216.4 | 693.0 | 286.6 | 262.4 | 101.4 | 0.6   | 0.0 | 0.0 | 22.4  | 0.0 | 42.8  | 66.0   |
| Rainy Days       | 15    | 23    | 20    | 18    | 10    | 1     | 0   | 0   | 1     | 0   | 5     | 6      |
| Maximum          | 72.6  | 97.4  | 74.6  | 54.6  | 56.0  | 0.6   | 0.0 | 0.0 | 22.4  | 0.0 | 21.0  | 31.0   |
| Annual Rainfall  |       |       |       |       |       |       |     |     |       |     |       | 1691.6 |

## Daily Rainfall Data

Station Code :004A

Parameter Code :MPS( Rainfall - SRG in mm)

Local River/Basin :Hasdeo

Station Name :Baikunthapur

Sub-Division :MMSD-I,CWC,Raipur

[ - 0.0 .. N.A.]

| Year : 2017-2018 |       |       |       |       |     |       |     |     |       |     |       |       |
|------------------|-------|-------|-------|-------|-----|-------|-----|-----|-------|-----|-------|-------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct | Nov   | Dec | Jan | Feb   | Mar | Apr   | May   |
| 1                | -     | 3.0   | -     | -     | -   | -     | -   | -   | -     | -   | -     | 4.0   |
| 2                | -     | 4.0   | 4.0   | 4.0   | -   | -     | -   | -   | -     | -   | 19.0  | -     |
| 3                | -     | 8.0   | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 4                | -     | 25.0  | 2.0   | 2.0   | -   | -     | -   | -   | -     | -   | -     | -     |
| 5                | -     | 5.0   | 28.0  | 28.0  | -   | -     | -   | -   | -     | -   | -     | -     |
| 6                | -     | -     | 2.0   | 2.0   | -   | -     | -   | -   | -     | -   | -     | -     |
| 7                | -     | -     | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 8                | -     | -     | -     | -     | 6.0 | -     | -   | -   | -     | -   | 3.4   | -     |
| 9                | -     | 2.0   | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 10               | -     | 6.0   | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 11               | -     | 4.0   | 25.0  | 25.0  | -   | -     | -   | -   | -     | -   | -     | -     |
| 12               | -     | 6.0   | 1.0   | 1.0   | -   | -     | -   | -   | 2.0   | -   | 3.6   | -     |
| 13               | 1.0   | 25.0  | -     | -     | -   | -     | -   | -   | -     | -   | 1.8   | -     |
| 14               | 1.6   | -     | -     | -     | -   | -     | -   | -   | 14.0  | -   | -     | 5.4   |
| 15               | -     | -     | -     | -     | -   | -     | -   | -   | -     | -   | -     | 8.0   |
| 16               | 6.0   | 2.0   | 1.0   | 1.0   | -   | -     | -   | -   | -     | -   | -     | -     |
| 17               | 2.0   | 4.0   | 8.0   | 8.0   | -   | -     | -   | -   | -     | -   | -     | -     |
| 18               | -     | 4.0   | 4.0   | 4.0   | -   | -     | -   | -   | -     | -   | -     | -     |
| 19               | -     | 15.0  | 6.0   | 6.0   | -   | -     | -   | -   | -     | -   | -     | 2.0   |
| 20               | 2.0   | 4.2   | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 21               | 30.0  | 8.2   | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 22               | 15.0  | 17.0  | -     | -     | -   | -     | -   | -   | -     | 3.0 | -     | -     |
| 23               | -     | 49.0  | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 24               | 2.0   | 19.0  | -     | -     | -   | -     | -   | -   | -     | -   | -     | -     |
| 25               | -     | 6.0   | 6.0   | 6.0   | -   | -     | -   | -   | -     | -   | -     | 1.0   |
| 26               | 6.0   | 47.0  | 3.0   | 3.0   | -   | -     | -   | -   | 3.0   | -   | -     | 2.0   |
| 27               | -     | 31.0  | 24.0  | 24.0  | -   | -     | -   | -   | -     | -   | -     | -     |
| 28               | 14.0  | 4.0   | 7.0   | 7.0   | -   | -     | -   | -   | -     | -   | -     | -     |
| 29               | 2.0   | -     | -     | -     | -   | -     | -   | -   | ..... | -   | -     | -     |
| 30               | -     | 6.0   | -     | -     | -   | -     | -   | -   | ..... | -   | -     | -     |
| 31               | ..... | -     | -     | ..... | -   | ..... | -   | -   | ..... | -   | ..... | -     |
| Missing          | 0     | 0     | 0     | 0     | 0   | 0     | 0   | 0   | 0     | 0   | 0     | 0     |
| Total            | 81.6  | 304.4 | 121.0 | 121.0 | 6.0 | 0.0   | 0.0 | 0.0 | 19.0  | 3.0 | 27.8  | 22.4  |
| Rainy Days       | 11    | 24    | 14    | 14    | 1   | 0     | 0   | 0   | 3     | 1   | 4     | 6     |
| Maximum          | 30.0  | 49.0  | 28.0  | 28.0  | 6.0 | 0.0   | 0.0 | 0.0 | 14.0  | 3.0 | 19.0  | 8.0   |
| Annual Rainfall  |       |       |       |       |     |       |     |     |       |     |       | 706.2 |

