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GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION

GODAVARI BASIN
DAILY DISCHARGE DATA (Vol. I)
(JUNE 2016 – MAY 2017)

GODAVARI CIRCLE
HYDERABAD
December 2017

P R E F A C E

India's National Water Policy emphasises the importance of a well-developed information system as the prime requisite for water resources planning, development and management. Reliable and continuous records of water resources data are essential for the optimum development of water resources. Conducting hydrological observations in all-important river basins of India has, therefore, been one of the main activities of the Central Water Commission (CWC).

Hydrological observations of Godavari basin have started by CWC in the early 1960's and the discharge data in the form of Water Year Book has been published since then. This water yearbook contains discharge data for the year 2016-17 (June 2016 to May 2017) collected at 50 hydrological stations maintained by CWC in Godavari basin.

Apart from the daily discharge, the ten daily and monthly summaries of the discharges, Histogram-Hydrograph, Annual runoff bar chart from inception, graph showing the percentage of maximum, minimum and average monthly runoff from inception and current year monthly runoff, superimposed pre-monsoon and post-monsoon cross sections, water level hydrograph of the highest observed flood peaks during the year at these sites have also been included in the data sheets.

Basic details about the site, like the name of the tributary on which the site is located, the latitude and longitude of the site, the catchment area upto the site, the date of commencement of observations, annual maximum and minimum discharges observed from inception of site are shown in history sheet.

Three field divisions of CWC, viz., Upper Godavari Division and Lower Godavari Division with headquarters at Hyderabad under the control of Godavari Circle and Wainganga Division with headquarter at Nagpur under the control of Superintending Engineer (Co-ordination), Nagpur are responsible for the maintenance of the hydrological stations in Godavari basin. The efforts put forth by the officers and staff of these field offices in bringing out this Water Year Book is acknowledged.

Hyderabad
December - 2017

(O.R.K.REDDY)
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1. INTRODUCTION

1.1 Godavari River System

The river Godavari, the largest of the peninsular rivers, and third largest in India, drains about 10% of India's total geographical area. The catchment area of the river is 3,12,812 sq.km. and is spread in the states of Maharashtra (48.8%), Andhra Pradesh (3.7%),Telangana(20%), Madhya Pradesh (7.9%), Chhattisgarh (12.4%), Orissa (5.7%) and Karnataka (1.5%). The basin lies in the Deccan plateau and is situated between latitude 16^0 16' 00" North and 22^0 36' 00" North and longitude 73^0 26' 00" East and 83^0 07' 00" East.

The river Godavari rises at an elevation of 1,067 m in the Western Ghats near Thriambak Hills in the Nasik district of Maharashtra. After flowing for about 1,465 km., in a generally south-east direction, it falls into the Bay of Bengal.

About 64 km. from its source, the Godavari receives the waters from Dharna, on its right bank and a short distance down stream the Kadana joins it from the left. The combined waters of the Pravara and Mula which rise in the hills of Akola join the river from left about 217 km. from its source. About 338 km. from its source, the river receives the combined waters from the Purna and Dudhna rivers and after a further 138 km. at the border of Maharashtra and Telangana, the waters of the Manjira river joins it from the South. At this point, Godavari flows at an elevation of about 329 m.

The river Pranhita, conveying the combined waters of Penganga, the Wardha and Wainganga, which drain Nagpur and southern slopes of the Satpura ranges, falls into Godavari about 306 km below its confluence with the Manjira. The waters of the Indravathi join the river Godavari 48 Km down stream. The last major tributary is the Sabari from Orissa, which joins the Godavari, 100 km. up-stream of Rajahmundry.

The largest tributary of the Godavari is the Pranhita with about 34.87% coverage of drainage area. The Pravara, Manjira and Maner are right bank tributaries covering about 16.14%, the Purna, Pranhita, Indravathi and Sabari are important left bank tributaries, covering nearly 59.7% of the total catchment area of the basin. The Godavari in the upper, middle, and lower reaches make up for the balance 24.16%. The particulars of the catchment area, length, elevation of the source points of the river and its tributaries in the

order of their occurrence along the length of the main rivers were indicated in the Table-1.

Table - 1 Important Tributaries of Godavari

Sl.No	Name of the River	Elevation of Source	Length of Tributary (km)	Catchment area (sq.km.)	Average annual rainfall (mm)
1	Upper Godavari (source to Manjira confluence)	1,067	675	33502	770
2	Pravara	1,050	208	6537	606
3	Purna	838	373	15579	797
4	Manjira	823	724	30844	846
5	Middle Godavari (between confluence points Manjira and Pranhita)	323	328	17205	955
6	Maner	533	225	13106	932
7	Penganga	686	676	23898	960
8	Wardha	777	483	24087	1055
9	Pranhita	640	721	61093	1363
10	Lower Godavari (Pranhita confluence to sea)	107	462	24869	1208
11	Indravati	914	535	41665	1588
12	Sabari	1,372	418	20427	1433
	Total			312812	12513

1.2 Rainfall pattern in the basin.

The Godavari basin receives its maximum rainfall during the Southwest monsoon. The monsoon currents strike the West Coast of the peninsula from West and South-West; meet the Western Ghats or Sahyadri Range, which present almost an uninterrupted barrier ranging from 600 m. to 2100 m. in height. Before surmounting this barrier, the currents deposit most of their moisture on its windward side, and then sweep across the interior of the peninsula on the Easterly course. Rainfall is governed largely by the orography of the area, which leads to variation in the amount of precipitation. In crossing the Ghats, the monsoon wind loses a large part of their moisture. The monsoon currents follow the Eastward slope of the country from the crest of the Ghats, which form the watershed. Conditions in the interior area, therefore, somewhat unfavorable for heavy precipitation except in association with the depression from the Bay of Bengal. The north-east part of the Godavari basin also receives some rain in association with monsoon depressions, which move west-north-west across the Orissa coast.

The Godavari receives the drainage from a length of about 129 km. of the high rainfall zone in the Western Ghats. The annual rainfall varies from 1,000 to 3,000 mm in this reach. East of the Western Ghats, the rainfall decreases rapidly to less than 600 mm. There is a belt some distance East of the Western Ghats and in width varying from about 80 km. in the South to about 97 km. in the North with less than 600 mm, of normal annual rainfall. The belt, which is about 10,360 sq.km. in area, includes portions of Aurangabad and Ahmednagar districts of Maharashtra. After this area the rainfall again gradually increases to about 900 mm towards the East coast.

January and February are almost entirely dry in the Godavari basin, the rainfall during these two months being less than 15 mm. During the next three months, up to end of May, it varies from 20 mm to about 50 mm, in most parts of the basin. All parts of the basin receive the maximum rainfall in the period from June to September. The Godavari basin as a whole receives 84% of the annual rainfall on an average, during the Southwest monsoon, which sets in mid June and ends by mid October. The Indravati and Pranhita sub-basins receive upto 86% and 88% of the annual rainfall during the same period due to influence of the cyclonic storms which predominantly pass through these sub-basins.

1.3 Water Resources Development in the Basin

The water resources potential in Godavari basin has been assessed to be 110.54 km^3 and out of this 76.3 km^3 is utilisable. There is a vast potential for irrigation development and hydropower generation in the basin.

Prior to independence only a few irrigation projects were constructed in Godavari basin. Important among these are Godavari delta system (with Dowlaiswaram weir as head works), Nizamsagar reservoir, Kadana dam and Pravara dam. After independence, under various five-year plans a large number of multi-purpose and irrigation projects have been taken up. The most important among them are the Jaikwadi, Sriramsagar, Kadam, Upper Indravati, Singur and Godavari Barrage (by modernising the existing gated weir at Dowlaiswaram).

Since the mid-1960's, the Central Water Commission is conducting hydrological observations in Godavari basin. Hydrological observation stations have been established on main Godavari river as well as on all the important tributaries. During the year 2016-17,

hydrological observations at 50 stations have been under operation. Out of 50 stations, 8 stations are on the main Godavari and the remaining 42 are on its tributaries. In addition to gauge and discharge observations, sediment load at 16 stations and water quality monitoring at 18 stations are also being done. The location of the hydrological observation sites is shown in the basin map.

The daily discharge data at the 50 stations in Godavari basin for the year 2016-17 are presented in this Year Book. Sediment and water quality data are presented in separate Suspended Sediment Year Book (Volume II) and Water quality Year Book (Volume III) respectively. Bed material analysis is also included in Sediment water year book.

The hydrological observation stations in the Godavari basin are under the control of three field divisions of Central Water Commission. Upper Godavari Division with head quarters at Hyderabad maintains 13 stations in the upper catchment of Godavari and 19 stations in the Indravathi, Sabari sub-basins and in the Lower Godavari catchment are maintained by the Lower Godavari Division with head quarters also at Hyderabad. These two divisions are under the control of Godavari Circle at Hyderabad. The remaining 18 stations mostly in the Pranhita sub-basin are maintained by Wainganga Division with head quarters at Nagpur, which is under the control of Superintending Engineer (Co-ordination) at Nagpur.

1.4 Observation Techniques

The standard methods being adopted for collecting data are explained briefly below.

1.4.1 Gauge Observation

Water level or stage of the river is measured as its elevation above MSL datum. Water level measurement is done by reading non-recording gauges. Series of vertical staff gauges are fixed at three sections at every site. Enameled gauge plates with metric unit markings are fixed on the gauge posts so that gauges can be read up to three decimals. Out of the three gauging lines, the central one is used as station gauge line and readings of the other two lines are used for calculation of water slope. During monsoon season, gauges are read hourly at the station gauge line. During non-monsoon season gauges are read thrice daily at 0800 hours, 1300 hours and 1800 hours.

1.4.2 Discharge Observation

Discharge observations are conducted once a day at 0800 hours by area-velocity method on all days except on Sunday and holiday.

The river width is generally divided into 15 to 25 segments based on the degree of accuracy as outlined in IS: 1192-1981. The width of the river is measured by steel/metallic tape or wire rope stretched across the river with segment markings indicated thereon, when the river width is quite small and the flow depths permit wading. For larger widths of above 152.4 Meter with deeper flow conditions as in floods, pivot point method is used for aligning the Boats / Launches at the desired R.Ds in the station gauge line.

The depth measurements are carried out by using sounding rod for depths up to 3 metre and by using long bamboo for depths between 3 metre and 6 metre. For depths exceeding 6 metre sounding reel measurements at segment points are resorted to, and in impracticable situations the depths are measured by echo sounder or computed from the most recent cross-sections of the river.

The velocity is measured as per IS 3918 - 1966 by using a cup type current meter conforming to IS 3910 - 1992. The current meter is lowered to the requisite depth i.e. 0.6 of total depth down the vertical at every segment point by suspension equipment as specified in IS: 6064 - 1971 and where the depth is less than 0.3 metre, the velocity is observed just below the water surface.

At medium and high stages with significant flow velocities, boats fitted with power engines are used. At some stations cableway has been established for navigating the boat. At cableway stations, no power engines are required for the boats. Measurements of velocity are some times carried out from road bridges, wherever feasible, when it becomes difficult to keep the boat stable for velocity observations due to the river flow conditions. When none of the above procedures is possible, float observation is resorted to.

The data observed as above at the site is entered in the prescribed standard forms to compute the total river discharge and it is then computerized using Surface Water Data Entry System (SWDES) software at each Sub-divisional data processing centre. After Primary

validation at division level, the data is processed & finalized in Regional data processing centre using the HYMOS software.

1.4.3 Computation of discharge for non-observed days

The stages and corresponding discharges measured during each season (monsoon or non-monsoon) are exported to HYMOS from SWDES. Stage-Discharge curve will be generated in HYMOS giving weightage to all the observation points and discarding such observations which appear inaccurate. The S-D curve for the current season is then finalized such that it is free from bias and passes all the goodness of fit tests. It is also compared by superimposition with the previous year's S-D curve and shift, if any, of the current year's curve is studied with reference to changes in the river cross-section and using the stage-area and stage-velocity diagrams for verification. On satisfactory conclusion of the appropriateness of the shift, the S-D curve of the current season is finalized and used for computation of discharge from the rating curve against 0800 hours water level for non observed days and for the discarded points.

1.5 Explanatory Notes

The explanatory notes given below are to assist in the interpretation of the hydrological parameters contained in the data presented subsequently.

i. Water year commences from 1st of June of a calendar year and extends to 31st of May of the next calendar year.

ii. Discharges given are daily-observed flows. For non-observations days, discharges are estimated against 0800 hours gauge reading in cubic metre per second (cumec).

iii. The zero RL of gauge is a reference point datum level fixed for each site and is kept 1 or 2 metre lower than the lowest water level of a perennial stream. In a non-perennial stream, it is kept 1 metre lower than the bed level of the stream.

iv. Discharge is rounded off to
   a) Nearest full integer when it exceeds 1000 cumec.
   b) Nearest first decimal value when it is between 100-999 cumec.
   c) Nearest second decimal value when it is between 10-99 cumec.
   d) Nearest third decimal value when it is less than 10 cumec.

v. Maximum and minimum discharges (observed / computed) of the month are taken from daily discharges.

vi. Run-off in millimetres (mm) is the notional depth of water over the drainage area up to the discharge measurement station converted as equivalent to the calculated Annual run-off, which is computed using the following relation.

$$\text{Run-off (mm)} = \frac{\text{Annual run-off (Million cubic metre)} * 1000}{\text{Catchment area (sq.km)}}$$

vii. The peak and the lowest discharge on record correspond to the measuring time (Discharge measuring time is generally from 08.00 hours to the end of discharge measurement) and are not corresponding to absolute peak and lowest observed water

viii. The gauging site's code number is a unique seven-column alphanumeric reference number, which facilitates storage and retrieval of flow data in data banks. The first character is identifier of either an integral river basin or for convenience a region having several contiguous river catchments. This is followed by a character, which identifies an independent river system, which either has one or more outlets to the sea or crosses international border to enter another country. The third, fourth and fifth character denotes first, second and third order of tributaries respectively from the sea/international boundary moving upstream. The sixth and seventh characters indicate the location of gauging site earmarked on the river. Blank spaces, if any, are filled by zeros.

1.6 Highest Flood level of the year:-

Highest Flood level occurred with date and time of occurrence and corresponding discharge has been introduced in History sheet of each site from this year.

1.7 Interpretation of Graphical representations

Histogram-Hydrograph, Bar Chart and a pie diagram etc; are automatically generated by the software based on the data entered, which are briefly interpreted below.

i. **Histogram-Hydrograph:** This graphical representation reveals (a) Maximum discharge historical, which means, highest discharge observed, on a day, in each month of water year, in the entire period of available data. (b) Similarly minimum historical discharge means, lowest discharge observed, on a day, in each month of water year, in the entire period of available data. (c) Mean discharge-Historical means, average value of discharge, for each month, in a water year, for the entire period of available data including current year. (d) Mean discharge current year means, average value of daily discharge in each month, in current water year. Therefore this graph represents maximum, minimum discharge observed on a day and mean of each month discharge for all years for which data is available and comparing these values with current year monthly mean values.

ii. **Bar chart of Runoff:** This is the graphical representation of annual runoff of each water year, for all years of available data, including current year, in million cubic meter (MCM) using the following formula.

iii. Daily discharge, in Cubic meter per second X (60 X60X24/ 1000000) = Runoff of the day in MCM.

iv. Sum of daily Run off, in a year, gives annual runoff. This chart compares annual run off of each year at a site for all years of available data.

v. **Pie Diagrams:** Pie diagram of monthly average runoff represents average percentage of annual run off, for each month of water year, of all years, for which data is available including current year. Similarly current year pie diagram represents percentage of annual runoff of each month in current water year. This representation shows monthly contribution of water yield, in annual runoff, at a particular site. The monthly run off may vary from one site to another site depending up on rain fall at upstream in that region.

vi. **Superimposed cross section:** The profile of riverbed along standard discharge section is recorded, at on set and off set of monsoon at each site and superimpose the same, to find out cross sectional variations of riverbed.

vii. **E) Water level Vs Time Charts:** At each site 3 highest peak floods have been represented by these charts, showing water level ,date and time of occurrence with a time span of 72 hours (3 days) for each flood.

1.8 Method of presentation

Site-wise hydrological data history sheets, flow tables and pictorial summary is presented in this volume. The serial order of hydrological stations is arranged along the river moving upstream from the sea or confluence with main river /international boundary towards its source, giving due priority to sites on intermediate tributary in similar way.

The flow tables indicate the following.

a) Daily discharges (in cumec)
b) Ten-daily mean discharges (in cumec)
c) Monthly mean discharge (in cumec)
d) Monthly maximum and Minimum discharges (in cumec)
e) Annual Run-off (in M.cum and mm)

9

Not To Scale

HISTORY SHEET

			Water Year	:	**2016-2017**
Site	:	**Polavaram**	**Code**	:	**AG000C3**
State	:	Andhra Pradesh	District		West Godavari
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 2, Rajahmundry
Drainage Area	:	307800 Sq. Km.	Bank	:	Right
Latitude	:	17°15'07"	Longitude	:	81°38'53"
Zero of Gauge (m)	:	10.897 (m.s.l)	03.07.1964	-	
		Opening Date	Closing Date		
Gauge	:	01.01.1966	**HFL During 2016-17**	:	**24.547**
			Corres.Discharge	:	**30844.273 Cumecs(Estimated)**
Discharge	:	01.01.1966	**Date& Time of**	:	**13.07.2016**
			Occurance	:	**04:00**
Sediment	:	25.10.1966			
Water Quality	:	25.10.1966			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	29760	25.217	06.09.1966	46.51	12.247	04.06.1966
1967-1968	35161	24.687	05.08.1967	62.28	12.357	12.06.1967
1968-1969	26189	22.427	19.08.1968	51.11	12.387	22.06.1968
1969-1970	35462	25.142	23.09.1969	100.6	12.517	22.05.1970
1970-1971	38701	26.297	23.08.1970	140.7	12.729	01.06.1970
1971-1972	16881	21.745	03.09.1971	46.93	12.282	31.05.1972
1972-1973	27949	23.870	07.07.1972	48.43	12.280	01.06.1972
1973-1974	30564	24.417	28.08.1973	77.53	12.207	01.06.1973
1974-1975	18110	22.270	13.08.1974	97.90	12.467	19.05.1975
1975-1976	39364	25.192	11.09.1975	133.5	13.032	29.05.1976
1976-1977	46299	26.517	23.07.1976	114.1	12.962	14.06.1976
1977-1978	34964	24.442	25.08.1977	115.8	13.287	19.04.1978
1978-1979	38229	25.542	18.08.1978	131.4	13.205	13.06.1978
1979-1980	32864	24.897	07.08.1979	114.3	13.002	25.05.1980
1980-1981	29468	24.075	05.08.1980	118.1	13.007	02.06.1980
1981-1982	43841	25.922	13.08.1981	156.3	12.957	15.05.1982
1982-1983	15247	21.817	19.08.1982	115.4	12.767	06.05.1983
1983-1984	40716	26.627	15.08.1983	128.5	12.832	18.06.1983
1984-1985	19943	22.702	04.08.1984	125.9	13.422	14.05.1985
1985-1986	16442	21.957	15.08.1985	89.91	13.322	04.06.1985
1986-1987	57311	28.017	16.08.1986	111.6	13.112	12.06.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	15169	21.705	11.07.1987	74.88	13.297	25.05.1988
1988-1989	43506	25.525	30.07.1988	69.03	13.177	08.06.1988
1989-1990	35936	24.477	27.07.1989	136.2	13.777	09.06.1989
1990-1991	61658	27.277	25.08.1990	314.0	14.657	26.05.1991
1991-1992	29469	23.637	19.08.1991	138.3	13.997	30.05.1992
1992-1993	39003	24.967	17.08.1992	123.9	13.917	16.06.1992
1993-1994	19062	21.832	06.08.1993	83.90	13.697	31.05.1994
1994-1995	43105	26.002	07.09.1994	69.05	13.627	03.06.1994
1995-1996	35259	24.912	23.10.1995	356.2	13.707	29.05.1996
1996-1997	11290	20.317	23.07.1996	184.1	13.297	11.06.1996
1997-1998	13266	21.117	03.08.1997	142.7	12.902	13.06.1997
1998-1999	16477	22.082	18.09.1998	87.27	13.167	28.05.1999
1999-2000	22714	22.987	09.08.1999	78.35	13.147	06.06.1999
2000-2001	35217	25.297	31.08.2000	55.11	13.287	23.04.2001
2001-2002	33764	24.967	23.08.2001	65.20	13.527	01.06.2001
2002-2003	29786	24.127	27.08.2002	56.84	12.597	13.05.2003
2003-2004	25862	24.342	28.07.2003	49.42	12.637	13.06.2003
2004-2005	18725	21.742	04.08.2004	227.2	13.067	16.04.2005
2005-2006	43703	25.897	21.09.2005	183.9	13.307	27.06.2005
2006-2007	52811	27.297	07.08.2006	220.4	13.347	07.05.2007
2007-2008	47249	24.712	10.08.2007	93.83	13.227	27.05.2008
2008-2009	26975	23.957	08.08.2008	34.00	13.127	01.05.2009
2009-2010	11249	20.217	29.08.2009	74.63	13.772	03.06.2009
2010-2011	39047	25.707	09.08.2010	94.94	13.847	09.06.2010
2011-2012	23943	23.502	03.09.2011	156.1	13.247	28.04.2012
2012-2013	26290	23.692	07.09.2012	167.1	13.787	16.06.2012
2013-2014	38328	26.087	04.08.2013	155.8	14.377	16.12.2013
2014-2015	34000	25.007	09.09.2014	154.8	13.997	02.03.2015
2015-2016	22433	22.822	23.06.2015	94.34	13.247	24.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	13.657	151.4	16.505	2772	18.207	5780	18.427	6368	20.302	11527	15.150	1237
2	13.602	141.1	16.502	2906	18.127	5722	18.382	6013	20.077	11058 *	15.067	1144
3	13.642	141.1	16.977	3501 *	18.437	6524	18.322	5951	20.267	11189	14.925	1059
4	13.717	148.5	19.387	8638	20.377	11773	18.257	6052 *	20.037	10653	14.842	998.7
5	13.707	127.6 *	18.437	6117	21.397	15856	18.437	6474 *	21.547	16352 *	14.817	958.7
6	13.707	127.6	17.840	4953	20.632	12742	18.602	7427	20.052	10766	14.737	799.0 *
7	13.777	138.3	17.507	4464 *	21.237	15139 *	18.272	6414	19.047	8353	14.757	869.0
8	13.777	148.4	17.155	3838	22.152	18625	17.627	4952	19.117	8210 *	14.747	911.6
9	13.837	159.8	16.997	3535 *	21.612	16810	17.227	4008	18.537	6715 *	14.747	913.7
10	13.887	176.5	16.697	3045 *	21.097	14822	16.927	3417 *	19.777	10088	14.677	843.9
11	13.877	176.3 *	19.622	9957	20.487	10890	17.447	4349 *	20.247	11612 *	14.627	827.7
12	13.857	176.1 *	24.297	31407	19.362	8113	17.487	4425 *	21.027	14347 *	14.547	664.4 *
13	13.847	169.8	24.512	32116	18.577	6812 *	19.697	9874 *	20.089	10978	14.517	644.5 *
14	13.797	143.5	23.677	24026	17.987	5450 *	20.417	11373	18.942	7732	14.537	657.7 *
15	13.802	142.9	22.600	19756	17.647	4740 *	20.877	14221	18.332	5923	14.427	644.6
16	13.912	225.1	20.750	11486	17.352	4073	20.462	11359	17.857	5172 *	14.457	651.7
17	13.887	205.3 *	19.317	8764 *	17.272	3883	20.187	10485	17.462	4471	14.437	592.8 *
18	13.867	204.9	18.300	5981	17.522	4630	19.787	10148 *	17.065	3961	14.357	543.6 *
19	13.837	167.9 *	17.617	4217	17.342	4211	19.032	7497	16.625	3133	14.357	543.6 *
20	13.797	159.5	17.297	4016	17.082	3632	18.387	6117	16.320	2548	14.317	519.8 *
21	13.742	159.2	17.057	3857	16.797	3204 *	18.047	5580 *	16.087	2171 *	14.257	485.3 *
22	13.717	156.8	17.275	4189	16.460	2827	18.357	5910	15.897	1932 *	14.297	508.2 *
23	13.677	154.4	17.557	4712	16.160	2281	18.902	7861	15.737	1743 *	14.327	525.7 *
24	13.587	147.0	17.647	4740 *	15.997	2106	18.772	6890	15.557	1701	14.317	519.8 *
25	13.517	176.9	18.157	6007	15.830	1888	18.287	6121 *	15.472	1646	14.257	520.3
26	13.557	213.7 *	18.672	6929	15.747	1792	18.132	5664	15.387	1571	14.257	522.9
27	13.687	714.7	18.922	7601	15.812	1817	19.912	10713	15.297	1477	14.247	479.7 *
28	14.592	666.5	18.682	7315	16.087	2171 *	21.707	16998 *	15.212	1435	14.207	491.0
29	14.542	4643	18.637	7106	16.705	3454	22.067	18503 *	15.172	1421	14.197	482.7
30	17.437	4643	18.302	5923	17.437	4329 *	21.307	15408 *	15.097	1092 *	14.187	467.7
31			17.917	5299 *	18.537	7094			15.097	1243		
Ten-Daily Mean												
I Ten-Daily	13.731	146.0	17.400	4377	20.327	12379	18.048	5708	19.876	10491	14.846	973.5
II Ten-Daily	13.848	177.1	20.799	15173	18.063	5644	19.378	8985	18.396	6988	14.458	629.0
III Ten-Daily	14.205	1167	18.075	5789	16.506	2997	19.549	9965	15.456	1585	14.255	500.3
Monthly												
Min.	13.517	127.6	16.502	2772	15.747	1792	16.927	3417	15.097	1092	14.187	467.7
Max.	17.437	4643	24.512	32116	22.152	18625	22.067	18503	21.547	16352	15.149	1237
Mean	13.928	496.9	18.736	8360	18.241	6877	18.992	8219	17.830	6201	14.520	700.9

Annual Runoff in MCM = 86240 Annual Runoff in mm = 280

Peak Observed Discharge = 32116 cumecs on 13-07-2016 Corres. Water Level :24.512 m

Lowest Observed Discharge = 127.6 cumecs on 06-06-2016 Corres. Water Level :13.707 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	14.177	464.6	13.967	336.9 *	13.747	268.0	13.747	264.7	13.827	279.6	13.757	261.8
2	14.177	447.8	13.947	315.2	13.757	272.4	13.747	263.1	13.767	251.7 *	13.747	240.5
3	14.137	427.9	13.957	319.1	13.777	255.6 *	13.747	280.8	13.777	278.4	13.797	247.5
4	14.117	409.9 *	13.897	306.5	13.787	287.1	13.747	273.2	13.777	275.6	13.867	214.8
5	14.117	413.5	13.897	309.4	13.787	259.6 *	13.787	259.6 *	13.747	244.0 *	13.937	204.4
6	14.117	402.8	13.937	312.9	13.787	283.5	13.877	317.0	13.797	295.8	14.007	203.9
7	14.077	389.6 *	13.937	309.2	13.777	270.8	13.887	320.2	13.797	293.6	13.887	301.1 *
8	14.047	359.2	13.937	323.2 *	13.777	272.1	13.867	320.2	13.797	263.6 *	13.737	238.3
9	14.017	316.4	13.897	298.5	13.777	270.4	13.867	315.4	13.707	228.8 *	13.692	176.8
10	14.017	360.3 *	13.897	301.6	13.797	278.1	13.867	310.7	13.717	259.6	13.717	232.6 *
11	14.017	360.3 *	13.917	312.7	13.797	263.6 *	13.847	284.1 *	13.707	257.4	13.737	202.2
12	14.027	365.1 *	13.917	310.5	13.827	275.8 *	13.847	284.1 *	13.727	275.7	13.717	232.6 *
13	14.007	312.5	13.917	310.0	13.787	275.9	13.857	279.0	13.737	278.4	13.717	232.6 *
14	14.007	355.6 *	13.877	296.8 *	13.777	285.0	13.897	305.5 *	13.747	244.0 *	13.697	180.2
15	13.997	350.8 *	13.827	275.8 *	13.777	255.6	13.867	292.6 *	13.747	282.2	13.637	175.5
16	13.997	350.8 *	13.797	279.1	13.747	259.3	13.867	314.5	13.747	244.0 *	13.597	169.3
17	14.027	334.3	13.747	254.0	13.787	280.1	13.917	305.7	13.767	282.0	13.617	196.8 *
18	14.027	365.1 *	13.747	244.0 *	13.787	277.5	13.887	302.5	13.767	284.7	13.627	200.2 *
19	14.027	337.7	13.757	247.8 *	13.787	259.6 *	13.857	288.3 *	13.857	259.1	13.627	200.2 *
20	14.027	333.0	13.797	264.3	13.787	286.1	13.847	302.3	13.957	254.4	13.687	221.5 *
21	13.997	350.8 *	13.797	273.3	13.787	282.5	13.887	313.1	13.907	261.1	13.757	167.4
22	13.977	341.5 *	13.797	263.6 *	13.757	259.3	13.867	309.3	13.797	240.1	13.637	233.2
23	13.967	315.4	13.807	217.0	13.777	280.2	13.847	297.8	13.777	255.6 *	13.587	180.2
24	13.967	313.5	13.807	267.0	13.757	250.9	13.847	298.0	13.837	263.5	13.637	191.5
25	13.947	327.7 *	13.797	275.3	13.797	283.5	13.847	301.7	13.887	278.4	13.777	186.7
26	13.927	303.3	13.787	259.6 *	13.797	263.6 *	13.837	280.0 *	13.947	239.1	13.775	204.3
27	13.917	293.9	13.767	266.7	13.797	293.8	13.817	283.2	13.937	236.0	13.787	259.6 *
28	13.957	314.9	13.767	258.1	13.747	255.7	13.817	288.4	13.947	327.7 *	13.737	197.9
29	13.947	315.1	13.757	247.8 *			13.837	280.0 *	13.857	221.0	13.697	224.0
30	13.927	307.4	13.747	256.4			13.907	313.5	13.797	263.6 *	13.777	222.0
31	13.937	310.2	13.747	257.3			13.877	308.2			13.773	254.1 *
en-Daily Mea												
I Ten-Daily	14.100	399.2	13.927	313.2	13.777	271.8	13.814	292.5	13.771	267.1	13.815	232.2
II Ten-Daily	14.016	346.5	13.830	279.5	13.786	271.9	13.869	295.9	13.776	266.2	13.666	201.1
III Ten-Daily	13.952	317.6	13.780	258.4	13.777	271.2	13.853	297.6	13.869	258.6	13.722	211.0
Monthly												
Min.	13.917	293.9	13.747	217.0	13.747	250.9	13.747	259.6	13.707	221.0	13.587	167.4
Max.	14.177	464.6	13.967	336.9	13.827	293.8	13.917	320.2	13.957	327.7	14.007	301.1
Mean	14.020	353.3	13.843	282.9	13.780	271.6	13.846	295.4	13.805	263.9	13.734	214.6

Peak Computed Discharge = 18503 cumecs on 29-09-2016 **Corres. Water Level :22.067 m**

Lowest Computed Discharge = 127.6 cumecs on 05-06-2016 **Corres. Water Level :13.707 m**

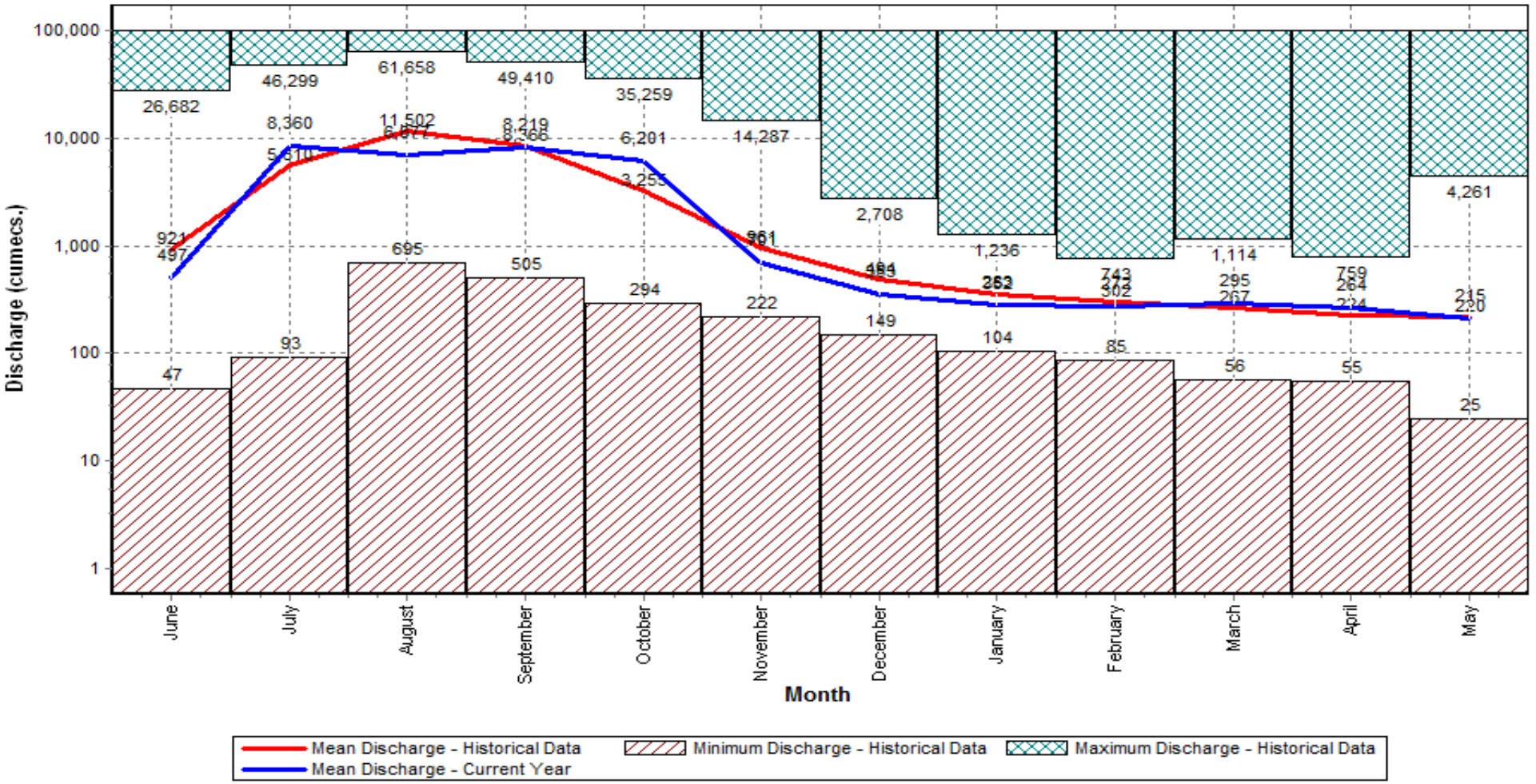
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Polavaram (AG000C3) | **Data considered : 1966-2017** | **Division : Lower Godavari Div., Hyderabad**

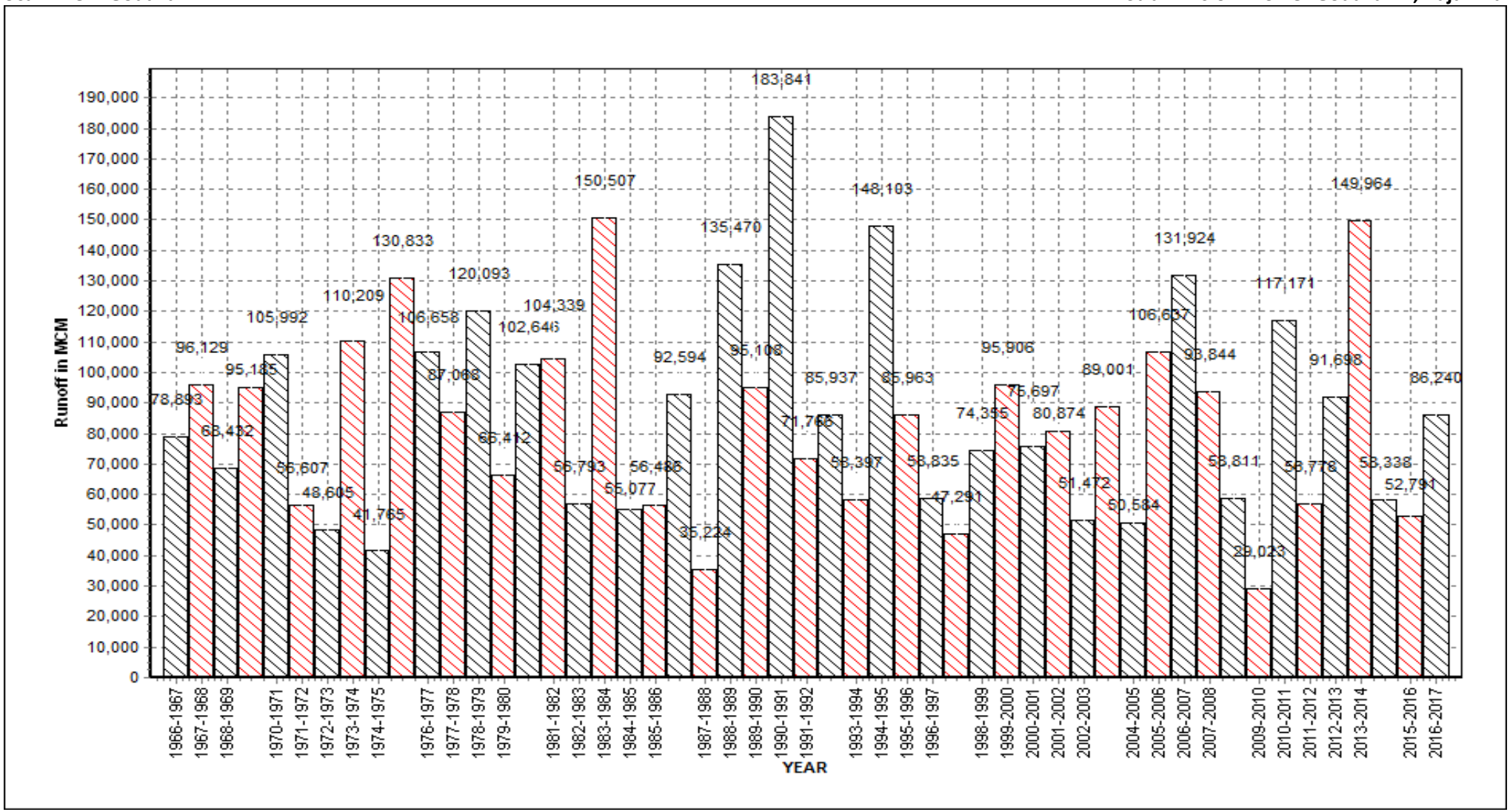
Local River : Godavari | **Sub-Division : Lower Godavari 2, Rajahmundry**