## Daily Rainfall Data

Station Code :0011B

Parameter Code :MPS( Rainfall - SRG in mm)

Local River/Basin :Basundhara

Station Name :GOPALPUR

Sub-Division :MMSD-II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | 0.4   | -     | 4.0   | -     | 18.0 | -     | -   | -   | -     | -   | ..    | 0.2    |
| 2                | -     | -     | 0.6   | 24.2  | 3.2  | -     | -   | -   | -     | -   | ..    | -      |
| 3                | -     | 58.0  | 22.2  | -     | 0.2  | -     | -   | -   | -     | -   | ..    | 0.6    |
| 4                | -     | 31.4  | 0.8   | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 5                | 4.0   | 1.8   | 19.8  | 33.2  | -    | -     | -   | -   | -     | -   | ..    | 0.8    |
| 6                | 2.8   | -     | 14.2  | -     | 6.4  | -     | -   | -   | -     | -   | ..    | -      |
| 7                | 0.4   | 2.6   | 4.2   | 1.8   | -    | -     | -   | -   | -     | -   | ..    | -      |
| 8                | 2.8   | 5.0   | 15.4  | 0.2   | 22.6 | -     | -   | -   | -     | -   | ..    | -      |
| 9                | -     | 8.0   | 49.2  | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 10               | 0.6   | 23.6  | 2.8   | 6.4   | -    | -     | -   | -   | -     | -   | ..    | -      |
| 11               | 15.0  | 0.2   | -     | 9.4   | -    | -     | -   | -   | -     | -   | ..    | -      |
| 12               | 2.4   | -     | 4.0   | 0.6   | -    | -     | -   | -   | 0.4   | -   | ..    | -      |
| 13               | 14.0  | -     | -     | 50.0  | -    | -     | -   | -   | -     | -   | ..    | 0.4    |
| 14               | -     | 9.0   | 15.4  | -     | -    | -     | -   | -   | 1.4   | -   | ..    | 7.4    |
| 15               | -     | 0.6   | 17.6  | -     | -    | -     | -   | -   | -     | -   | ..    | 3.2    |
| 16               | -     | 1.4   | 0.8   | 3.0   | -    | 0.4   | -   | -   | -     | 1.4 | ..    | -      |
| 17               | -     | 34.0  | 17.6  | 0.4   | -    | -     | -   | -   | -     | -   | ..    | -      |
| 18               | -     | 2.2   | 0.6   | 1.6   | -    | -     | -   | -   | -     | -   | ..    | -      |
| 19               | 3.4   | 0.8   | 4.8   | 69.0  | 0.8  | -     | -   | -   | -     | -   | ..    | -      |
| 20               | -     | -     | 0.6   | 13.2  | 12.8 | -     | -   | -   | -     | -   | ..    | -      |
| 21               | 23.8  | -     | -     | 7.8   | -    | -     | -   | -   | -     | -   | ..    | 1.0    |
| 22               | 23.0  | -     | 4.0   | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 23               | 1.0   | 26.6  | 9.6   | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 24               | 32.6  | 42.2  | 8.0   | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 25               | 1.0   | 1.8   | 6.6   | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 26               | 36.0  | 15.2  | -     | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 27               | 62.8  | 12.0  | -     | -     | 7.8  | -     | -   | -   | -     | -   | ..    | -      |
| 28               | 74.0  | 0.6   | 10.2  | -     | -    | -     | -   | -   | -     | -   | ..    | -      |
| 29               | 14.2  | 0.2   | 2.6   | 53.4  | -    | -     | -   | -   | ..... | -   | ..    | -      |
| 30               | 27.8  | 5.8   | 3.4   | -     | -    | -     | -   | -   | ..... | -   | ..    | -      |
| 31               | ..... | 0.2   | 10.4  | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 26.6   |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 30    | 0      |
| Total            | 342.0 | 283.2 | 249.4 | 274.2 | 71.8 | 0.4   | 0.0 | 0.0 | 1.8   | 1.4 | 0.0   | 40.2   |
| Rainy Days       | 20    | 23    | 26    | 15    | 8    | 1     | 0   | 0   | 2     | 1   | 0     | 8      |
| Maximum          | 74.0  | 58.0  | 49.2  | 69.0  | 22.6 | 0.4   | 0.0 | 0.0 | 1.4   | 1.4 | 0.0   | 26.6   |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1264.4 |

## Daily Rainfall Data

Station Code :003A

Parameter Code :MPS( Rainfall - SRG in mm)

Local River/Basin :Arpa

Station Name :Pendraroad

Sub-Division :MMSD-I,CWC,Raipur

[ - 0.0 .. N.A.]

| Year : 2017-2018 |       |       |       |       |      |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct  | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | 2.4   | 28.0  | -     | 1.6   | -    | -     | -   | -   | -     | -   | -     | -      |
| 2                | 15.2  | 1.8   | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 3                | -     | 10.6  | 8.6   | 1.6   | -    | -     | -   | -   | -     | -   | -     | 1.0    |
| 4                | -     | 4.6   | 12.0  | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | 7.2   | -     | 1.4   | 4.4  | -     | -   | -   | -     | -   | -     | -      |
| 6                | 0.8   | -     | 7.0   | -     | 1.8  | -     | -   | -   | -     | -   | -     | -      |
| 7                | -     | -     | -     | -     | 36.0 | -     | -   | -   | -     | -   | -     | -      |
| 8                | -     | -     | -     | 0.8   | -    | -     | -   | -   | -     | -   | -     | -      |
| 9                | -     | 17.8  | 4.0   | -     | -    | -     | -   | -   | -     | -   | 2.4   | -      |
| 10               | 3.4   | 6.8   | 71.0  | 1.0   | 6.6  | -     | -   | -   | -     | -   | -     | -      |
| 11               | -     | 18.2  | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 12               | -     | 1.2   | -     | 8.0   | -    | -     | -   | -   | 0.2   | -   | 2.0   | -      |
| 13               | -     | 1.2   | -     | 0.6   | -    | -     | -   | -   | -     | -   | 5.2   | -      |
| 14               | 1.2   | 1.8   | -     | 1.2   | -    | -     | -   | -   | 12.0  | -   | -     | 2.0    |
| 15               | 0.6   | 3.2   | -     | 1.0   | -    | -     | -   | -   | -     | -   | 6.0   | 14.6   |
| 16               | 7.8   | 1.0   | -     | -     | -    | -     | -   | -   | -     | -   | 0.6   | 8.0    |
| 17               | 0.8   | 9.4   | 2.6   | 4.8   | -    | -     | -   | -   | -     | -   | -     | -      |
| 18               | 3.4   | 35.6  | 3.6   | 74.6  | -    | -     | -   | -   | -     | -   | -     | -      |
| 19               | 6.2   | 3.0   | 25.2  | 12.4  | -    | -     | -   | -   | -     | -   | -     | -      |
| 20               | 4.4   | 43.0  | 2.2   | 47.0  | -    | -     | -   | -   | -     | -   | -     | -      |
| 21               | 46.8  | -     | 0.8   | 13.6  | -    | -     | -   | -   | -     | -   | -     | -      |
| 22               | 0.6   | 7.0   | -     | 23.0  | -    | -     | -   | -   | -     | 0.4 | -     | -      |
| 23               | 24.6  | 3.2   | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 24               | -     | 4.2   | 11.0  | 0.2   | -    | -     | -   | -   | -     | -   | -     | -      |
| 25               | -     | 1.4   | 27.2  | -     | -    | -     | -   | -   | -     | -   | -     | 1.6    |
| 26               | 56.2  | 1.0   | 0.2   | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 27               | 2.4   | 6.4   | -     | -     | -    | -     | -   | -   | -     | -   | -     | -      |
| 28               | 22.0  | 0.8   | 2.4   | 2.4   | -    | -     | -   | -   | -     | -   | -     | -      |
| 29               | 0.8   | 0.8   | 35.6  | 2.0   | -    | -     | -   | -   | ..... | -   | -     | -      |
| 30               | 23.6  | 1.4   | 51.0  | -     | -    | -     | -   | -   | ..... | -   | -     | -      |
| 31               | ..... | -     | -     | ..... | -    | ..... | -   | -   | ..... | -   | ..... | 3.6    |
| Missing          | 0     | 0     | 0     | 0     | 0    | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 223.2 | 220.6 | 264.4 | 197.2 | 48.8 | 0.0   | 0.0 | 0.0 | 12.2  | 0.4 | 16.2  | 30.8   |
| Rainy Days       | 19    | 26    | 16    | 18    | 4    | 0     | 0   | 0   | 2     | 1   | 5     | 6      |
| Maximum          | 56.2  | 43.0  | 71.0  | 74.6  | 36.0 | 0.0   | 0.0 | 0.0 | 12.0  | 0.4 | 6.0   | 14.6   |
| Annual Rainfall  |       |       |       |       |      |       |     |     |       |     |       | 1013.8 |