Annual Runoff Values for the period: 1966 - 2017

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**



Note: Missing values have not been considered while arriving at Annual Runoff

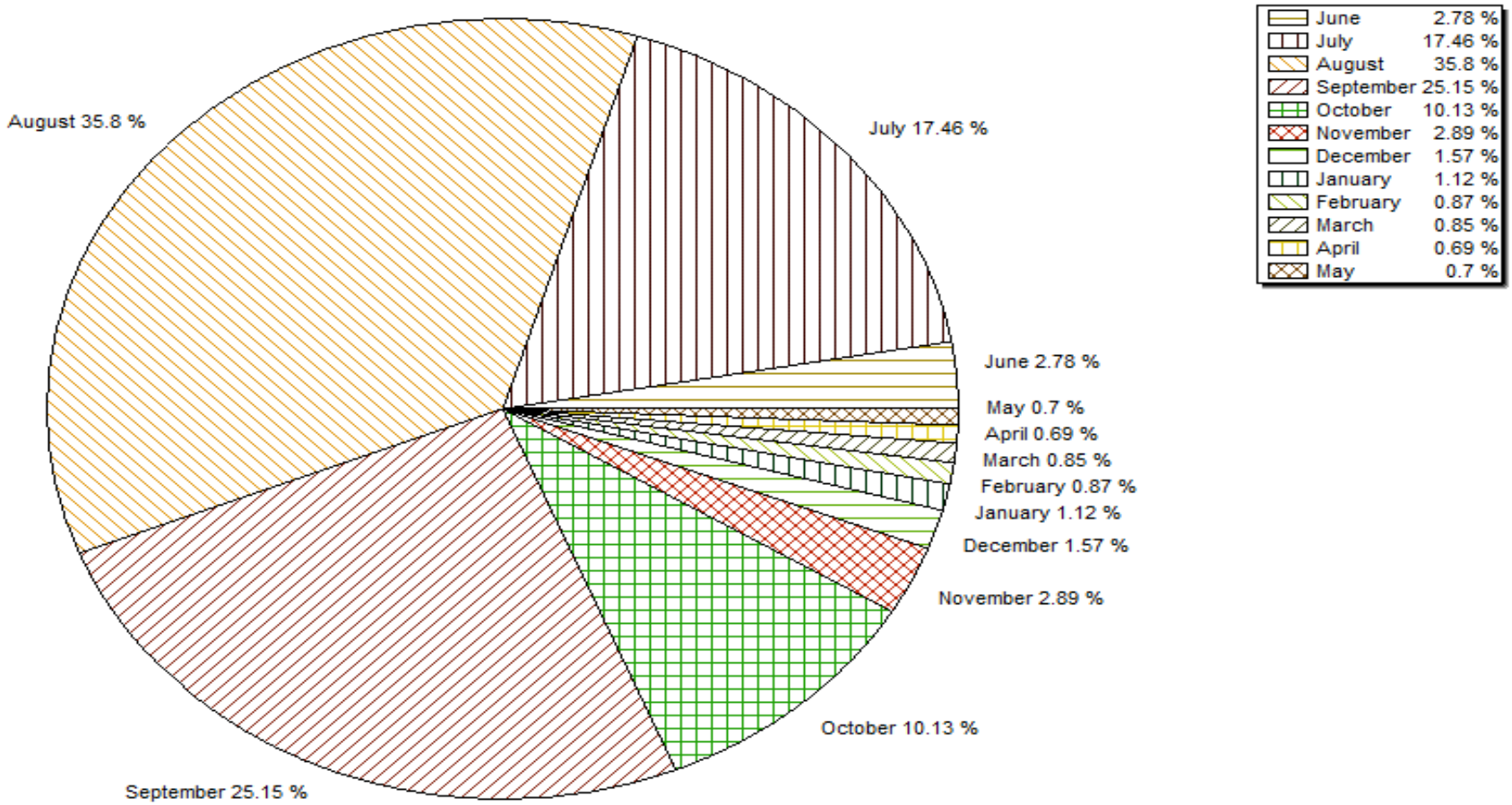
Monthly Average Runoff based on period : 1966-2016

Station Name : Polavaram (AG000C3)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 2, Rajahmundry



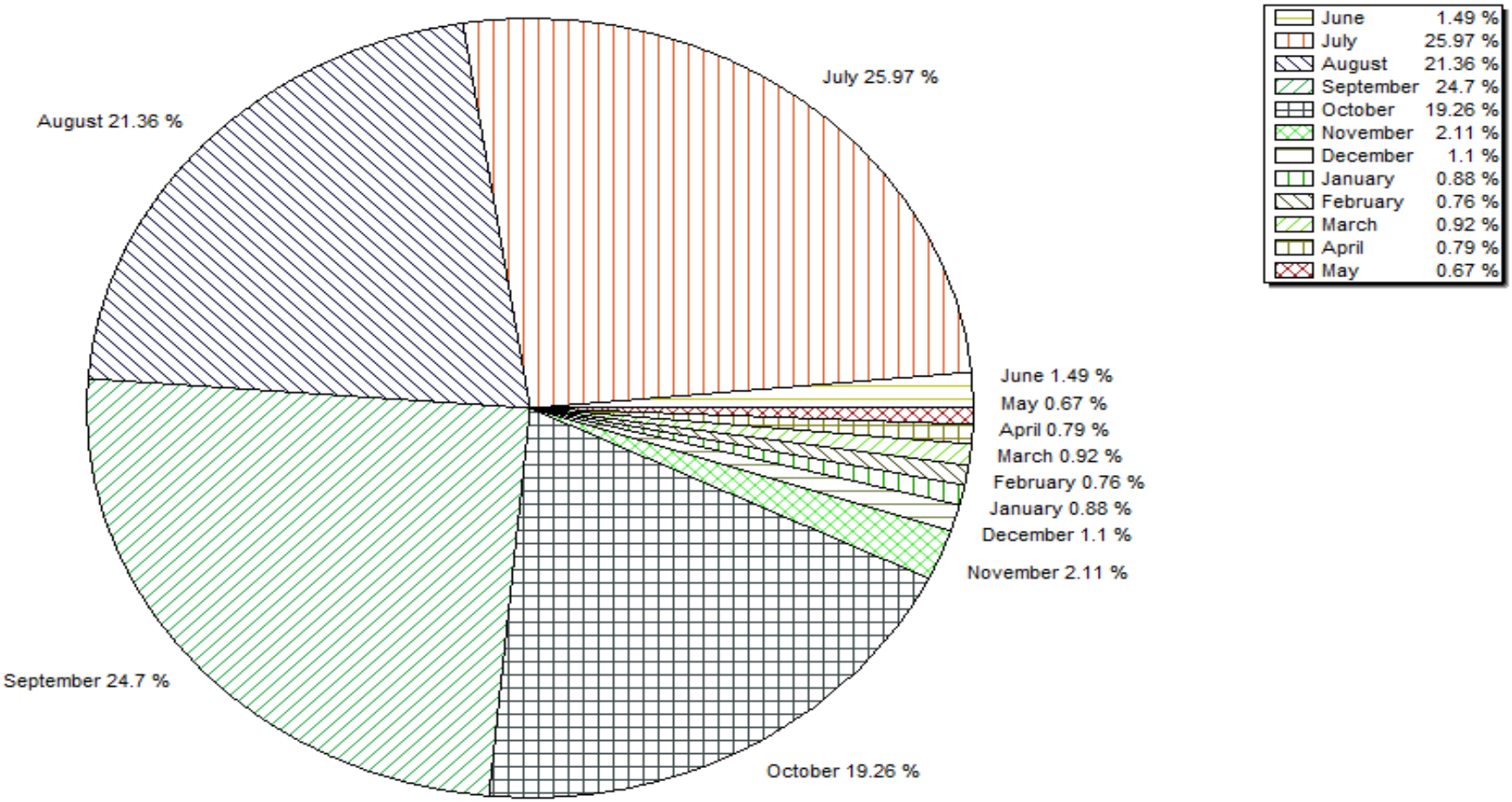
Monthly Runoff for the Year : 2016-2017

Station Name : Polavaram (AG000C3)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

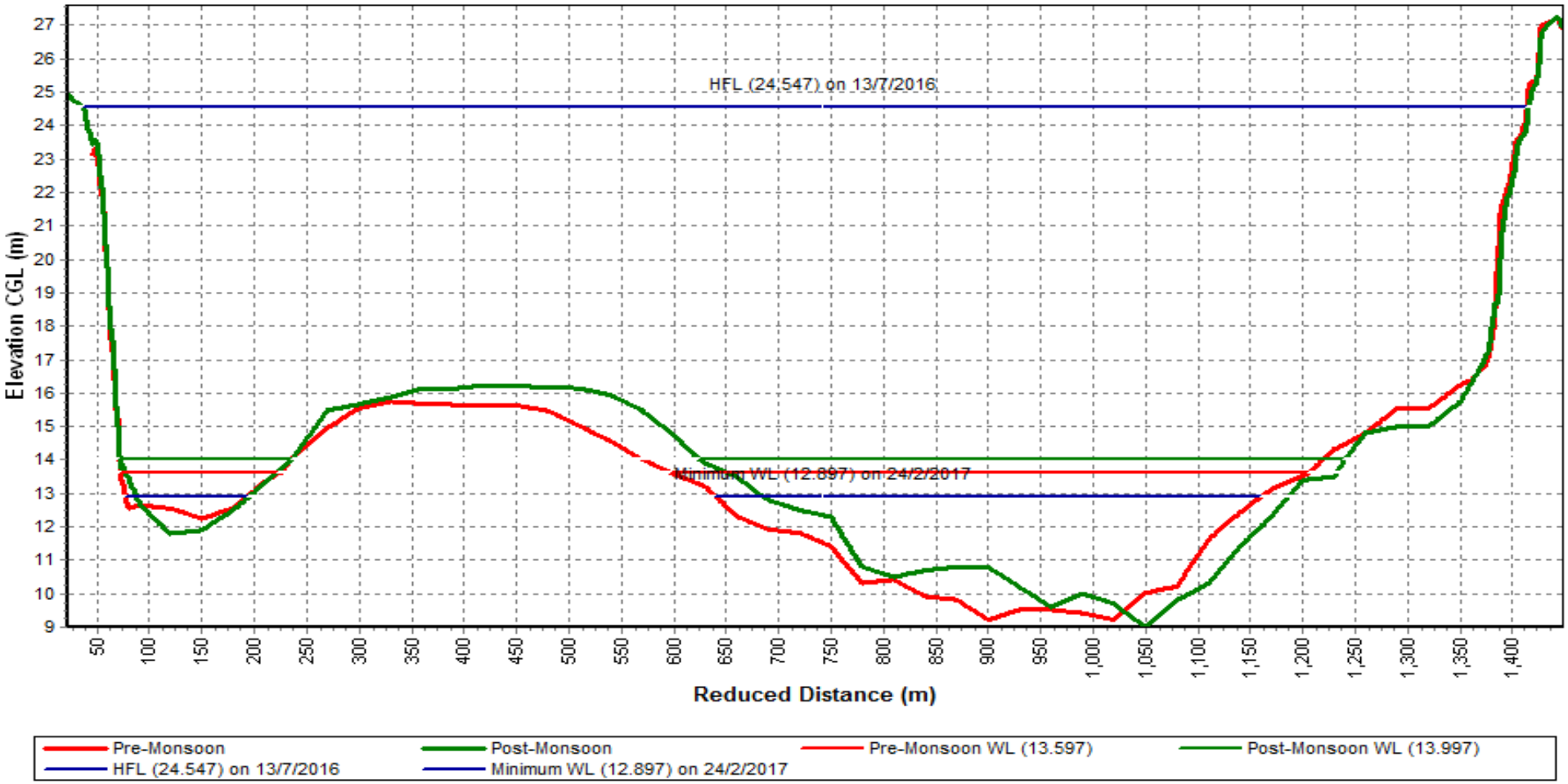
Sub-Division : Lower Godavari 2, Rajahmundry



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

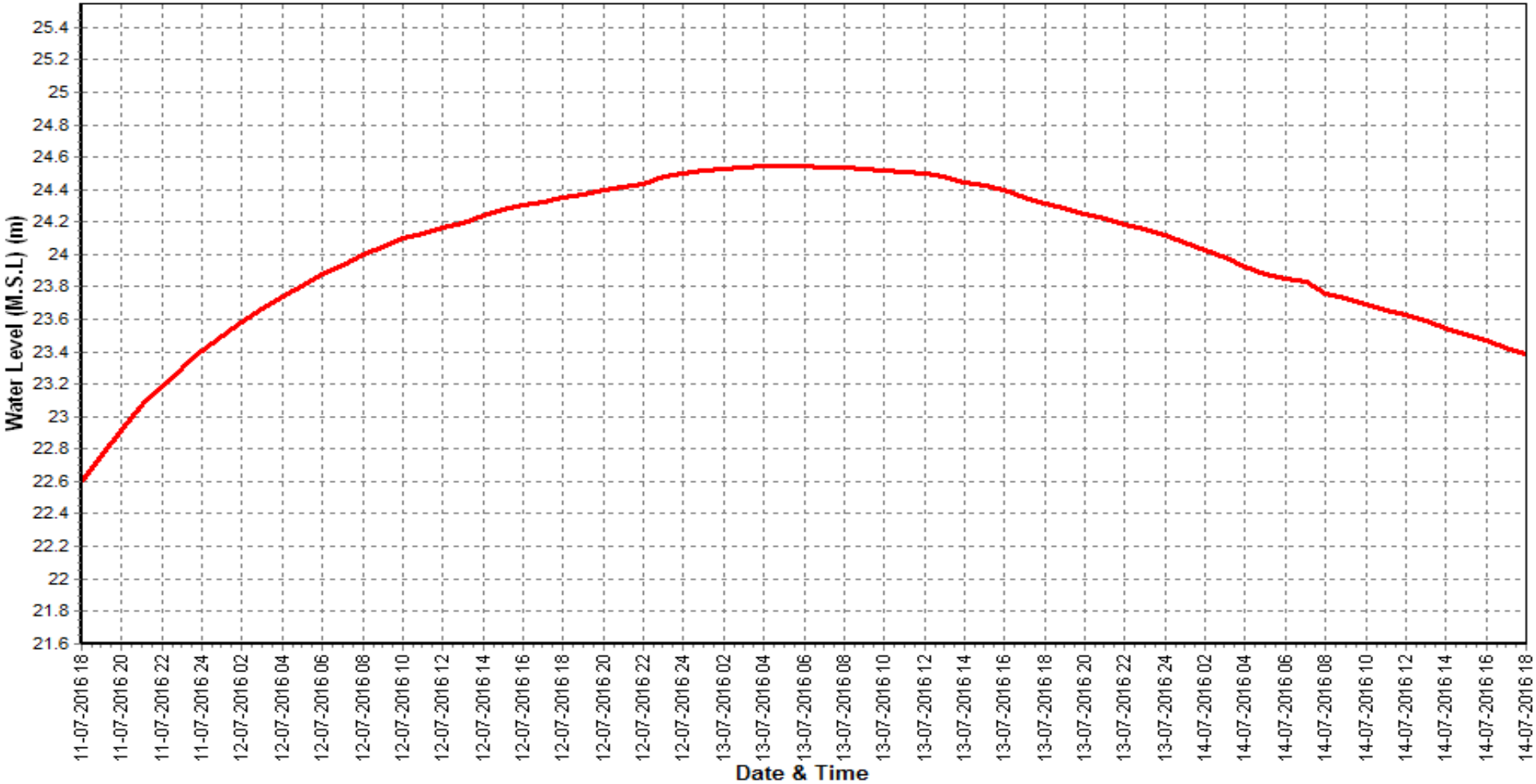
Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