## Daily Rainfall Data

Station Code :006B  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Tel

Station Name :PHULBANI  
 Sub-Division :MMSD II,CWC,Burla

| Year : 2017-2018 |       |       |       |       |       |       |     |     |       |     |       |        |
|------------------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|--------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec | Jan | Feb   | Mar | Apr   | May    |
| 1                | 1.4   | 2.8   | 16.0  | 21.4  | 22.0  | -     | -   | -   | -     | -   | -     | -      |
| 2                | 5.8   | -     | 6.6   | 28.4  | 6.4   | -     | -   | -   | -     | -   | 4.4   | -      |
| 3                | 1.0   | 3.4   | 0.6   | 3.4   | 2.2   | -     | -   | -   | -     | -   | -     | -      |
| 4                | -     | 1.2   | 1.6   | -     | 9.2   | -     | -   | -   | -     | -   | -     | -      |
| 5                | -     | -     | -     | 1.2   | 3.8   | -     | -   | -   | -     | -   | -     | -      |
| 6                | 7.2   | -     | 0.4   | 2.8   | -     | -     | -   | -   | -     | -   | -     | -      |
| 7                | -     | 3.4   | 51.6  | 18.0  | 11.4  | -     | -   | -   | -     | -   | -     | -      |
| 8                | -     | 8.0   | 14.2  | 24.0  | 52.2  | -     | -   | -   | -     | -   | 6.8   | -      |
| 9                | 18.4  | 2.0   | 0.6   | 2.4   | 12.0  | -     | -   | -   | -     | -   | -     | -      |
| 10               | 1.0   | 20.4  | 1.8   | 9.6   | 10.6  | -     | -   | -   | -     | -   | 46.0  | -      |
| 11               | 11.6  | -     | 1.0   | 1.0   | -     | -     | -   | -   | -     | -   | -     | -      |
| 12               | -     | 7.4   | 1.0   | 2.0   | 31.8  | -     | -   | -   | -     | -   | -     | -      |
| 13               | -     | 4.0   | -     | 1.6   | 5.0   | -     | -   | -   | -     | -   | -     | -      |
| 14               | -     | 39.8  | 4.0   | 5.8   | -     | -     | -   | -   | -     | -   | -     | -      |
| 15               | -     | 5.4   | 0.4   | -     | -     | -     | -   | -   | -     | -   | -     | 0.4    |
| 16               | 66.4  | 2.4   | -     | 4.0   | -     | 20.8  | -   | -   | -     | -   | -     | -      |
| 17               | -     | 9.6   | 2.4   | 10.6  | -     | 2.8   | -   | -   | -     | -   | -     | -      |
| 18               | -     | 37.0  | 11.6  | 0.6   | -     | 4.6   | -   | -   | -     | -   | 3.4   | -      |
| 19               | 1.4   | 17.0  | 3.8   | 74.0  | -     | 1.4   | -   | -   | -     | -   | -     | 10.8   |
| 20               | -     | 1.4   | 2.8   | 4.0   | 73.4  | 5.6   | -   | -   | -     | -   | -     | -      |
| 21               | 20.4  | -     | 4.8   | 55.6  | 24.0  | -     | -   | -   | -     | -   | 1.4   | 7.0    |
| 22               | 47.2  | -     | -     | -     | -     | -     | -   | -   | -     | -   | -     | 1.2    |
| 23               | -     | 11.6  | 5.6   | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 24               | -     | 6.6   | 30.2  | -     | -     | -     | -   | -   | -     | -   | -     | -      |
| 25               | 32.8  | -     | 3.2   | 0.4   | -     | -     | -   | -   | -     | -   | 28.6  | -      |
| 26               | 11.8  | 2.0   | -     | 1.2   | -     | -     | -   | -   | -     | -   | -     | -      |
| 27               | 20.6  | 3.8   | 0.6   | 3.0   | -     | -     | -   | -   | -     | -   | 0.4   | -      |
| 28               | 4.0   | -     | 9.2   | 7.0   | -     | -     | -   | -   | -     | -   | -     | -      |
| 29               | 11.0  | -     | 0.2   | 1.4   | -     | -     | -   | -   | ..... | -   | -     | -      |
| 30               | -     | -     | -     | ..    | -     | -     | -   | -   | ..... | -   | 37.4  | -      |
| 31               | ..... | -     | -     | ..... | -     | ..... | -   | -   | ..... | -   | ..... | 6.4    |
|                  |       |       |       |       |       |       |     |     |       |     |       |        |
| Missing          | 0     | 0     | 0     | 1     | 0     | 0     | 0   | 0   | 0     | 0   | 0     | 0      |
| Total            | 262.0 | 189.2 | 174.2 | 283.4 | 264.0 | 35.2  | 0.0 | 0.0 | 0.0   | 0.0 | 128.4 | 25.8   |
| Rainy Days       | 16    | 20    | 24    | 24    | 13    | 5     | 0   | 0   | 0     | 0   | 8     | 5      |
| Maximum          | 66.4  | 39.8  | 51.6  | 74.0  | 73.4  | 20.8  | 0.0 | 0.0 | 0.0   | 0.0 | 46.0  | 10.8   |
| Annual Rainfall  |       |       |       |       |       |       |     |     |       |     |       | 1362.2 |

# Daily Rainfall Data

Station Code : Rpr

Parameter Code : MPS (Rainfall :SRG ijn mm)

Local River Basin :