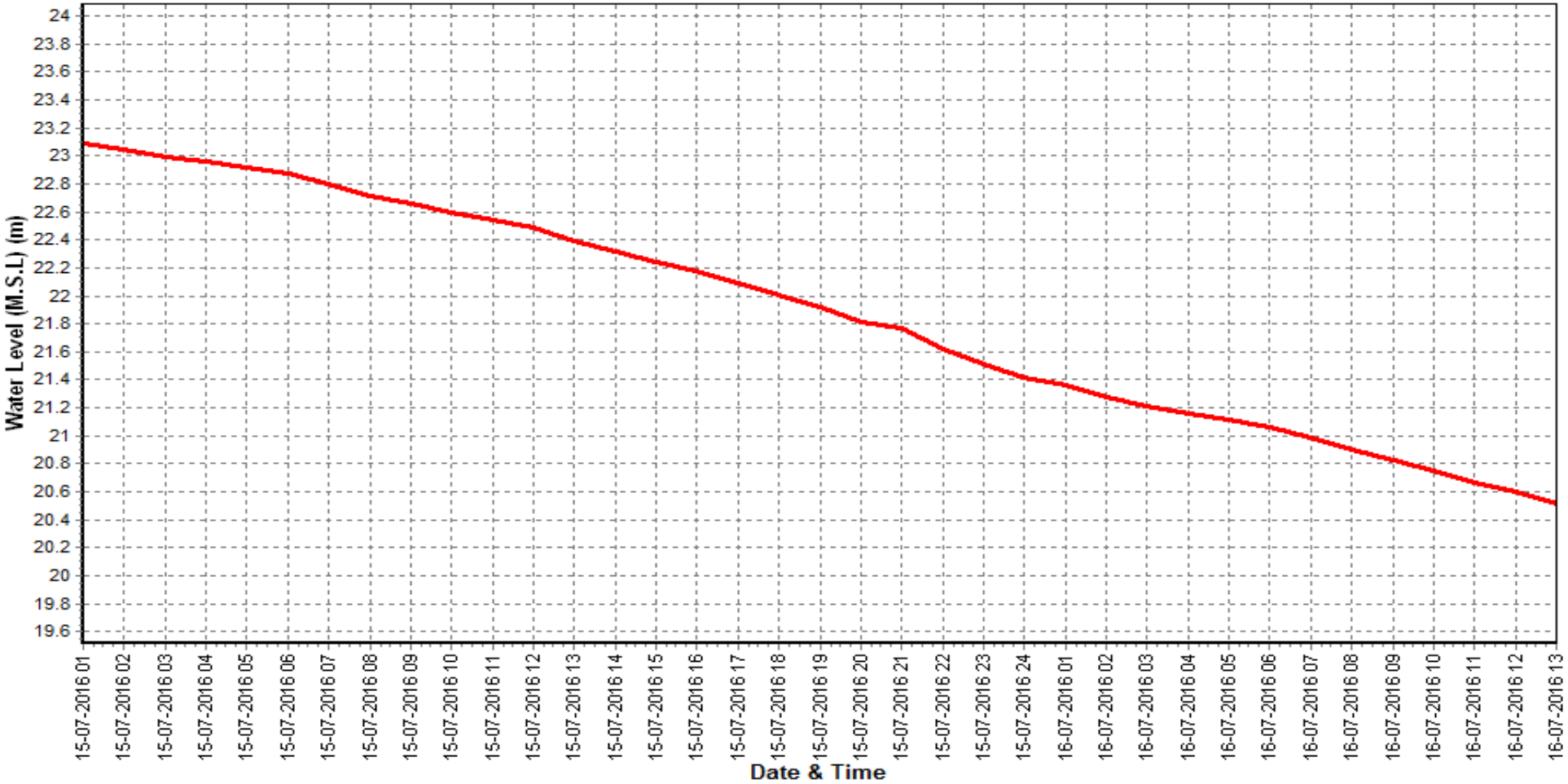


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**

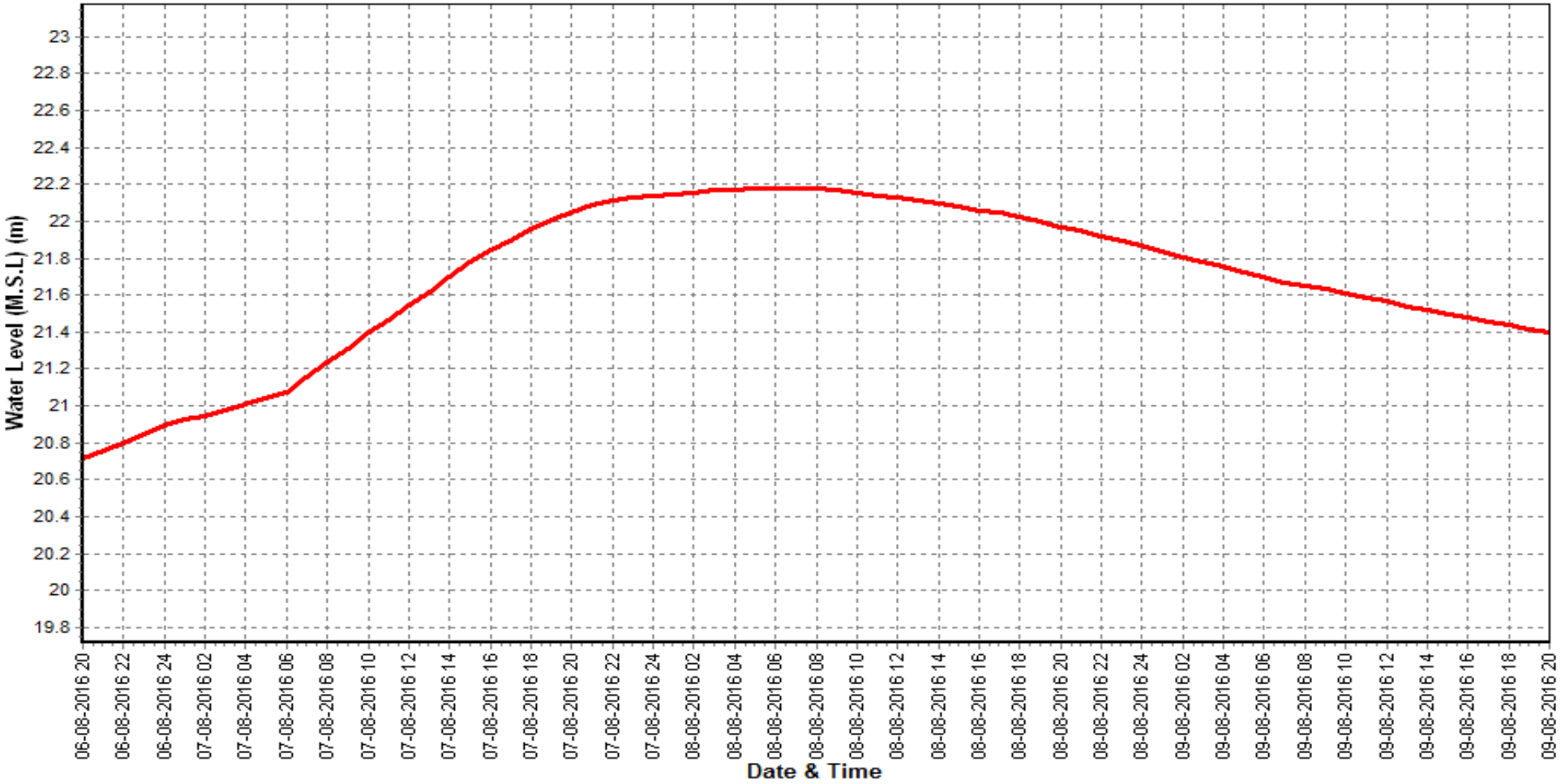


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Polavaram (AG000C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 2, Rajahmundry**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2016-2017**
Site	:	**Bhadrachalam**	**Code**	:	**AG000E7**
State	:	Telangana	District		Khammam
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 1, Bhadrachalam
Drainage Area	:	280505 Sq. Km.	Bank	:	Left
Latitude	:	17°40'05"	Longitude	:	80°52'47"
Zero of Gauge (m)	:	32.610 (m.s.l)	01.06.2007		
		Opening Date	Closing Date		
Gauge	:	15.06.2007	**HFL During 2016-17**	:	**48.26**
			Corres.Discharge	:	**40950.783 Cumecs(Estimated)**
Discharge	:	11.07.2007	**Date& Time of**	:	**12.07.2016**
			Occurance	:	**12:00**
Sediment	:				
Water Quality	:	03.10.2006			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2008-2009	25440	45.010	12.08.2008	10.30	33.190	27.05.2009
2009-2010	11661	41.390	29.08.2009	0.346	32.770	02.05.2010
2010-2011	51444	50.140	08.08.2010	7.811	33.160	06.06.2010
2011-2012	24066	44.960	03.09.2011	4.210	33.410	31.05.2012
2012-2013	28082	46.285	22.08.2012	7.499	33.410	04.06.2012
2013-2014	49188	50.960	03.08.2013	1.631	33.460	05.06.2013
2014-2015	39656	48.700	09.09.2014	18.03	33.500	08.05.2015
2015-2016	21030	44.360	23.06.2015	5.320	33.430	22.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	33.410	5.667	36.660	1791 *	38.890	5791	39.355	6842	41.490	11379	35.730	919.8 *
2	33.420	5.890	36.730	1869 *	38.710	4895	39.120	5700	41.220	10714 *	35.600	822.1 *
3	33.440	5.960	40.940	9142	39.340	6047	39.175	6086	41.495	12107	35.530	771.9 *
4	33.460	7.033	39.580	7015	42.100	13885	39.010	5395 *	42.475	16093	35.470	730.3 *
5	33.460	7.260 *	38.860	5103 *	41.515	10230	39.270	5922 *	42.570	15337	35.450	716.6 *
6	33.450	6.849	38.440	4331 *	41.585	13105	38.910	5812	40.575	8383	35.540	779.0 *
7	33.450	6.845	37.940	3499 *	43.540	18397 *	38.370	4860	40.320	7695	35.470	730.3 *
8	33.530	9.948	37.740	3192 *	43.385	17640	38.010	3610 *	39.450	6302 *	35.410	689.8 *
9	33.520	9.318	37.470	2802 *	42.795	15616	37.740	3192 *	39.810	7100 *	35.390	676.6 *
10	33.490	8.304	37.210	2451 *	42.285	13711	37.370	2664 *	41.140	11432	35.380	670.0 *
11	33.830	47.74 *	46.435	31908	41.055	10766	37.370	2664 *	41.950	12896 *	35.350	650.5 *
12	33.840	49.36 *	48.110	40088 *	39.765	6639	39.725	6940	42.360	14216 *	35.300	618.8 *
13	33.845	49.96	47.270	35434 *	39.020	5415 *	41.190	12401	40.310	7463	35.220	569.7 *
14	33.870	55.50	45.510	25517	38.510	4455 *	41.600	12297	39.510	5978	35.170	540.1 *
15	33.830	50.12	43.160	15763	38.030	3642 *	41.970	13110	38.930	4907	35.120	511.3 *
16	33.810	45.51	40.995	9424	37.900	3436 *	41.480	11658	38.470	4384 *	35.070	483.4 *
17	33.820	46.07	39.600	6628 *	38.320	4677	41.125	10460	38.080	3722 *	35.030	461.7 *
18	33.825	45.90	38.610	4739	38.125	2731	40.390	8491 *	37.610	3001 *	34.990	440.5 *
19	33.820	46.14 *	38.225	3859	37.850	3359 *	39.410	5480	37.260	2516 *	34.940	414.7 *
20	33.790	41.26	37.730	3177 *	37.520	2872 *	38.685	4775	37.020	2210 *	34.930	409.6 *
21	33.750	35.90	37.770	3237 *	37.170	2399 *	38.460	4252	36.780	1925 *	34.950	419.8 *
22	33.770	39.56	38.060	3594	36.820	1971 *	38.530	4471	36.560	1682 *	34.970	430.1 *
23	33.730	32.57	38.090	3644	36.590	1714 *	39.475	5911	36.390	1506 *	34.930	409.6 *
24	33.770	39.92	38.640	4690 *	36.480	1598 *	38.825	4542	36.340	1457 *	34.880	384.9 *
25	33.790	41.46	39.565	6356	36.270	1388 *	38.690	4783 *	36.250	1369 *	34.860	375.2 *
26	34.200	127.6 *	40.105	7284	36.280	1398 *	39.110	5656	36.130	1257 *	34.850	370.4 *
27	34.350	171.8 *	39.705	6565	36.460	1578 *	43.585	18638	36.020	1159 *	34.830	360.9 *
28	34.560	245.5 *	39.825	6558	36.640	1769 *	43.365	17994	35.950	1098 *	34.800	346.9 *
29	35.200	557.8 *	39.580	6200	37.860	3374 *	43.640	18602	35.880	1040 *	34.760	328.7 *
30	36.610	1736 *	38.870	5692	39.255	7741	41.930	12544	35.840	1007 *	34.720	311.0 *
31			39.170	5716 *	39.235	6284			35.790	966.8 *		
Ten-Daily Mean												
I Ten-Daily	33.463	7.307	38.157	4119	41.415	11932	38.633	5008	41.054	10654	35.497	750.6
II Ten-Daily	33.828	47.75	42.565	17654	38.610	4799	40.295	8828	39.150	6129	35.112	510.0
III Ten-Daily	34.373	302.8	39.035	5413	37.187	2838	40.561	9739	36.175	1315	34.855	373.8
Monthly												
Min.	33.410	5.667	36.660	1791	36.270	1388	37.370	2664	35.790	966.8	34.720	311.0
Max.	36.610	1736	48.110	40088	43.540	18397	43.640	18638	42.570	16093	35.730	919.8
Mean	33.888	119.3	39.890	8944	39.010	6404	39.830	7858	38.709	5881	35.155	544.8

Annual Runoff in MCM = 80830 Annual Runoff in mm = 288

Peak Observed Discharge = 31908 cumecs on 11-07-2016 Corres. Water Level :46.435 m

Lowest Observed Discharge = 5.667 cumecs on 01-06-2016 Corres. Water Level :33.41 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	34.660	285.5 *	34.260	136.5 *	34.400	175.2	34.320	106.2	34.120	68.59	33.785	19.64
2	34.650	281.3 *	34.270	101.2	34.410	185.8	34.320	108.4	34.110	68.57 *	33.730	14.20
3	34.650	281.3 *	34.240	97.55	34.410	188.5	34.310	109.8	34.089	61.32	33.730	14.19
4	34.640	277.2 *	34.220	91.88	34.400	175.4	34.330	127.5	34.080	60.68	33.730	20.45
5	34.610	265.1 *	34.330	141.1	34.390	175.3 *	34.310	127.4 *	34.090	99.58 *	33.670	12.50
6	34.590	257.1 *	34.380	157.4	34.390	162.8	34.310	114.9	34.070	56.75	33.680	17.02
7	34.590	257.1 *	34.390	190.8	34.390	160.6	34.300	114.2	34.050	54.57	33.700	17.03 *
8	34.580	253.2 *	34.410	191.4 *	34.400	173.9	34.300	115.0	34.010	54.51 *	33.685	16.20
9	34.540	315.2	34.400	200.2	34.400	173.9	34.290	113.7	34.000	54.49 *	33.780	21.73
10	34.520	230.4 *	34.390	188.6	34.400	169.2	34.270	106.0	33.990	39.82	33.710	21.68 *
11	34.550	241.7 *	34.390	188.9	34.370	169.1 *	34.260	106.0 *	33.980	42.41	33.810	26.14
12	34.550	241.7 *	34.380	192.8	34.360	169.0 *	34.260	106.0 *	33.970	42.39	33.810	26.14
13	34.520	263.9	34.370	181.6	34.350	169.0 *	34.250	103.0	34.010	47.49	33.680	26.04 *
14	34.510	248.9	34.370	178.2 *	34.330	168.9 *	34.250	100.6	34.010	47.49 *	33.640	26.01 *
15	34.475	229.8	34.360	175.0 *	34.330	168.9 *	34.260	99.76	34.020	48.83	33.770	22.54
16	34.510	249.7	34.350	151.9	34.330	168.9 *	34.250	101.5	34.010	48.81 *	33.730	20.66
17	34.510	226.7 *	34.350	155.4	34.340	114.9	34.255	106.0	35.945	241.6	33.630	6.424
18	34.470	212.2 *	34.360	160.6	34.330	114.9 *	34.250	104.6	36.060	276.8	33.610	6.150
19	34.420	194.8 *	34.360	162.7	34.330	114.9 *	34.250	104.6 *	36.085	279.9	33.590	5.725
20	34.390	184.8 *	34.360	167.5	34.330	111.7	34.250	107.5	33.970	44.40	33.620	6.375
21	34.450	205.2 *	34.360	167.4	34.330	118.4	34.225	94.19	33.900	38.42	33.670	6.384 *
22	34.410	191.4 *	34.360	167.4 *	34.310	106.9	34.220	93.50	33.960	42.95	33.720	8.203
23	34.410	191.4 *	34.360	164.8	34.320	108.2	34.210	93.90	33.940	42.92 *	33.760	10.98
24	34.410	191.4 *	34.360	167.1	34.320	100.8	34.210	93.93	33.935	39.41	33.650	7.418
25	34.390	184.8 *	34.360	162.7	34.330	117.4	34.205	95.48	33.900	34.64	33.620	6.380
26	34.335	151.0	34.350	162.7 *	34.300	117.3 *	34.210	95.49 *	33.890	33.44	33.690	7.920
27	34.360	158.2	34.350	163.6	34.390	161.4	34.200	95.85	33.860	29.07	33.740	12.39
28	34.350	155.3	34.350	156.2	34.350	131.4	34.200	91.96	33.860	33.77	33.660	12.36 *
29	34.320	146.2	34.360	156.2 *			34.190	91.93 *	33.860	33.05	33.640	6.788
30	34.310	143.4	34.360	162.2			34.170	85.65	33.860	33.05 *	33.630	6.349
31	34.290	136.7	34.390	168.1			34.150	80.49			33.610	5.983
en-Daily Mea												
I Ten-Daily	34.603	270.4	34.329	149.7	34.399	174.1	34.306	114.3	34.061	61.89	33.720	17.46
II Ten-Daily	34.490	229.4	34.365	171.5	34.340	147.0	34.253	103.9	34.606	112.0	33.689	17.22
III Ten-Daily	34.367	168.6	34.360	163.5	34.331	120.2	34.199	92.03	33.896	36.07	33.672	8.287
Monthly												
Min.	34.290	136.7	34.220	91.88	34.300	100.8	34.150	80.49	33.860	29.07	33.590	5.725
Max.	34.660	315.2	34.410	200.2	34.410	188.5	34.330	127.5	36.085	279.9	33.810	26.14
Mean	34.483	221.1	34.352	161.6	34.359	149	34.251	103.1	34.188	69.99	33.693	14.13

Peak Computed Discharge = 40088 cumecs on 12-07-2016 Corres. Water Level :48.11 m

Lowest Computed Discharge = 6.384 cumecs on 21-05-2017 Corres. Water Level :33.67 m

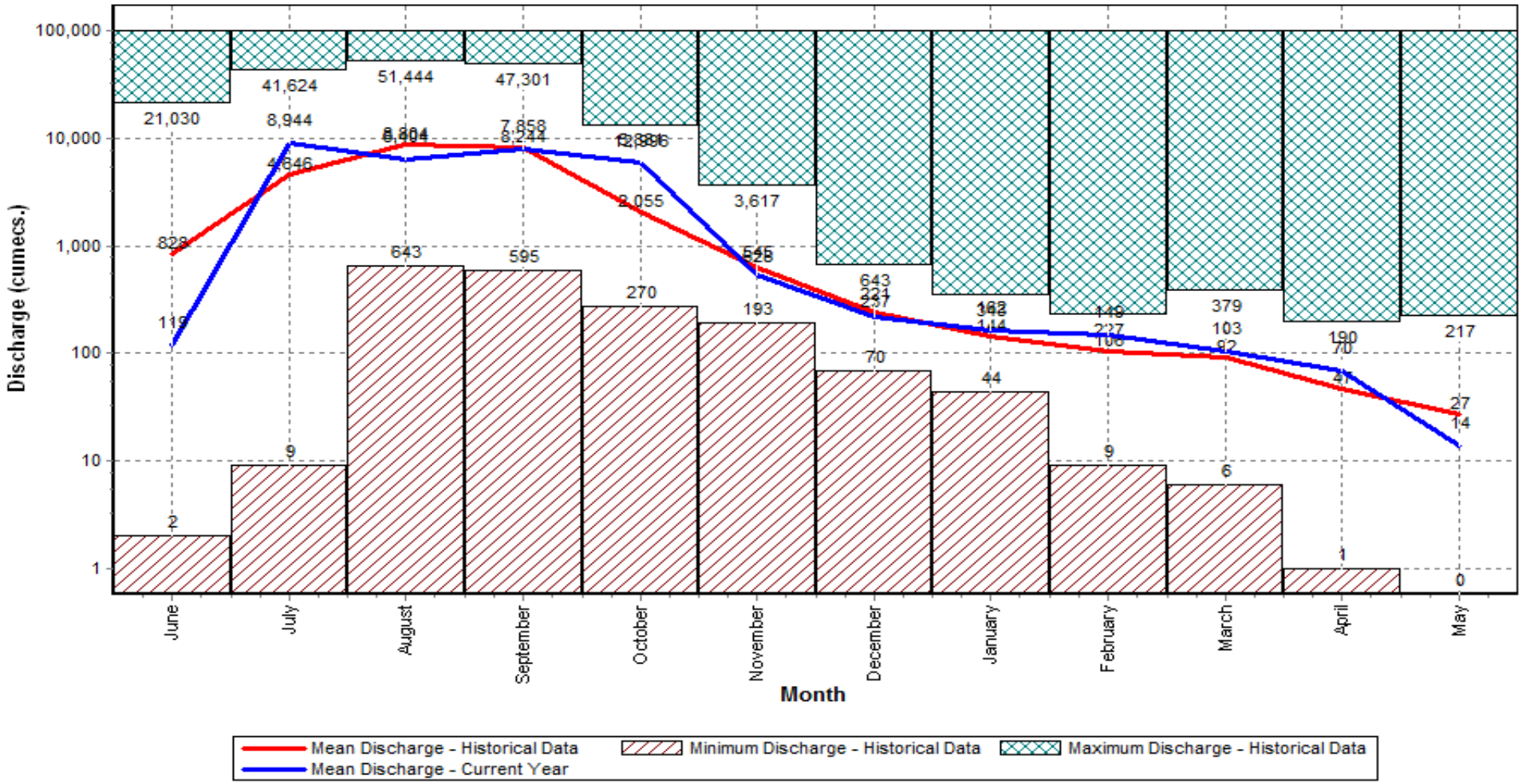
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Bhadrachalam (AG000E7) **Data considered : 2008-2017** **Division : Lower Godavari Div., Hyderabad**

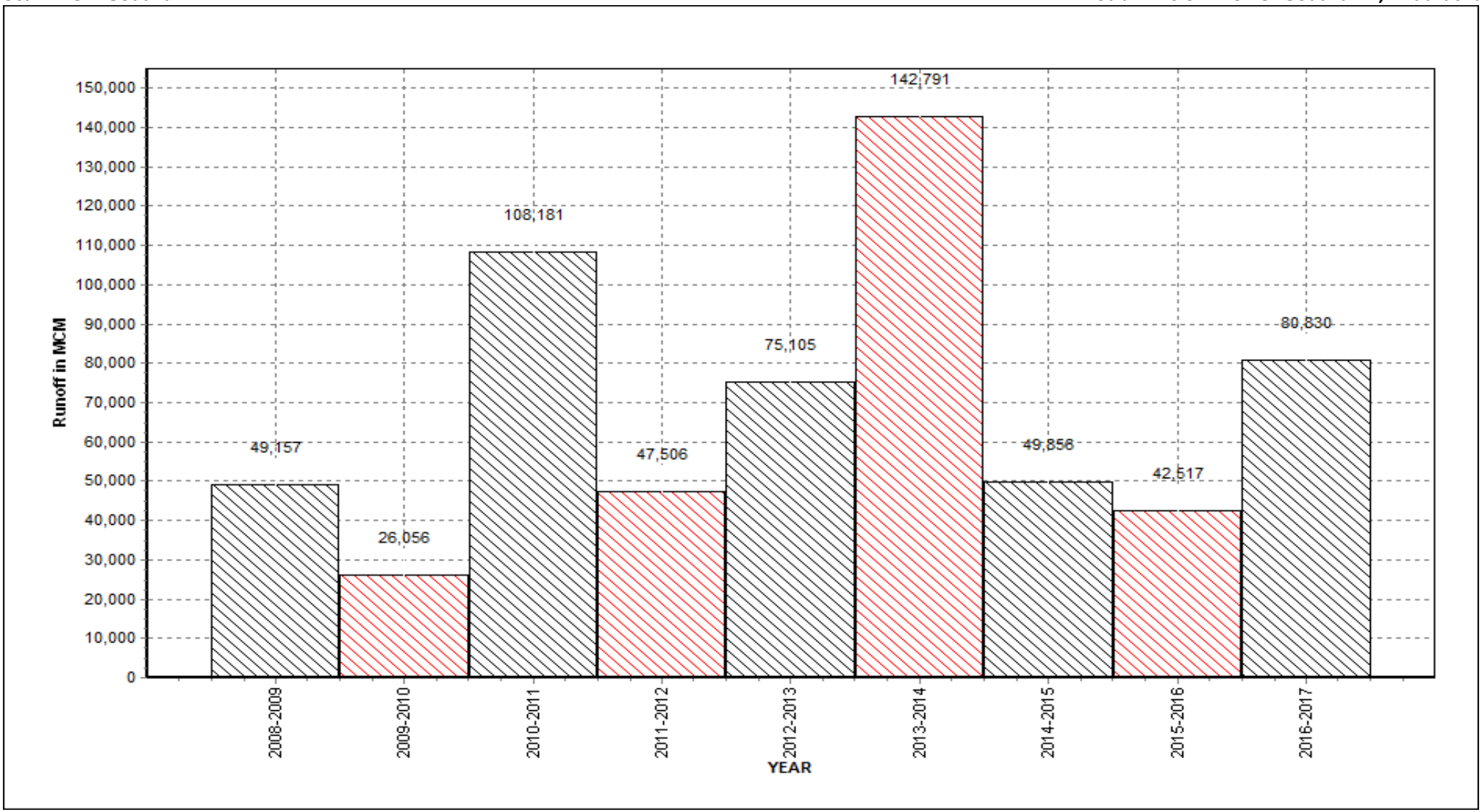
Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 2008 - 2017