Station Code : Raipur

Sub-Division : UMSD,CWC,Raipur

| Year 2017-2018  |       |       |       |       |      |      |      |      |      |      |      |      |
|-----------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
|                 | June  | July  | Aug   | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May  |
| 1               | 0     | 4.0   | 4.4   | 13.0  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    |
| 2               | 7.8   | 31.4  | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 1.6  | 0    |
| 3               | 0.00  | 0     | 10.4  | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 4               | 1.2   | 4     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 5               | 0     | 0     | 0     | 0     | 0.4  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 6               | 0     | 0     | 5     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 9.6  | 0    |
| 7               | 0.4   | 0     | 13.8  | 6.2   | 0    | 0    | 0    | 0    | 0    | 0    | 2.4  | 0    |
| 8               | 0     | 0     | 0.4   | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 9               | 0     | 0.2   | 0     | 0     | 26.6 | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 10              | 1     | 7     | 0     | 1.4   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 11              | 1.8   | 5.6   | 0     | 0     | 17.2 | 0    | 0    | 0    | 4.6  | 0    | 0    | 1.8  |
| 12              | 17.2  | 1.8   | 0     | 16.4  | 0.8  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 13              | 0     | 0     | 1.8   | 4.2   | 0    | 0    | 0    | 0    | 5.2  | 0    | 0    | 1    |
| 14              | 0     | 0     | 7.4   | 0.6   | 1.8  | 0    | 0    | 0    | 12   | 0    | 0    | 0.8  |
| 15              | 0     | 1.6   | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 6.4  | 0    |
| 16              | 14.6  | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 1.2  | 5.2  | 0    |
| 17              | 0     | 4     | 0.6   | 5.8   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 18.2 |
| 18              | 0     | 17.8  | 15.4  | 2.4   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 19              | 0     | 8     | 5.6   | 34.6  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 20              | 0     | 0     | 13    | 21.6  | 5.8  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 21              | 2.8   | 4.4   | 1.4   | 12.8  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 22              | 10    | 11.6  | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 23              | 2.2   | 0.8   | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 24              | 1.2   | 5.8   | 0.4   | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 25              | 35.8  | 0     | 51.8  | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 26              | 1.2   | 2.2   | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 27              | 2.6   | 1.4   | 1.6   | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 28              | 22.4  | 0.6   | 8.4   | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 29              | 1.4   | 3.6   | 9.2   | 0     | 0    | 0    | 0    | 0    |      | 0    | 0    | 0    |
| 30              | 6.6   | 0     | 5.8   | 0     | 0    | 0    | 0    | 0    |      | 0    | 0    | 0    |
| 31              |       | 0     | 0     | 0     | 0    | 0    | 0    | 0    |      | 0    |      | 0    |
| Total Rainfall  | 130.2 | 115.8 | 156.4 | 119   | 52.6 | 0    | 0    | 0    | 21.8 | 1.2  | 25.2 | 22.8 |
| Annual Rainfall |       |       |       |       |      |      |      |      |      |      |      | 645  |

## Daily Rainfall Data

Station Code :NARAJ  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Mahanadi

Station Name :NARAJ  
 Sub-Division :LMSD,CWC,Bhubaneswar

[ - 0.0 .. N.A.]

Year : 2017-2018

| Day             | Jun   | Jul   | Aug  | Sep   | Oct   | Nov   | Dec  | Jan | Feb   | Mar | Apr   | May    |
|-----------------|-------|-------|------|-------|-------|-------|------|-----|-------|-----|-------|--------|
| 1               | 1.4   | 8.2   | -    | -     | 20.6  | -     | -    | -   | -     | -   | -     | 30.8   |
| 2               | -     | -     | -    | 19.2  | -     | -     | -    | -   | -     | -   | 11.8  | -      |
| 3               | -     | -     | -    | 0.4   | -     | -     | -    | -   | -     | -   | -     | 1.8    |
| 4               | -     | 6.8   | -    | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 5               | -     | -     | 3.2  | -     | 11.8  | -     | -    | -   | -     | -   | 7.8   | -      |
| 6               | -     | -     | 17.0 | 1.2   | 1.0   | -     | -    | -   | -     | -   | -     | -      |
| 7               | -     | 5.4   | -    | 6.6   | 9.8   | -     | -    | -   | -     | -   | 24.8  | -      |
| 8               | 2.4   | 12.4  | -    | -     | 0.4   | -     | -    | -   | -     | -   | 9.4   | -      |
| 9               | 0.8   | 2.4   | -    | -     | 2.0   | -     | 12.8 | -   | -     | -   | -     | -      |
| 10              | 5.8   | 6.6   | -    | -     | 7.8   | -     | 0.2  | -   | -     | -   | 0.8   | -      |
| 11              | -     | 29.2  | -    | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 12              | 2.6   | 42.2  | -    | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 13              | -     | 19.4  | -    | 33.6  | -     | -     | -    | -   | -     | -   | 1.8   | 12.4   |
| 14              | -     | 4.8   | -    | 71.2  | -     | -     | -    | -   | -     | -   | -     | -      |
| 15              | 3.4   | 26.0  | 41.4 | -     | -     | 10.6  | -    | -   | -     | -   | -     | 29.8   |
| 16              | -     | 26.8  | 7.2  | -     | -     | 22.2  | -    | -   | -     | -   | -     | -      |
| 17              | -     | 93.2  | -    | -     | -     | 4.4   | -    | -   | -     | 0.4 | -     | 19.6   |
| 18              | -     | 77.4  | -    | -     | 1.2   | 15.6  | -    | -   | -     | -   | 10.8  | -      |
| 19              | -     | 19.6  | -    | 49.4  | 21.0  | 0.6   | -    | -   | -     | -   | -     | 0.4    |
| 20              | -     | 5.6   | -    | 9.0   | 69.2  | -     | -    | -   | -     | -   | -     | -      |
| 21              | -     | 16.8  | -    | -     | 3.8   | -     | -    | -   | -     | -   | -     | 13.6   |
| 22              | -     | 1.2   | -    | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 23              | -     | 27.4  | -    | 0.6   | -     | -     | -    | -   | -     | -   | -     | 0.6    |
| 24              | 0.4   | 31.4  | 1.0  | -     | -     | -     | -    | -   | -     | -   | 2.2   | 5.2    |
| 25              | 1.8   | 1.0   | 2.2  | 9.6   | -     | -     | -    | -   | -     | -   | -     | -      |
| 26              | -     | -     | 0.4  | 7.8   | -     | -     | -    | -   | -     | -   | -     | -      |
| 27              | -     | 2.6   | -    | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 28              | -     | -     | -    | -     | -     | -     | -    | -   | -     | -   | -     | -      |
| 29              | 6.8   | -     | 17.8 | 16.8  | -     | -     | -    | -   | ..... | -   | 2.2   | -      |
| 30              | 1.4   | 22.6  | -    | -     | -     | -     | -    | -   | ..... | -   | 1.0   | 0.4    |
| 31              | ..... | 3.8   | -    | ..... | -     | ..... | -    | -   | ..... | -   | ..... | -      |
|                 |       |       |      |       |       |       |      |     |       |     |       |        |
| Missing         | 0     | 0     | 0    | 0     | 0     | 0     | 0    | 0   | 0     | 0   | 0     | 0      |
| Total           | 26.8  | 492.8 | 90.2 | 225.4 | 148.6 | 53.4  | 13.0 | 0.0 | 0.0   | 0.4 | 72.6  | 114.6  |
| Rainy Days      | 10    | 24    | 8    | 12    | 11    | 5     | 2    | 0   | 0     | 1   | 10    | 10     |
| Maximum         | 6.8   | 93.2  | 41.4 | 71.2  | 69.2  | 22.2  | 12.8 | 0.0 | 0.0   | 0.4 | 24.8  | 30.8   |
| Annual Rainfall |       |       |      |       |       |       |      |     |       |     |       | 1237.8 |

## Daily Rainfall Data

Station Code :MARSHAGHAI  
 Parameter Code :MPS( Rainfall - SRG in mm)  
 Local River/Basin :Luna