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Note: Missing values have not been considered while arriving at Annual Runoff

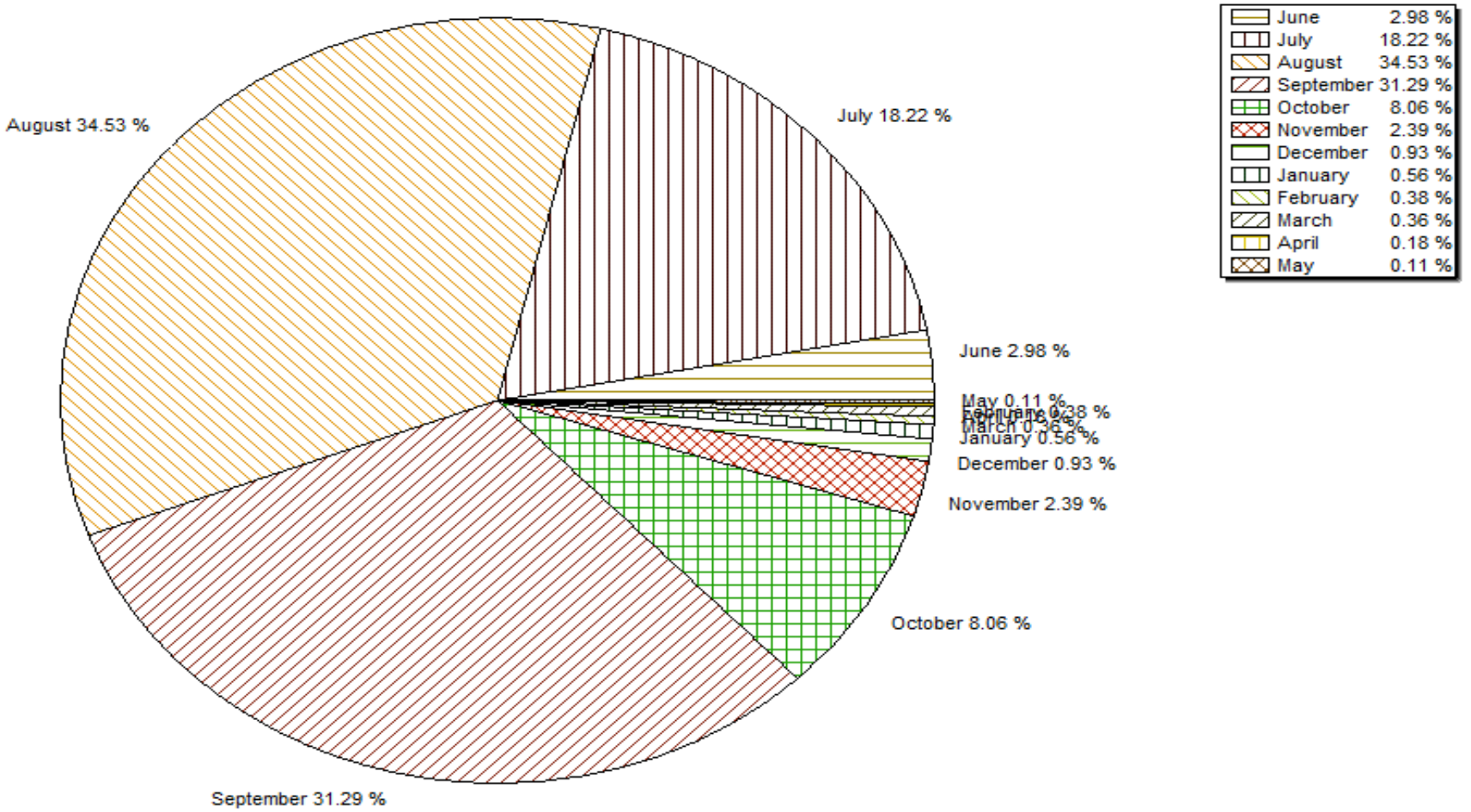
Monthly Average Runoff based on period : 2008-2016

Station Name : Bhadrachalam (AG000E7)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 1, Bhadrachalam



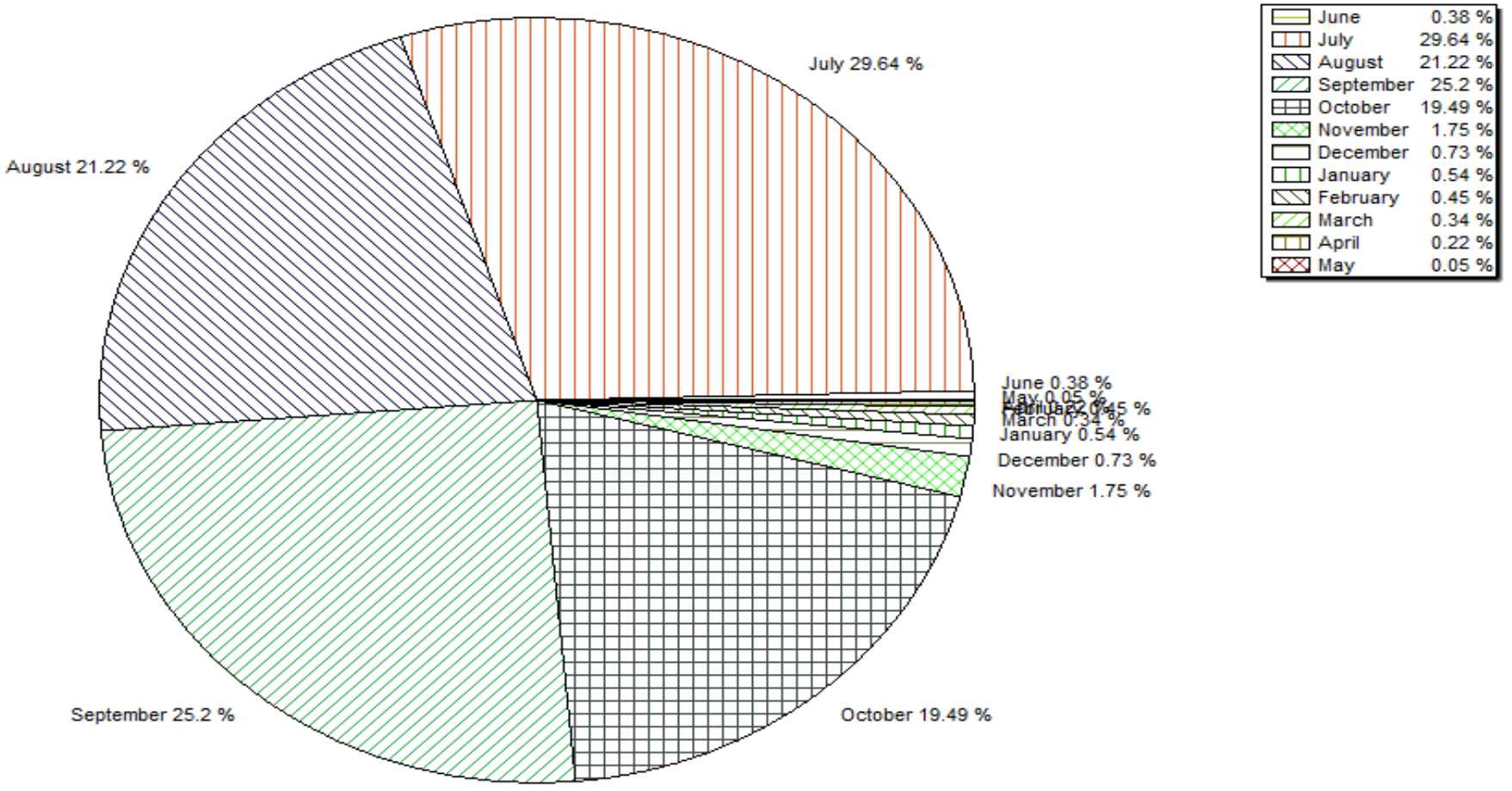
Monthly Runoff for the Year : 2016-2017

Station Name : Bhadrachalam (AG000E7)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

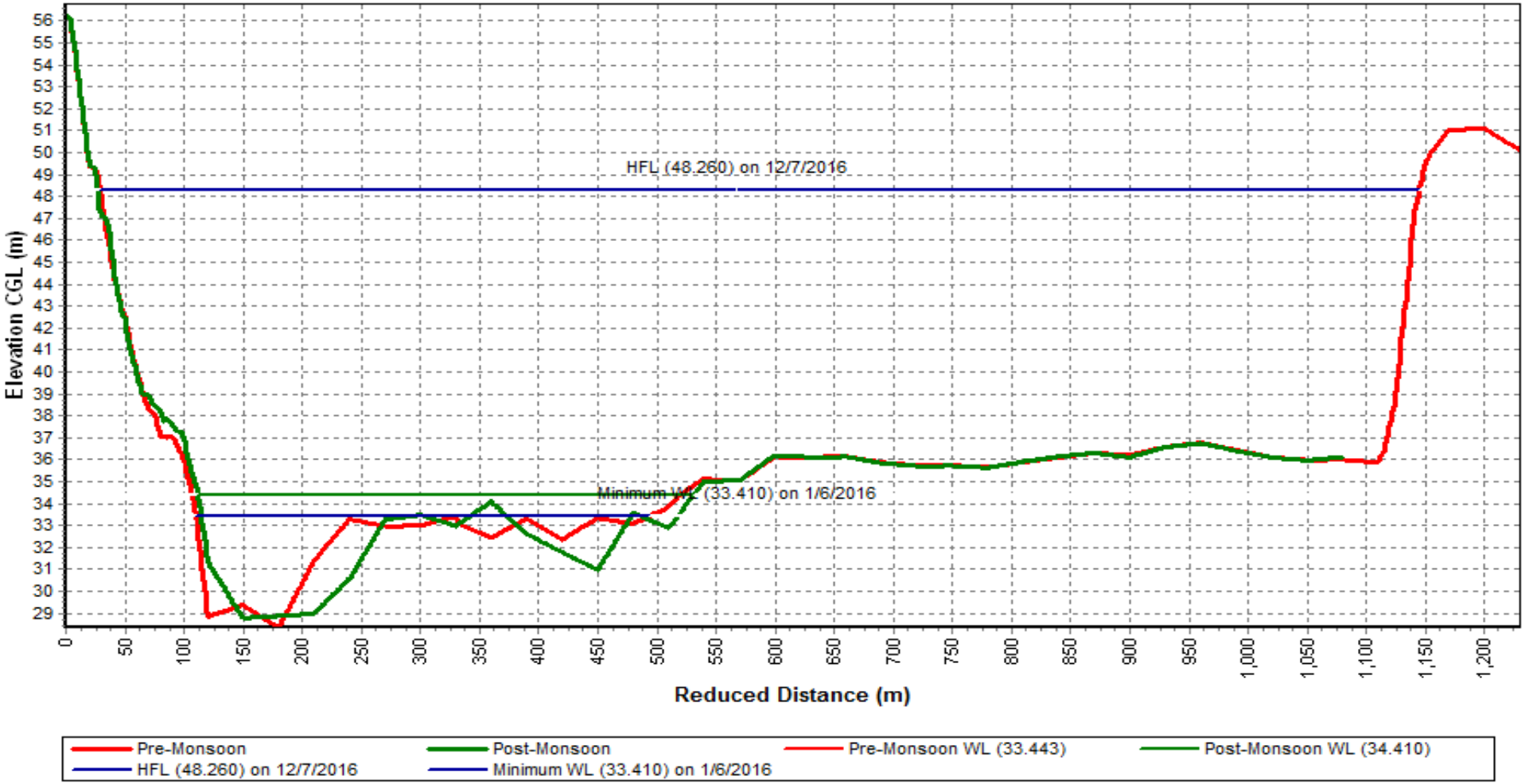
Sub-Division : Lower Godavari 1, Bhadrachalam



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

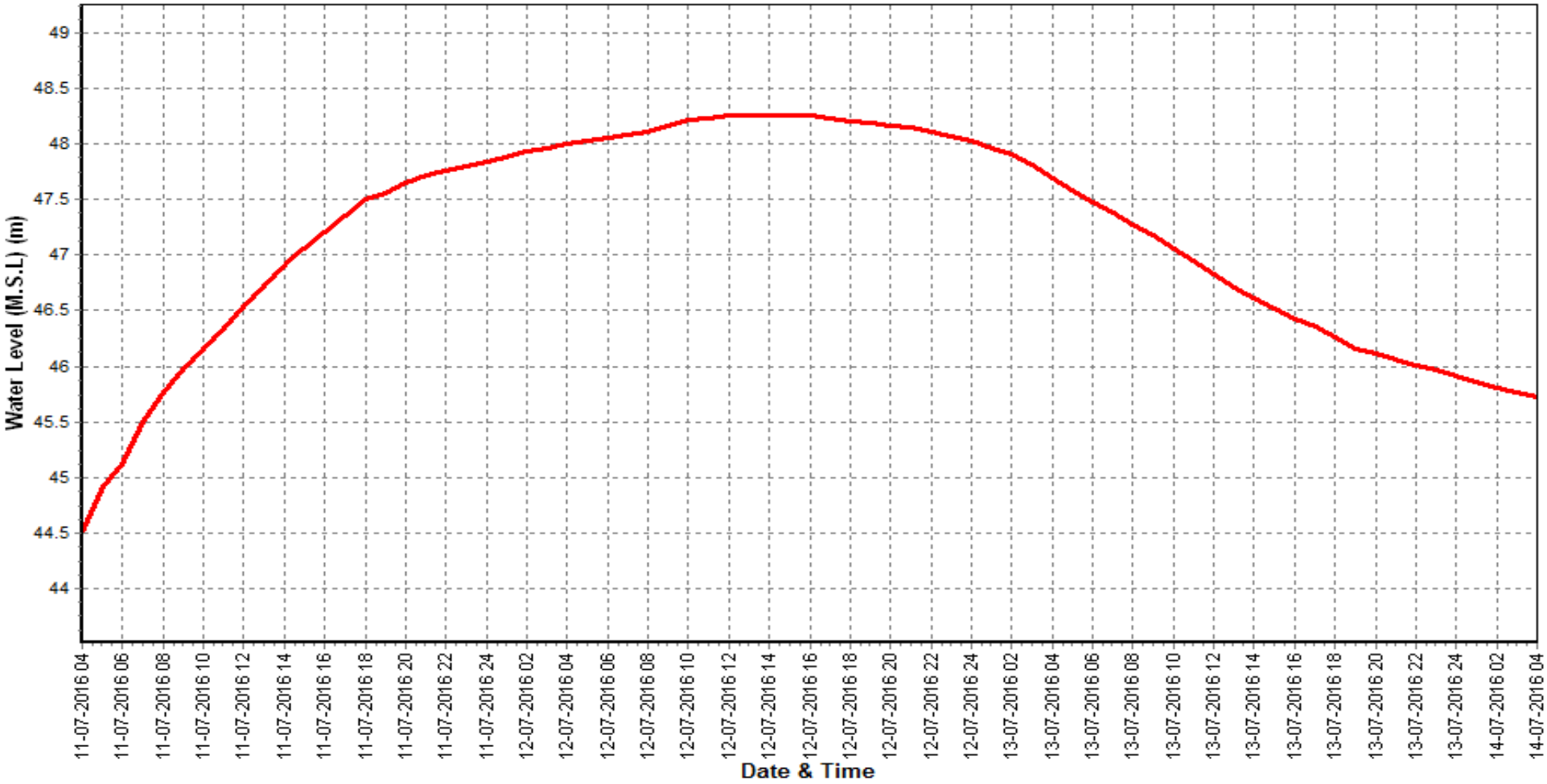
Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