Station Name :MARSHAGHAI  
 Sub-Division :LMSD,CWC,Bhubaneswar

| Year : 2017-2018 |       |       |       |       |       |       |      |     |       |     |       |       |
|------------------|-------|-------|-------|-------|-------|-------|------|-----|-------|-----|-------|-------|
| Day              | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec  | Jan | Feb   | Mar | Apr   | May   |
| 1                | -     | 1.0   | -     | 21.6  | 2.8   | -     | -    | -   | -     | -   | -     | 10.4  |
| 2                | 5.2   | 8.4   | 1.8   | -     | 2.0   | -     | -    | -   | -     | -   | 3.2   | -     |
| 3                | -     | -     | -     | -     | 6.8   | -     | -    | -   | -     | -   | -     | -     |
| 4                | -     | -     | 25.0  | -     | 2.8   | -     | -    | -   | -     | -   | -     | -     |
| 5                | -     | -     | 132.4 | -     | 13.8  | -     | -    | -   | -     | -   | 6.6   | -     |
| 6                | -     | -     | -     | -     | 45.6  | -     | -    | -   | -     | -   | 0.6   | -     |
| 7                | -     | -     | -     | -     | 45.4  | -     | -    | -   | -     | -   | 0.4   | -     |
| 8                | -     | -     | 6.4   | -     | 16.0  | -     | 3.6  | -   | -     | -   | -     | -     |
| 9                | -     | -     | 38.0  | -     | 1.4   | -     | 60.0 | -   | -     | -   | -     | -     |
| 10               | 25.8  | 10.2  | -     | -     | 32.4  | -     | 4.2  | -   | -     | -   | -     | -     |
| 11               | 7.4   | 5.2   | 18.2  | -     | -     | -     | -    | -   | -     | -   | -     | -     |
| 12               | 12.4  | 71.8  | -     | 64.2  | -     | -     | -    | -   | -     | -   | -     | -     |
| 13               | -     | 3.2   | -     | 72.2  | 12.4  | -     | -    | -   | -     | -   | -     | -     |
| 14               | -     | 3.8   | -     | -     | -     | -     | -    | -   | -     | -   | -     | 54.2  |
| 15               | 6.2   | 6.6   | -     | 1.2   | -     | 30.0  | -    | -   | -     | -   | -     | 4.6   |
| 16               | 3.6   | 9.0   | 5.4   | -     | -     | 53.8  | -    | -   | -     | -   | -     | -     |
| 17               | -     | 17.4  | 32.2  | -     | -     | 87.4  | -    | -   | -     | -   | -     | 18.0  |
| 18               | -     | 6.2   | 5.8   | 1.8   | -     | -     | -    | -   | -     | -   | -     | -     |
| 19               | -     | 4.4   | -     | 3.2   | 54.2  | -     | -    | -   | -     | -   | -     | 4.2   |
| 20               | -     | 0.6   | -     | 2.2   | 72.4  | -     | -    | -   | -     | -   | -     | -     |
| 21               | -     | -     | 14.4  | 10.6  | 7.2   | -     | -    | -   | -     | -   | -     | 2.4   |
| 22               | -     | 3.0   | -     | -     | -     | -     | -    | -   | -     | -   | -     | -     |
| 23               | 22.0  | 37.6  | 1.6   | -     | -     | -     | -    | -   | -     | -   | -     | 19.8  |
| 24               | 4.8   | 1.4   | 34.0  | -     | -     | -     | -    | -   | -     | -   | 9.4   | -     |
| 25               | 11.8  | 0.2   | 0.8   | -     | -     | -     | -    | -   | -     | -   | -     | -     |
| 26               | -     | 1.6   | 31.2  | 0.6   | -     | -     | -    | -   | -     | -   | -     | -     |
| 27               | 2.4   | 0.2   | 49.2  | 11.8  | -     | -     | -    | -   | -     | -   | -     | -     |
| 28               | 9.4   | 22.4  | 19.4  | 5.0   | -     | -     | -    | -   | -     | -   | 0.8   | -     |
| 29               | -     | 6.4   | 53.8  | 5.4   | -     | -     | -    | -   | ..... | -   | 0.2   | -     |
| 30               | 3.4   | 16.4  | 1.2   | 2.8   | -     | -     | -    | -   | ..... | -   | -     | -     |
| 31               | ..... | 34.0  | 2.2   | ..... | -     | ..... | -    | -   | ..... | -   | ..... | -     |
|                  |       |       |       |       |       |       |      |     |       |     |       |       |
| Missing          | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0   | 0     | 0   | 0     | 0     |
| Total            | 114.4 | 271.0 | 473.0 | 202.6 | 315.2 | 171.2 | 67.8 | 0.0 | 0.0   | 0.0 | 21.2  | 113.6 |
| Rainy Days       | 12    | 23    | 19    | 13    | 14    | 3     | 3    | 0   | 0     | 0   | 7     | 7     |
| Maximum          | 25.8  | 71.8  | 132.4 | 72.2  | 72.4  | 87.4  | 60.0 | 0.0 | 0.0   | 0.0 | 9.4   | 54.2  |
| Annual Rainfall  |       |       |       |       |       |       |      |     |       |     |       | 1750  |