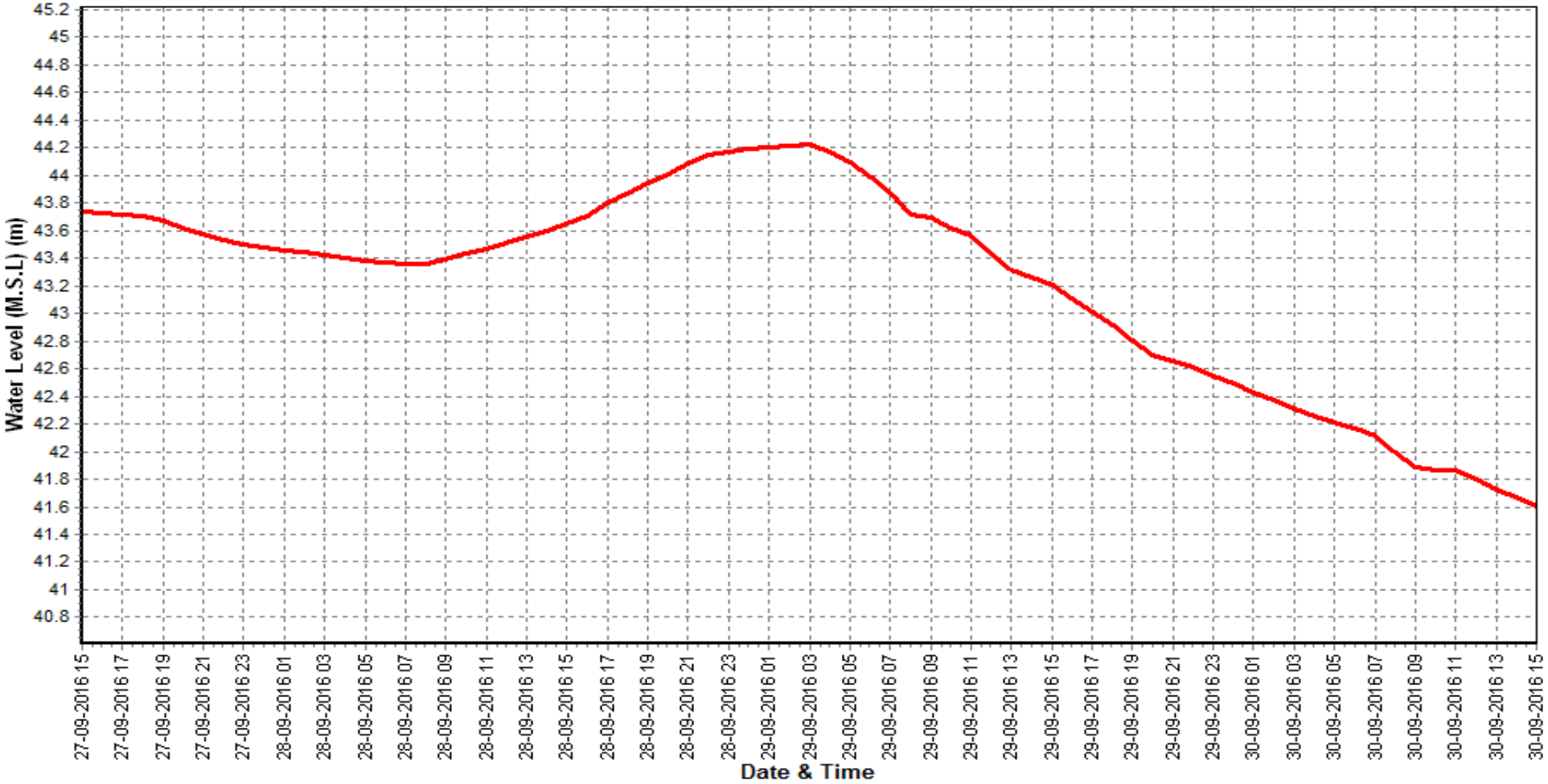


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

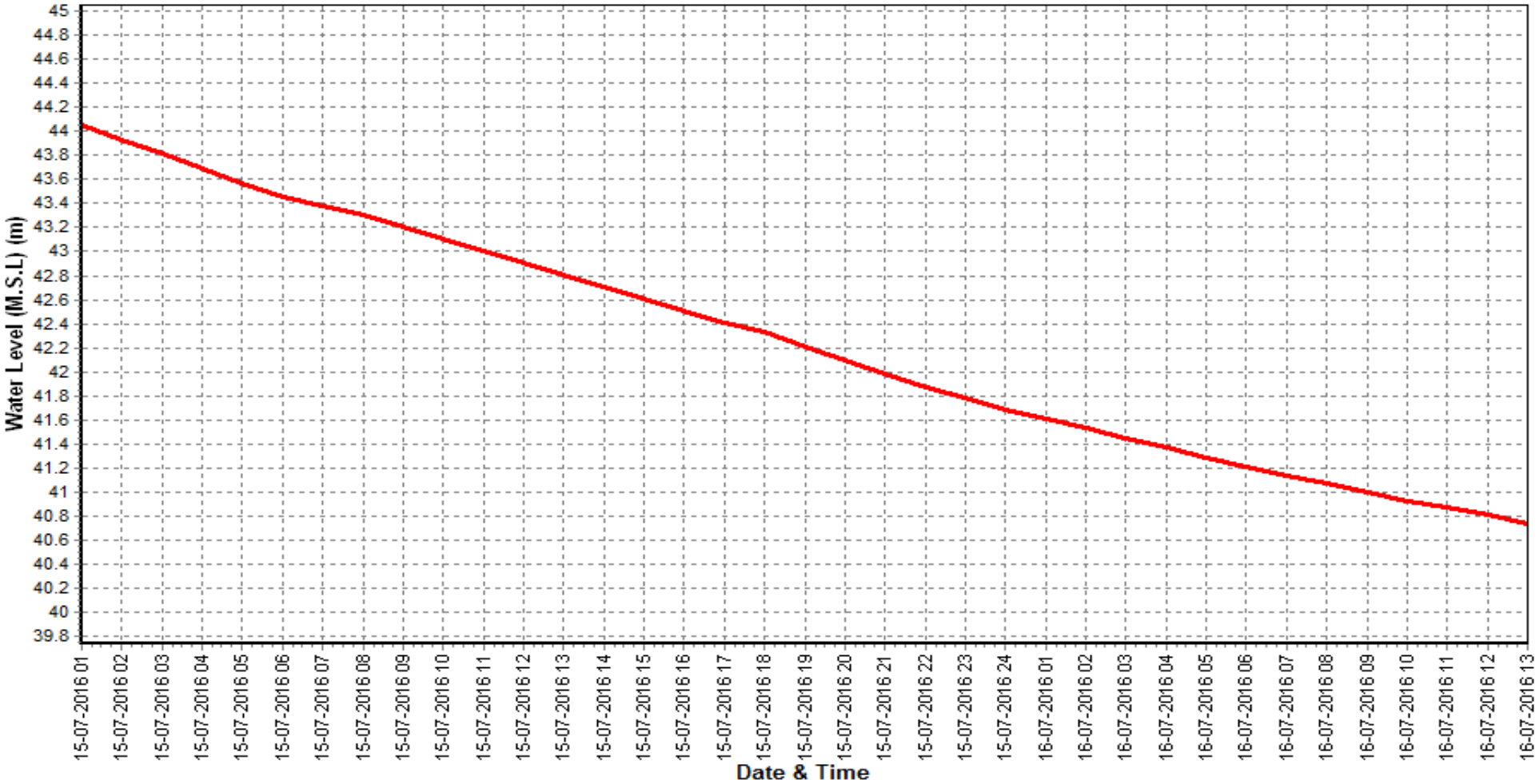


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Bhadrachalam (AG000E7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Konta**		**Code**	**: AGC00C5**	
State	: Chhattisgarh		District	Dantewara	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Sabari		Sub Tributary	: -	
Sub-Sub Tributary	: -		Local River	: Sabari	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Lower Godavari 1, Bhadrachalam	
Drainage Area	: 19550 Sq. Km.		Bank	: Left	
Latitude	: 17°48'00"		Longitude	: 81°23'00"	
Zero of Gauge (m)	: 30.1 (m.s.l) 30.43 (m.s.l) 29 (m.s.l)		05.02.1964 01.06.1976 01.06.1997	- 31.05.1976 - 31.05.1997	
	Opening Date		Closing Date		
Gauge	: 05.02.1964		**HFL During 2016-17**	**: 38.96**	
			Corres.Discharge	**: 4702.372 Cumecs(Estimated)**	
Discharge	: 28.10.1965		**Date& Time of Occurance**	**: 13.07.2016 : 04:00**	
Sediment	: 01.01.1968				
Water Quality	: 05.05.1968				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	14416	44.940	08.09.1966	23.81	30.700	15.05.1967
1967-1968	7913	41.600	02.08.1967	28.91	30.795	18.04.1968
1968-1969	10414	43.170	04.10.1968	31.61	30.720	04.06.1968
1969-1970	9788	43.480	30.07.1969	43.01	30.805	17.04.1970
1970-1971	4938	40.675	20.08.1970	45.15	30.990	29.03.1971
1971-1972	3051	37.625	06.09.1971	26.52	30.930	03.04.1972
1972-1973	6889	40.423	07.07.1972	17.64	30.990	28.03.1973
1973-1974	5210	39.800	15.07.1973	43.68	31.150	10.06.1973
1974-1975	2247	36.435	10.08.1974	34.48	31.260	22.01.1975
1975-1976	7762	42.585	10.09.1975	69.06	31.515	01.04.1976
1976-1977	7413	41.945	02.09.1976	52.97	31.740	05.06.1976
1977-1978	5867	40.715	23.08.1977	66.76	31.780	18.04.1978
1978-1979	7992	43.410	16.08.1978	101.6	31.945	12.06.1978
1979-1980	2942	37.655	26.06.1979	47.68	31.745	26.02.1980
1980-1981	4991	39.432	22.08.1980	78.28	31.895	05.06.1980
1981-1982	5762	40.535	03.08.1981	40.30	31.675	12.04.1982
1982-1983	6291	40.400	29.08.1982	46.20	31.660	04.04.1983
1983-1984	5958	41.115	05.10.1983	40.20	31.725	16.06.1983
1984-1985	8037	41.840	03.08.1984	63.10	31.760	01.05.1985
1985-1986	3213	37.830	02.08.1985	27.60	31.580	26.05.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	20187	49.910	17.08.1986	52.20	31.708	04.05.1987
1987-1988	3759	38.770	11.07.1987	33.40	31.490	17.05.1988
1988-1989	6494	41.410	29.07.1988	41.67	31.620	07.06.1988
1989-1990	5915	40.790	23.07.1989	89.70	31.995	08.05.1990
1990-1991	8568	43.170	05.10.1990	194.5	32.430	20.01.1991
1991-1992	2198	37.165	09.08.1991	78.11	31.900	28.05.1992
1992-1993	6593	41.765	16.08.1992	83.08	31.890	14.06.1992
1993-1994	1696	36.400	16.07.1993	35.64	31.605	05.04.1994
1994-1995	5317	44.660	06.09.1994	37.01	31.650	05.06.1994
1995-1996	5725	41.000	23.07.1995	169.6	32.330	01.04.1996
1996-1997	3254	38.770	23.07.1996	130.8	32.280	30.05.1997
1997-1998	2022	36.820	31.07.1997	60.00	31.305	02.06.1997
1998-1999	2053	36.510	12.07.1998	59.95	31.300	13.06.1998
1999-2000	3552	38.960	09.08.1999	122.6	31.840	24.04.2000
2000-2001	5563	40.770	30.08.2000	52.46	31.445	20.04.2001
2001-2002	3291	38.460	22.08.2001	70.16	31.620	06.06.2001
2002-2003	1745	36.260	25.08.2002	22.74	31.260	30.05.2003
2003-2004	7512	42.760	27.07.2003	22.76	31.190	08.06.2003
2004-2005	5804	40.510	05.08.2004	71.23	31.550	09.05.2005
2005-2006	8854	44.180	20.09.2005	136.4	31.955	25.05.2006
2006-2007	12181	46.450	06.08.2006	121.0	31.770	22.02.2007
2007-2008	6924	41.600	06.10.2007	106.3	31.700	26.05.2008
2008-2009	4193	39.010	30.07.2008	58.86	31.340	20.05.2009
2009-2010	1832	36.040	16.07.2009	9.349	31.040	01.01.2010
2010-2011	7021	42.020	09.08.2010	77.47	31.500	07.06.2010
2011-2012	3494	38.390	03.09.2011	62.49	31.390	21.12.2011
2012-2013	5730	40.380	06.08.2012	111.6	31.780	31.01.2013
2013-2014	6201	41.040	22.07.2013	0.000	42.250	03.08.2013
2014-2015	9768	40.520	09.09.2014	119.4	31.850	12.05.2015
2015-2016	7468	40.500	21.06.2015	49.11	31.300	12.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	31.750	115.1	33.940	816.5 *	32.760	359.8 *	33.890	797.9	33.335	558.4	32.875	377.6
2	32.200	206.2 *	34.700	1204 *	34.270	976.0 *	33.600	613.8	33.590	662.4 *	32.650	331.9
3	32.200	206.2 *	34.800	1261 *	35.850	1929 *	33.450	572.7	33.630	648.4	32.620	323.5
4	31.770	112.7	34.150	916.4 *	37.820	3549 *	33.650	687.7 *	33.565	624.9	32.625	325.3
5	31.630	92.56 *	34.060	872.9 *	37.850	3578 *	34.420	1053 *	33.295	544.0	32.465	291.4
6	31.960	153.5	33.550	645.8 *	36.920	2750 *	35.950	2000 *	33.285	539.7	32.400	256.3 *
7	31.640	89.50	33.560	649.9 *	36.600	2490 *	34.585	1035	33.115	505.7	32.345	242.6
8	31.940	149.0 *	33.490	621.3 *	36.540	2442 *	33.960	904.4	34.170	926.2 *	32.390	269.0
9	31.940	156.1	33.170	498.2 *	35.350	1594 *	33.530	608.2	34.170	926.2 *	32.265	221.2
10	31.730	103.5	33.000	438.2 *	34.370	1027 *	34.770	1244 *	34.220	951.0 *	32.320	187.3
11	31.780	118.2 *	33.480	617.2 *	33.810	757.4 *	35.730	1846 *	34.310	996.3 *	32.150	230.6
12	31.660	97.45 *	37.840	3568 *	33.640	683.5 *	35.800	1894 *	34.300	991.2 *	32.300	261.6 *
13	31.560	77.29	38.900	4638 *	33.610	670.8 *	37.030	2843 *	33.665	657.4	32.420	178.7 *
14	31.750	114.1	36.850	2692 *	33.780	744.1 *	36.200	2182 *	33.355	548.4	32.080	252.2 *
15	32.080	187.9	34.410	1048 *	33.590	662.4 *	35.180	1515	33.120	475.3	32.360	235.5
16	31.990	174.1	33.330	558.1 *	33.920	807.3 *	34.570	1014	33.000	438.2 *	32.300	221.4
17	31.945	150.9	33.440	601.2 *	34.320	1001 *	34.360	901.8	32.725	368.4	32.255	260.7
18	31.880	133.4	33.340	561.9 *	33.920	807.3 *	34.120	1034 *	32.715	348.8	32.380	212.3
19	31.770	116.4 *	33.350	565.8 *	33.820	761.9 *	33.990	1501	32.650	319.3	32.240	223.2
20	31.740	105.4	33.300	546.6 *	33.550	645.8 *	34.480	1690	32.630	321.9	32.270	249.9 *
21	31.880	132.8	33.600	666.6 *	33.350	565.8 *	35.075	1211	32.545	301.4	32.350	218.0
22	31.655	93.80	35.030	1396 *	33.240	524.0 *	35.320	798.1	32.590	335.4	32.270	252.7
23	31.620	78.42	34.280	981.1 *	32.800	372.4 *	34.800	633.8	32.680	230.9 *	32.355	204.8
24	31.670	88.58	34.360	1022 *	32.750	356.7 *	33.970	604.4	32.340	222.7	32.180	213.8
25	31.555	66.51	34.310	996.3 *	32.860	391.6 *	33.900	628.6 *	32.310	235.9	32.205	211.5
26	31.820	125.6 *	33.900	798.1 *	32.790	369.2 *	33.610	832.7	32.350	288.1	32.185	213.4
27	32.030	176.8	33.510	629.4 *	32.820	378.7 *	33.475	618.2	32.470	266.4	32.230	225.5 *
28	32.200	206.2 *	33.160	494.6 *	35.060	1414 *	33.540	628.6	32.400	260.5	32.255	211.4
29	32.920	411.2 *	32.920	411.2 *	34.490	1090 *	33.875	832.7	32.385	335.4	32.190	202.3
30	34.630	1166 *	32.770	362.9 *	34.970	1295	33.590	618.2	32.680	337.9 *	32.155	202.3
31			32.590	308.8 *	33.735	696.8			32.670	337.9		
Ten-Daily Mean												
I Ten-Daily	31.876	138.4	33.842	792.5	35.833	2070	34.180	951.7	33.637	688.7	32.496	282.6
II Ten-Daily	31.816	127.5	34.824	1540	33.796	754.2	35.146	1642	33.247	546.5	32.275	232.6
III Ten-Daily	32.198	254.6	33.675	733.3	33.533	677.6	34.116	740.6	32.493	286.6	32.237	215.6
Monthly												
Min.	31.555	66.51	32.590	308.8	32.750	356.7	33.450	572.7	32.310	222.7	32.080	178.7
Max.	34.630	1166	38.900	4638	37.850	3578	37.030	2843	34.310	996.3	32.875	377.6
Mean	31.963	173.5	34.100	1013	34.360	1151	34.481	1111	33.105	500.1	32.336	243.6

Annual Runoff in MCM = 14319 Annual Runoff in mm = 732

Peak Observed Discharge = 1690 cumecs on 20-09-2016 Corres. Water Level :34.48 m

Lowest Observed Discharge = 66.51 cumecs on 25-06-2016 Corres. Water Level :31.555 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	32.145	180.2	32.200	206.2 *	31.965	153.0	31.845	117.7	32.285	248.3	32.340	243.4
2	32.130	186.2	32.350	249.1	32.000	152.7	32.200	198.1	32.340	240.7 *	32.330	233.3
3	32.185	209.5	32.195	216.3	31.750	113.7	32.015	164.7	32.220	201.9	32.400	249.4
4	32.150	194.5 *	32.285	214.3	31.800	120.3	32.223	188.2	32.340	239.9	32.600	315.1
5	32.165	206.9	32.460	270.1	32.050	172.1 *	32.250	218.3 *	32.340	240.7 *	32.505	267.7
6	32.105	191.8	32.160	224.0	31.940	148.1	32.140	229.5	32.380	263.9	32.490	275.8
7	32.130	202.4	32.205	208.8	31.965	151.8	32.245	208.9	32.510	296.7	32.150	194.5 *
8	32.065	179.7	32.050	172.1 *	31.820	126.4	32.330	231.8	32.335	239.5 *	31.900	142.2
9	32.150	194.5 *	32.050	174.0	32.085	179.3	32.395	261.9	32.300	230.6 *	32.145	193.4
10	32.180	201.5 *	32.170	198.3	32.025	170.7	32.335	236.5	32.180	198.0	32.050	172.1 *
11	32.230	213.4 *	32.080	180.4	32.080	178.7 *	32.000	230.1 *	32.350	251.1	31.970	160.5
12	32.100	183.1 *	32.190	210.5	31.820	125.6 *	32.500	283.4 *	32.330	245.9	32.130	196.2
13	32.110	192.7	31.975	153.2	31.850	121.2	32.510	290.5	32.520	300.6	32.200	206.2 *
14	32.170	213.8	31.920	144.9 *	32.170	189.0	32.295	230.7	32.340	240.7 *	32.250	218.3 *
15	32.200	206.2 *	31.830	127.5 *	32.015	157.8	32.340	157.9	32.310	249.6	31.900	140.6
16	32.260	220.7 *	31.970	154.4	32.130	186.3	32.400	283.2	32.340	240.7 *	32.000	169.9
17	32.180	201.5 *	31.980	158.9	32.075	175.1	32.295	235.8	32.335	241.6	32.000	170.2
18	32.400	256.3 *	32.150	205.8	31.990	161.0	32.320	247.8	32.450	276.8	31.975	159.8
19	32.145	190.1	32.005	157.9	32.350	243.3 *	32.350	243.3 *	32.475	279.9	32.030	171.0
20	32.185	211.4	32.015	156.5	32.055	160.6	32.395	284.3	32.230	203.5	31.935	152.1
21	32.040	171.2	32.110	181.9	32.145	194.0	32.360	272.8	32.230	224.7	32.150	194.5 *
22	32.100	181.9	32.100	183.1 *	32.175	199.4	32.330	258.3	32.240	214.0	31.985	159.1
23	32.230	215.0	32.075	169.0	31.970	158.8	32.390	280.0	32.600	311.7 *	31.970	153.5
24	32.120	193.3	31.975	154.7	32.100	178.7	32.250	228.8	32.560	307.5	32.140	192.2 *
25	32.180	201.5 *	31.940	147.3	32.160	202.8	32.375	259.7	32.450	254.6	32.080	178.7 *
26	32.100	186.4	31.880	137.0 *	32.250	218.3 *	32.375	249.8 *	32.440	250.9	32.100	183.1 *
27	32.245	196.1	32.015	172.4	32.065	175.8	32.175	197.9	32.550	291.8	32.150	194.5 *
28	32.050	188.8	31.960	152.2	31.965	164.6	32.320	257.6	32.295	214.9	32.150	194.5 *
29	32.100	228.5	32.000	168.4			32.360	245.9 *	32.360	246.4	32.110	199.1
30	32.285	217.2	32.075	177.6 *			32.600	245.9 *	32.170	199.2 *	32.175	202.2
31	32.240	217.2	31.950	151.0			32.600	245.9 *			32.140	189.7
Ten-Daily Mea												
I Ten-Daily	32.140	194.7	32.213	213.3	31.940	148.8	32.198	205.5	32.323	240.0	32.291	228.7
II Ten-Daily	32.198	208.9	32.011	165.0	32.054	169.9	32.340	248.7	32.368	253.1	32.039	174.5
III Ten-Daily	32.154	199.7	32.008	163.1	32.104	186.5	32.376	249.3	32.389	251.6	32.105	185.6
Monthly												
Min.	32.040	171.2	31.830	127.5	31.750	113.7	31.845	117.7	32.170	198.0	31.900	140.6
Max.	32.400	256.3	32.460	270.1	32.350	243.3	32.600	290.5	32.600	311.7	32.600	315.1
Mean	32.164	201.1	32.077	179.9	32.027	167.1	32.307	235	32.360	248.2	32.144	195.9

Peak Computed Discharge = 4638 cumecs on 13-07-2016 Corres. Water Level :38.9 m

Lowest Computed Discharge = 92.56 cumecs on 05-06-2016 Corres. Water Level :31.63 m

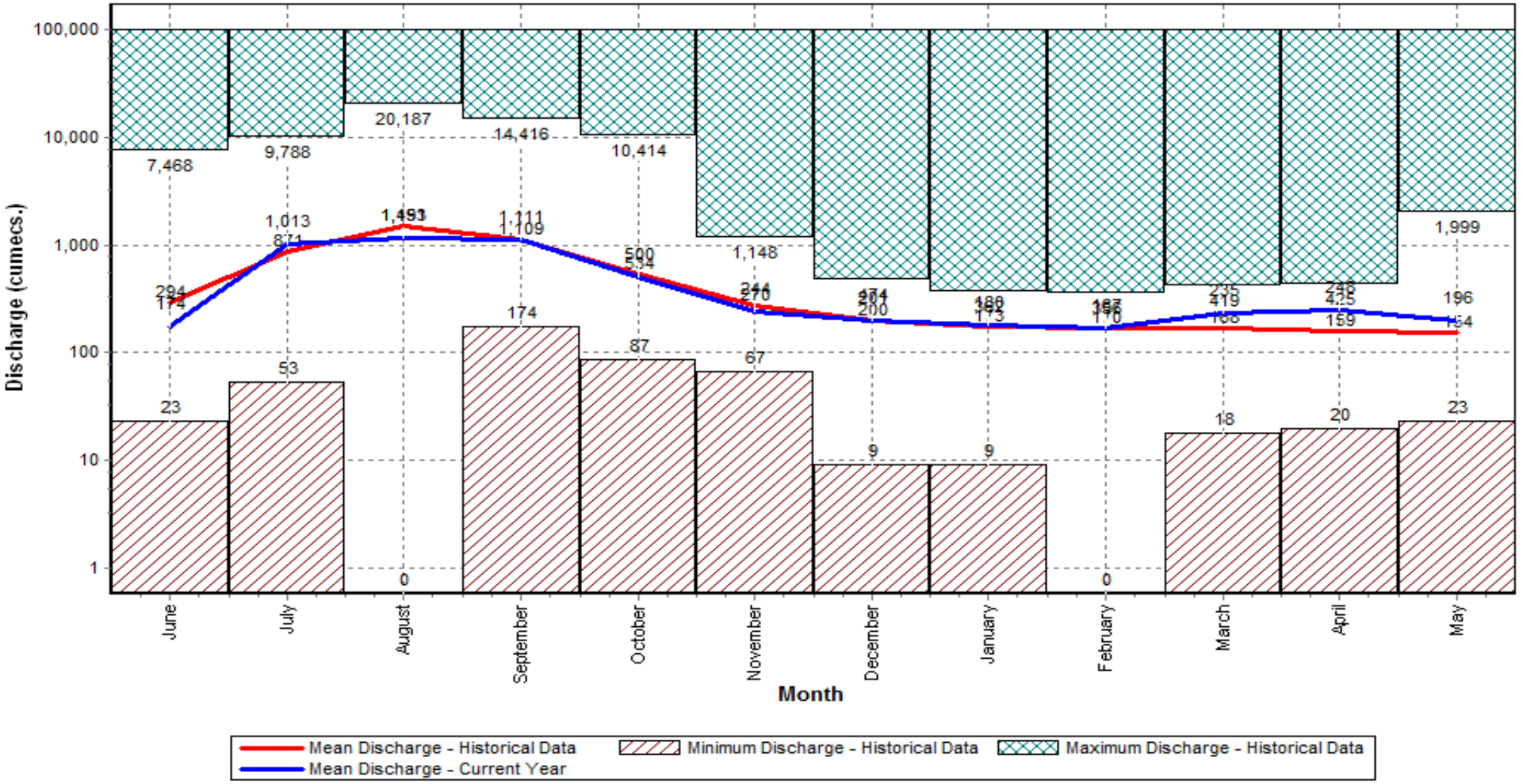
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Konta (AGC00C5) | **Data considered : 1966-2017** | **Division : Lower Godavari Div., Hyderabad**

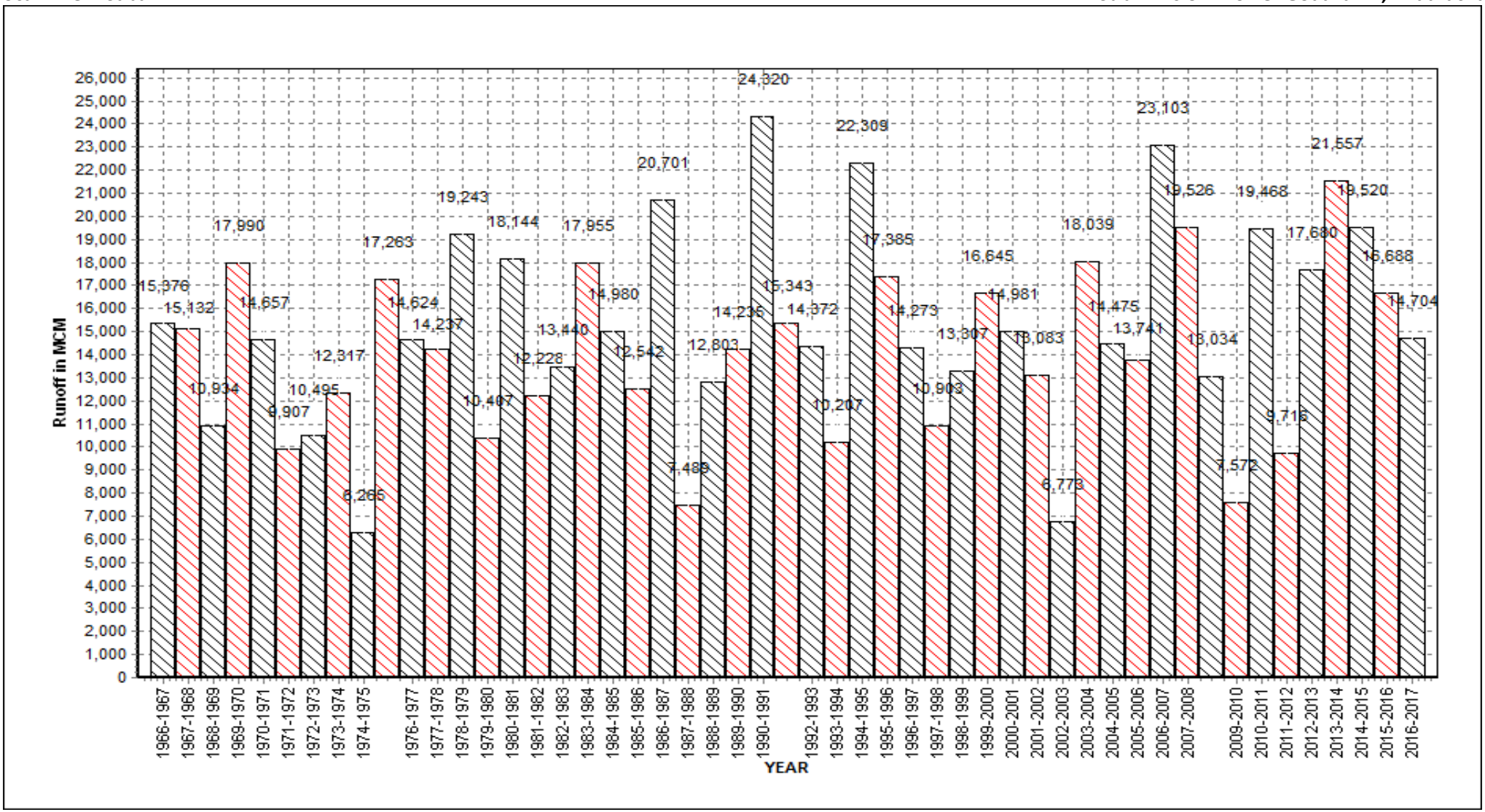
Local River : Sabari | **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 1966 - 2017

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Note: Missing values have not been considered while arriving at Annual Runoff

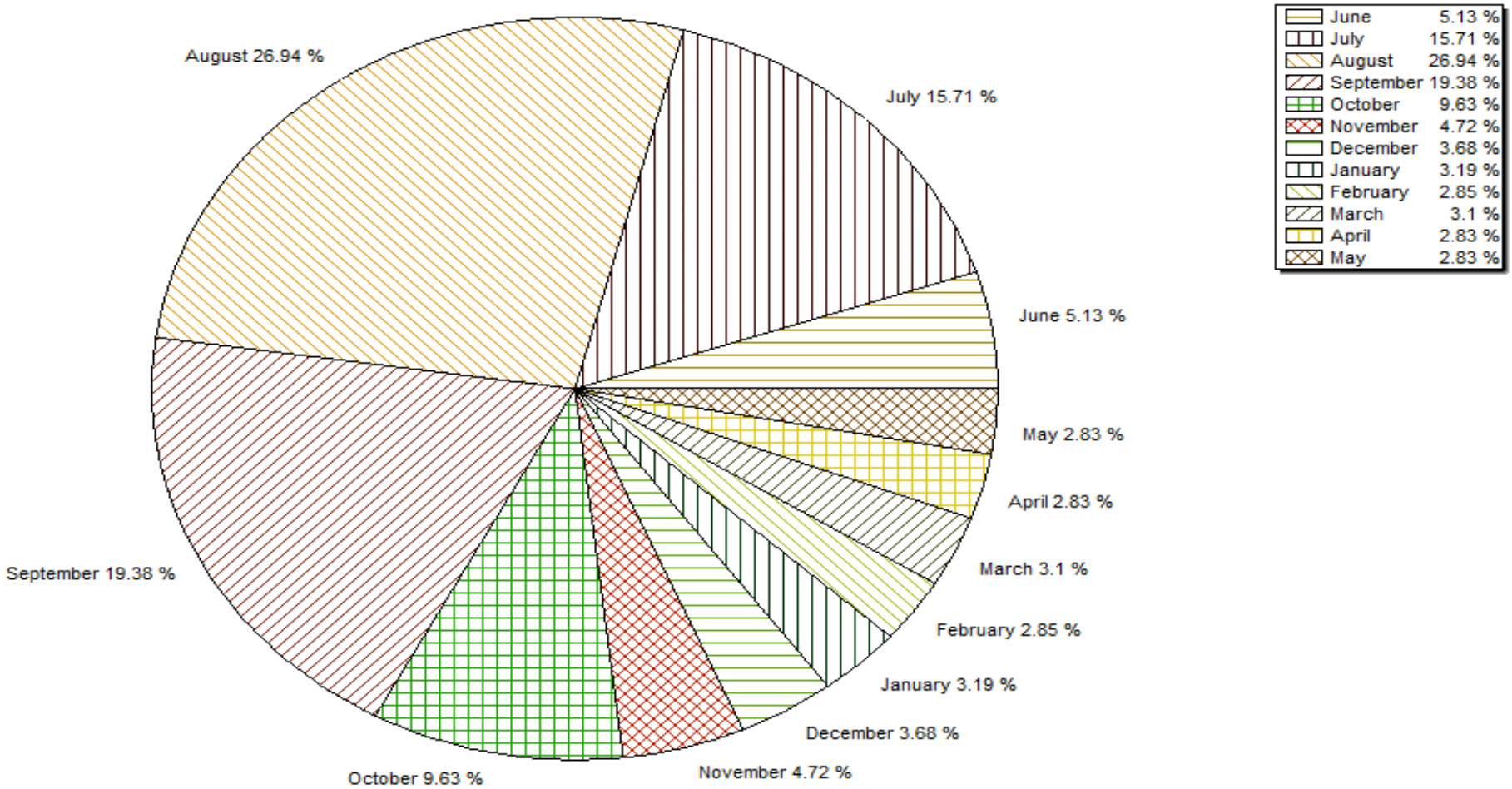
Monthly Average Runoff based on period : 1966-2016

Station Name : Konta (AGC00C5)

Local River : Sabari

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 1, Bhadrachalam



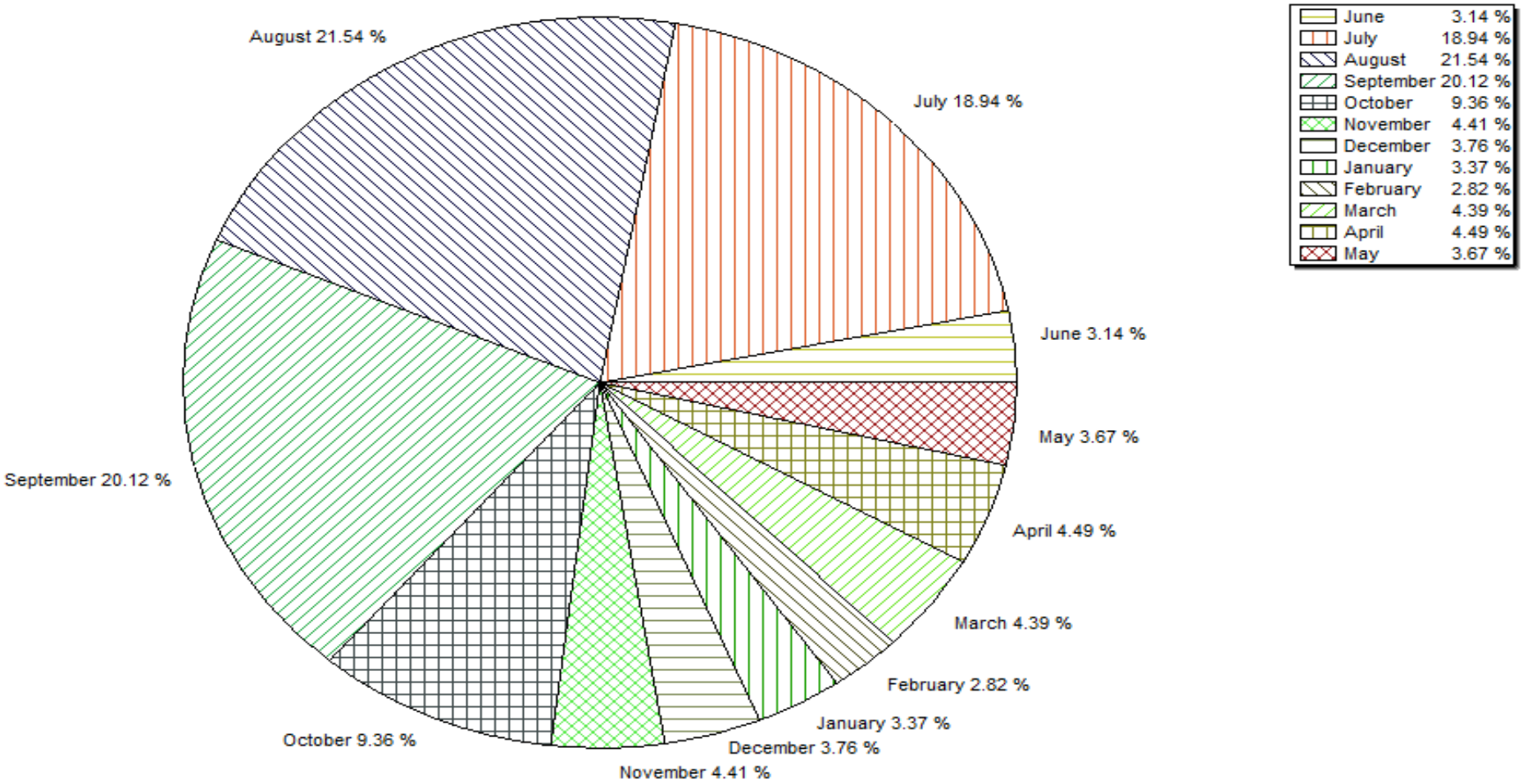
Monthly Runoff for the Year : 2016-2017

Station Name : Konta (AGC00C5)

Local River : Sabari

Division : Lower Godavari Div., Hyderabad

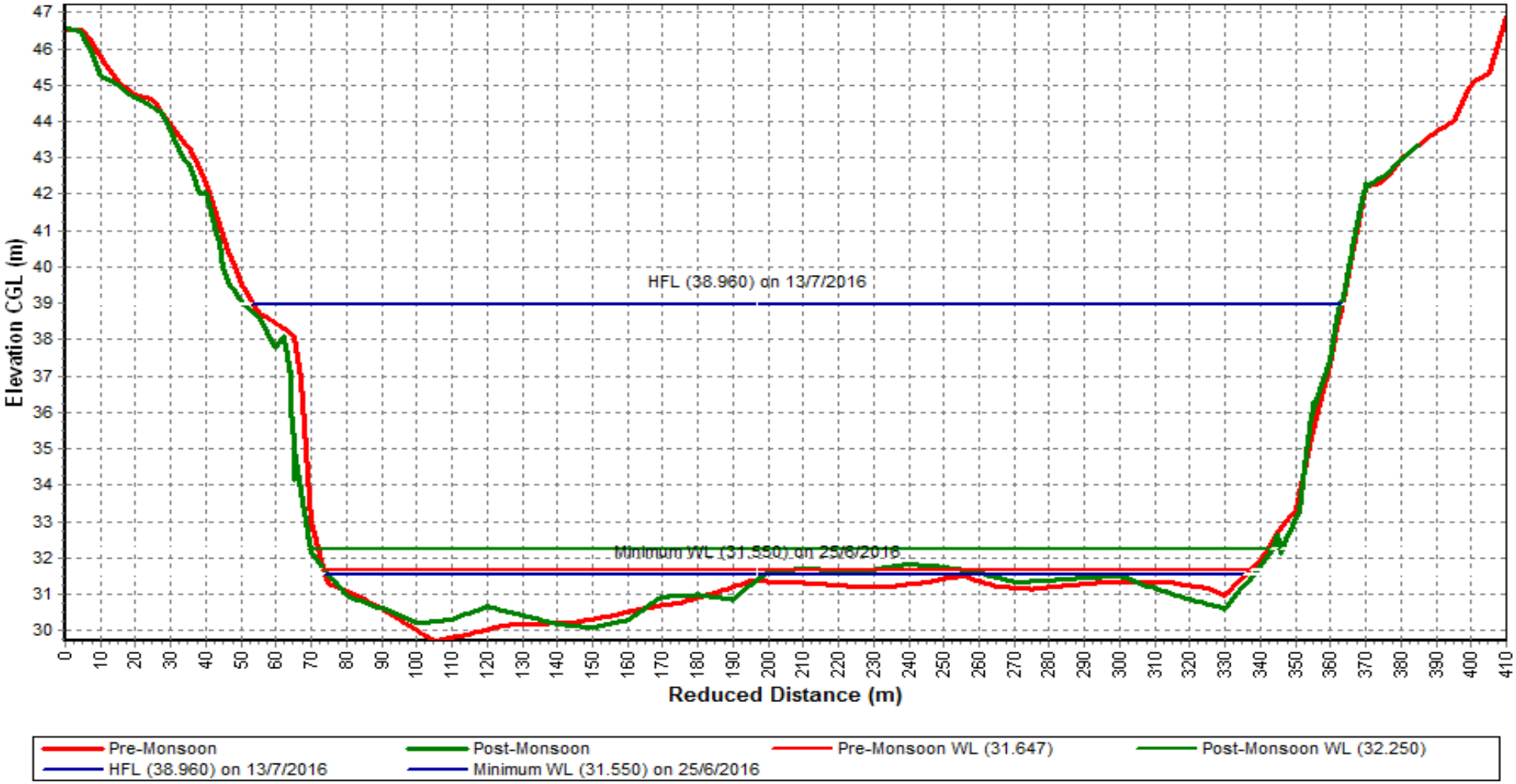
Sub-Division : Lower Godavari 1, Bhadrachalam



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

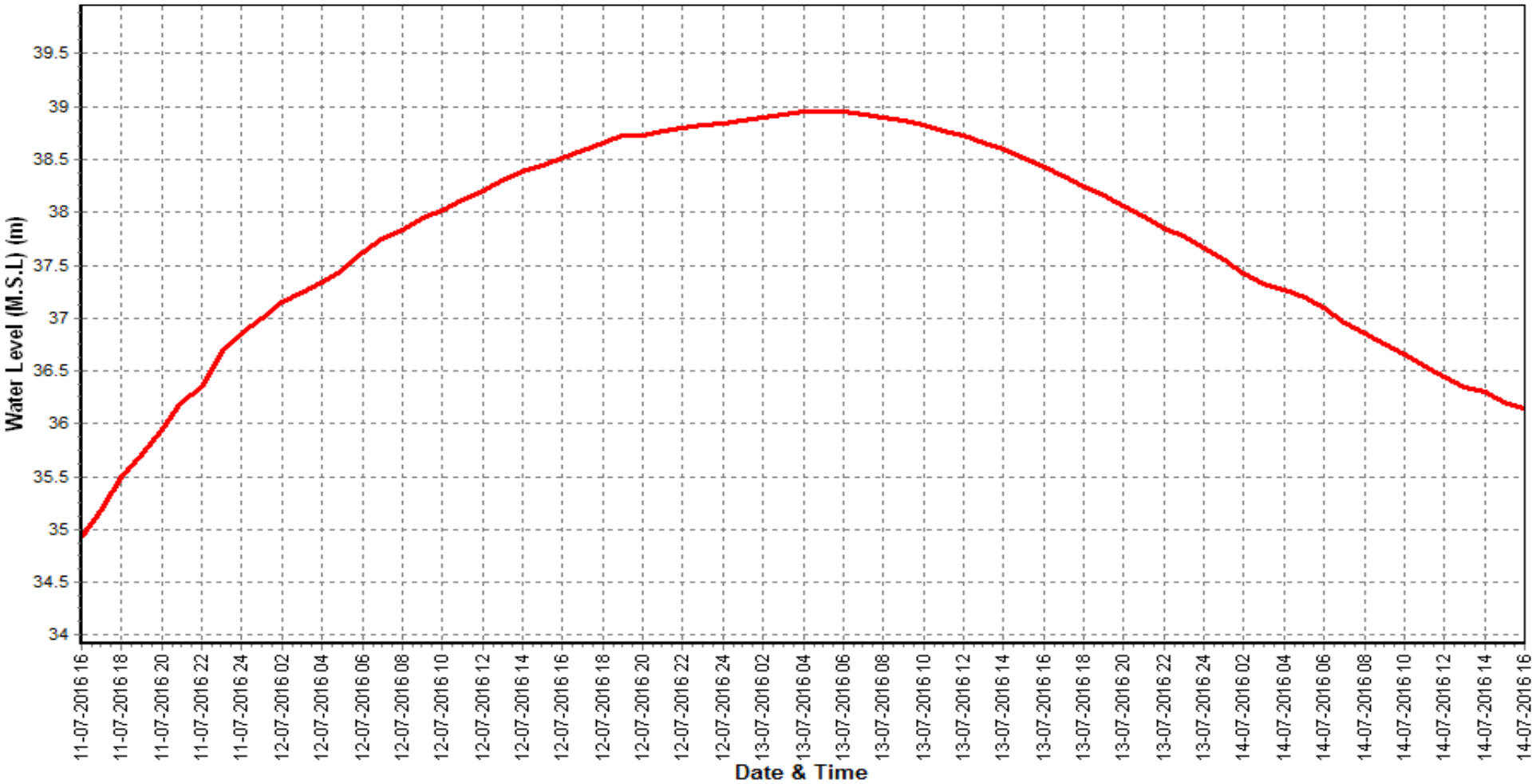
Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

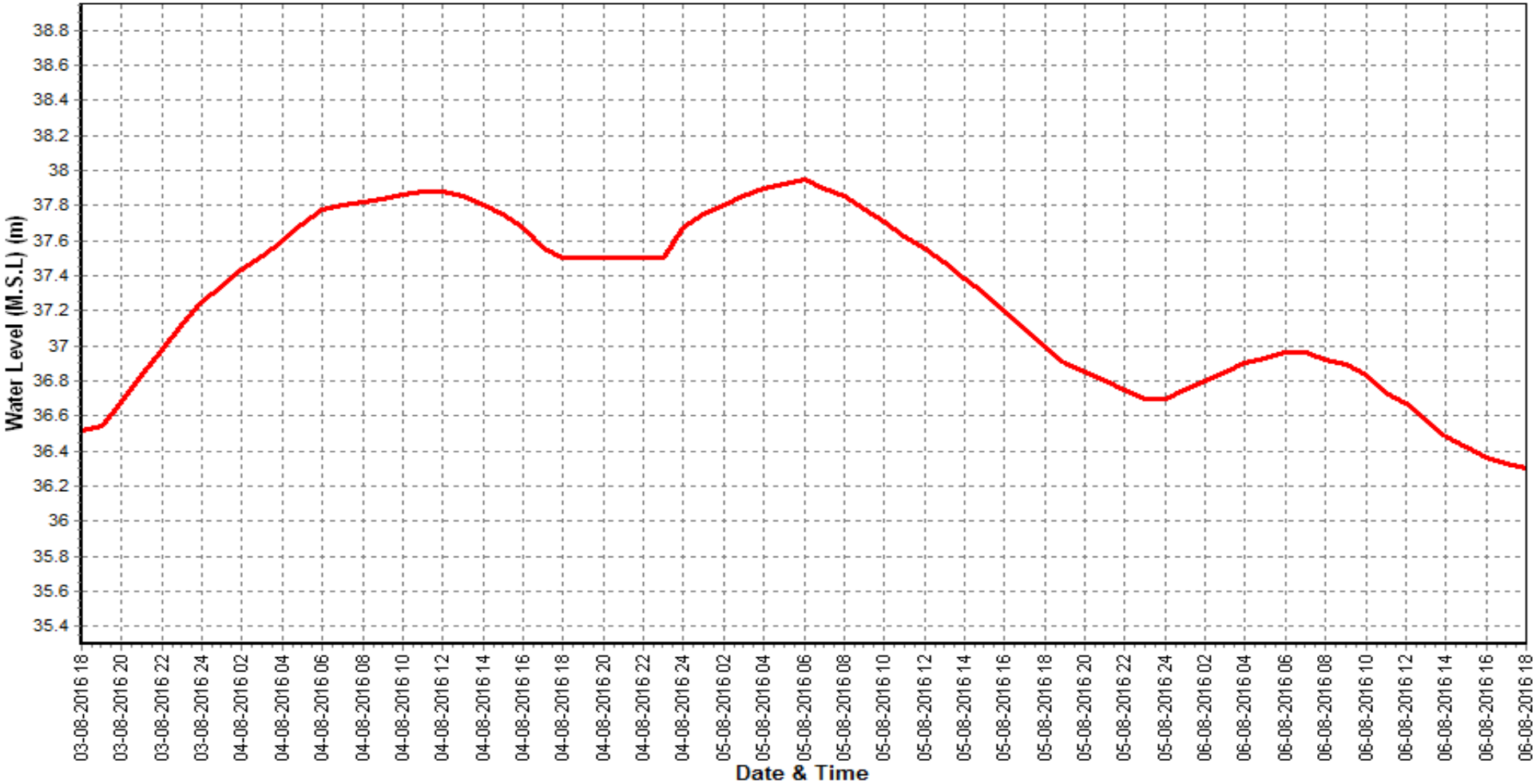


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**

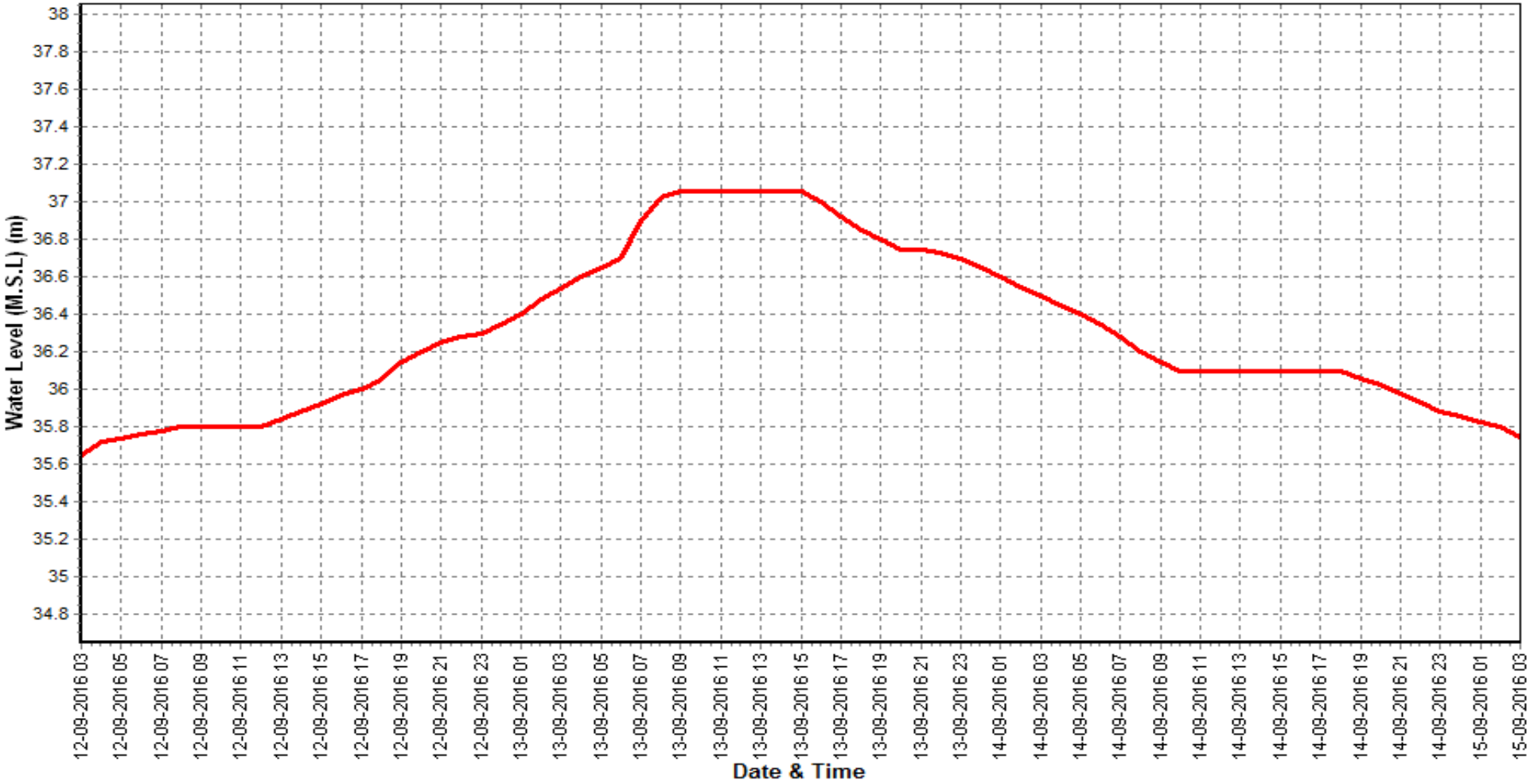


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Konta (AGC00C5) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Potteru (Seasonal)**	**Code**	**:**	**AGC20H2**
State	:	Orissa	District		Malkangiri
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Sabari	Sub Tributary	:	Potteruvagu
Sub-Sub Tributary	:	-	Local River	:	Potteru vagu
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 2, Rajahmundry
Drainage Area	:	1120 Sq. Km.	Bank	:	Right
Latitude	:	18°11'13"	Longitude	:	81°47'40"
Zero of Gauge (m)	:	120.5 (m.s.l)	26.03.1989		
		Opening Date	Closing Date		
Gauge	:	26.03.1989	**HFL During 2016-17**	**:**	**126.38**
			Corres.Discharge	**:**	**512.968 Cumecs(Estimated)**
Discharge	:	20.05.1997	**Date& Time of Occurance**	**:**	**13.09.2016 02:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1997-1998	542.8	125.460	28.08.1997	0.013	121.480	02.06.1997
1998-1999	211.7	123.560	06.10.1998	8.689	121.720	26.05.1999
1999-2000	793.3	126.250	18.06.1999	7.220	121.700	26.04.2000
2000-2001	217.9	123.615	13.07.2000	6.003	123.055	19.02.2001
2001-2002	439.5	126.180	18.08.2001	5.137	123.015	11.05.2002
2002-2003	305.0	125.325	09.08.2002	0.964	122.915	27.05.2003
2003-2004	1657	129.150	06.08.2003	3.860	122.820	07.06.2003
2004-2005	941.4	127.600	04.08.2004	11.52	123.140	22.03.2005
2005-2006	638.6	126.850	20.09.2005	6.819	123.070	19.07.2005
2006-2007	3331	131.990	04.08.2006	7.144	122.970	10.07.2006
2007-2008	1087	128.100	07.10.2007	26.45	123.360	14.07.2007
2008-2009	783.3	127.540	10.08.2008	6.313	122.900	27.03.2009
2009-2010	289.1	125.400	31.08.2009	4.100	123.030	16.11.2009
2010-2011	1024	128.140	25.07.2010	9.639	123.150	30.10.2010
2011-2012	308.1	125.420	01.09.2011	1.812	123.045	25.11.2011
2012-2013	512.1	126.520	21.09.2012	3.000	122.820	02.06.2012
2013-2014	389.0	125.980	06.08.2013	27.04	123.380	19.10.2013
2014-2015	893.8	128.200	13.10.2014	9.955	123.100	07.10.2014
2015-2016	994.6	127.800	20.06.2015	4.860	123.140	09.11.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	124.450	144.5 *	124.520	161.7	123.420	22.50	123.740	59.28	123.710	54.96	123.900	75.91
2	123.470	30.79 *	124.160	115.9	124.700	182.5 *	123.715	60.21	123.770	58.95 *	123.705	45.95
3	123.770	58.95 *	124.340	128.9 *	124.520	154.9 *	124.530	146.0	123.670	47.29	123.365	23.99
4	123.770	58.95 *	124.125	105.9	124.960	225.4 *	123.540	36.76 *	123.200	10.92	123.405	25.91
5	124.500	151.9 *	123.945	77.05	124.535	150.3	124.310	124.7 *	123.180	10.60	123.360	24.59
6	124.490	150.4 *	124.440	143.1 *	124.230	92.24	123.740	58.54	123.245	12.82	123.670	48.83 *
7	124.380	134.5 *	124.700	182.5 *	123.810	63.19 *	123.350	23.64	124.105	80.31	123.445	31.36
8	124.160	104.7 *	124.450	144.5 *	124.155	100.1	123.940	76.06	123.940	77.70 *	123.580	39.00
9	123.490	32.92	123.910	74.26 *	123.655	57.00	123.635	51.46	123.750	56.87 *	123.480	35.07
10	123.405	28.18	123.620	44.04 *	123.815	70.51	124.110	98.29 *	124.195	107.9	123.550	38.74
11	123.660	47.86 *	124.105	98.98	124.285	121.8	124.600	167.0 *	124.080	94.53 *	123.550	38.74
12	123.890	71.99 *	123.900	74.17	124.590	153.4	125.670	358.5 *	123.790	61.06 *	123.900	73.12 *
13	123.715	68.11	123.905	77.89	124.730	187.3 *	125.450	326.6	123.655	42.90	123.410	25.99 *
14	123.965	83.04	124.060	98.67	125.260	278.9 *	125.010	235.2	123.300	13.92	123.660	47.86 *
15	123.905	76.08	124.720	185.7 *	124.810	200.3 *	124.640	170.9	123.370	15.51	123.485	34.55
16	123.760	66.71	123.675	46.19	124.305	114.0	124.395	138.7	123.180	10.58 *	123.385	24.05
17	123.745	60.19	123.760	57.91 *	124.295	114.2	123.815	68.11	123.120	8.474	123.445	29.51
18	123.455	29.77	123.435	22.61	124.783	202.7	123.980	82.39 *	123.090	6.269	123.530	35.23
19	123.660	47.86 *	123.810	62.05	124.300	131.4	123.885	70.36	123.415	28.13	123.425	28.63
20	123.625	50.07	124.155	112.8	124.525	148.8	124.230	108.3	123.130	8.599	123.770	58.95 *
21	123.485	32.43	123.545	27.88	124.740	188.9 *	124.930	208.6	123.695	43.70	123.630	41.35
22	123.680	58.20	123.810	65.71	123.300	14.22	124.710	178.5	123.160	9.082	123.580	36.88
23	123.683	41.92	123.545	27.90	123.245	13.04	123.795	67.95	123.170	10.02 *	123.680	54.52
24	123.600	46.94	124.040	89.60 *	123.825	70.54	123.825	62.20	123.180	11.24	123.710	52.91
25	123.860	71.45	123.695	57.64	123.485	33.19	123.860	68.64 *	123.160	9.931	123.610	39.38
26	123.870	69.75 *	123.515	28.12	123.705	55.73	123.500	35.55	123.130	8.411	123.645	41.45
27	123.585	39.98	123.320	20.55	124.830	206.6	123.570	41.09	123.470	32.65	123.690	50.80 *
28	123.660	48.62	123.530	27.18	124.400	137.3 *	123.805	65.91	123.430	29.58	123.570	38.49
29	123.630	46.37	123.720	63.62	123.615	47.07	123.690	57.16	123.470	31.57	123.530	34.14
30	124.365	123.4	123.230	14.48	124.450	143.0	123.710	55.39	123.310	18.68 *	123.545	34.29
31			123.210	12.29 *	124.255	121.0			123.970	81.18		
-Daily Mean												
Ten-Dai	123.989	89.58	124.221	117.8	124.180	111.9	123.861	73.50	123.676	51.83	123.546	38.93
Ten-Dai	123.738	60.17	123.952	83.70	124.588	165.3	124.567	172.6	123.413	29.00	123.556	39.66
Ten-Dai	123.742	57.91	123.560	39.54	123.986	93.69	123.939	84.09	123.377	26.00	123.619	42.42
Monthly												
Min.	123.405	28.18	123.210	12.29	123.245	13.04	123.350	23.64	123.090	6.269	123.360	23.99
Max.	124.500	151.9	124.720	185.7	125.260	278.9	125.670	358.5	124.195	107.9	123.900	75.91
Mean	123.823	69.22	123.900	79.03	124.243	122.6	124.123	110.1	123.485	35.3	123.574	40.34

Annual Runoff in MCM = 1204 Annual Runoff in mm = 1075

Peak Observed Discharge = 326.6 cumecs on 13-09-2016 Corres. Water Level :125.45 m

Lowest Observed Discharge = 6.269 cumecs on 18-10-2016 Corres. Water Level :123.09 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1												
2												
3												
4												
5												
6												
7												
8												
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11												
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17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
-Daily M												
Ten-Dail												
Ten-Dai												
Ten-Dai												
Monthly												
Min.												
Max.												
Mean												

Peak Computed Discharge = 358.5 cumecs on 12-09-2016 **Corres. Water Level :125.67 m**

Lowest Computed Discharge = 10.02 cumecs on 23-10-2016 **Corres. Water Level :123.17 m**

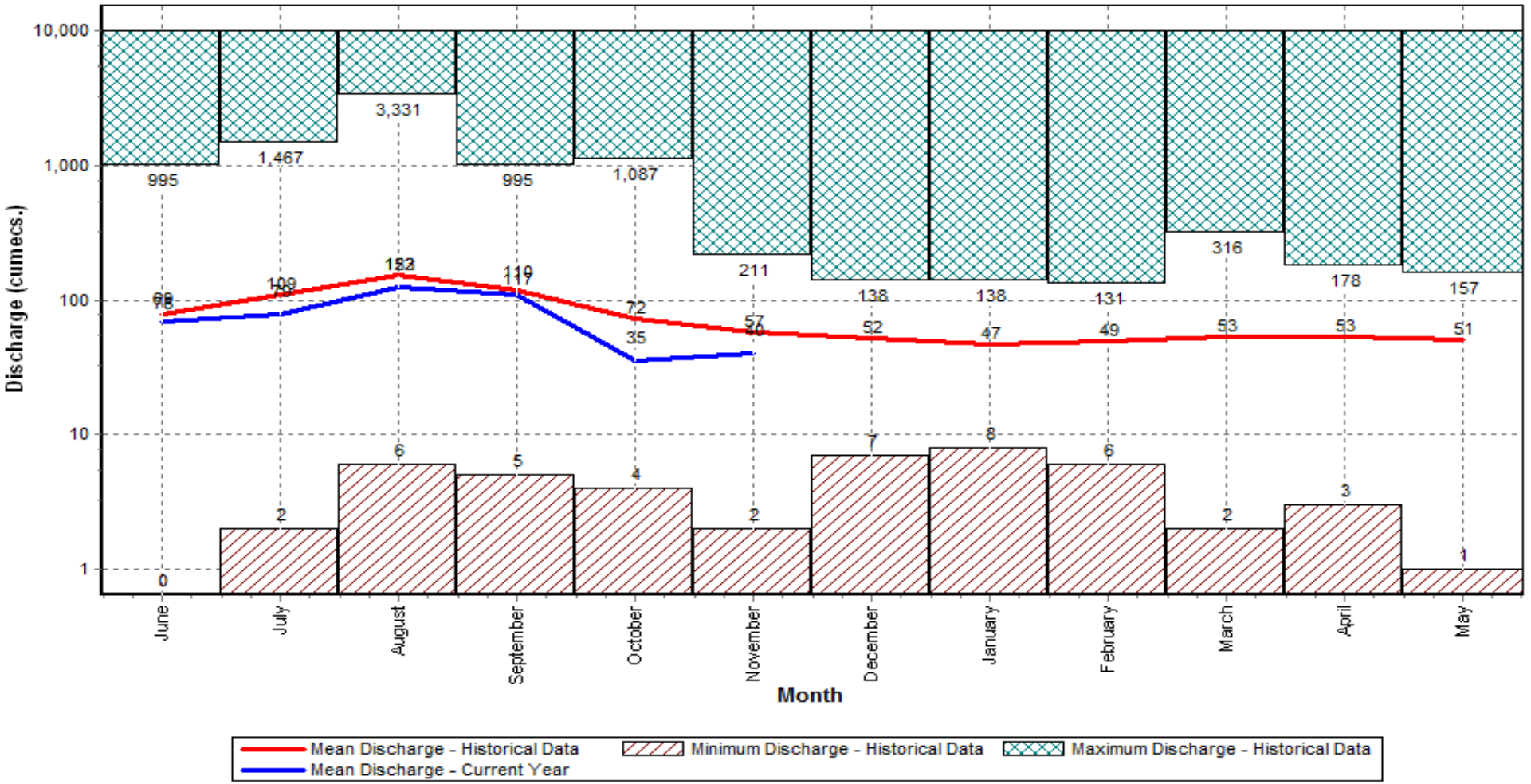
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Potteru (Seasonal) (AGC20H2) **Data considered : 1997-2017** **Division : Lower Godavari Div., Hyderabad**

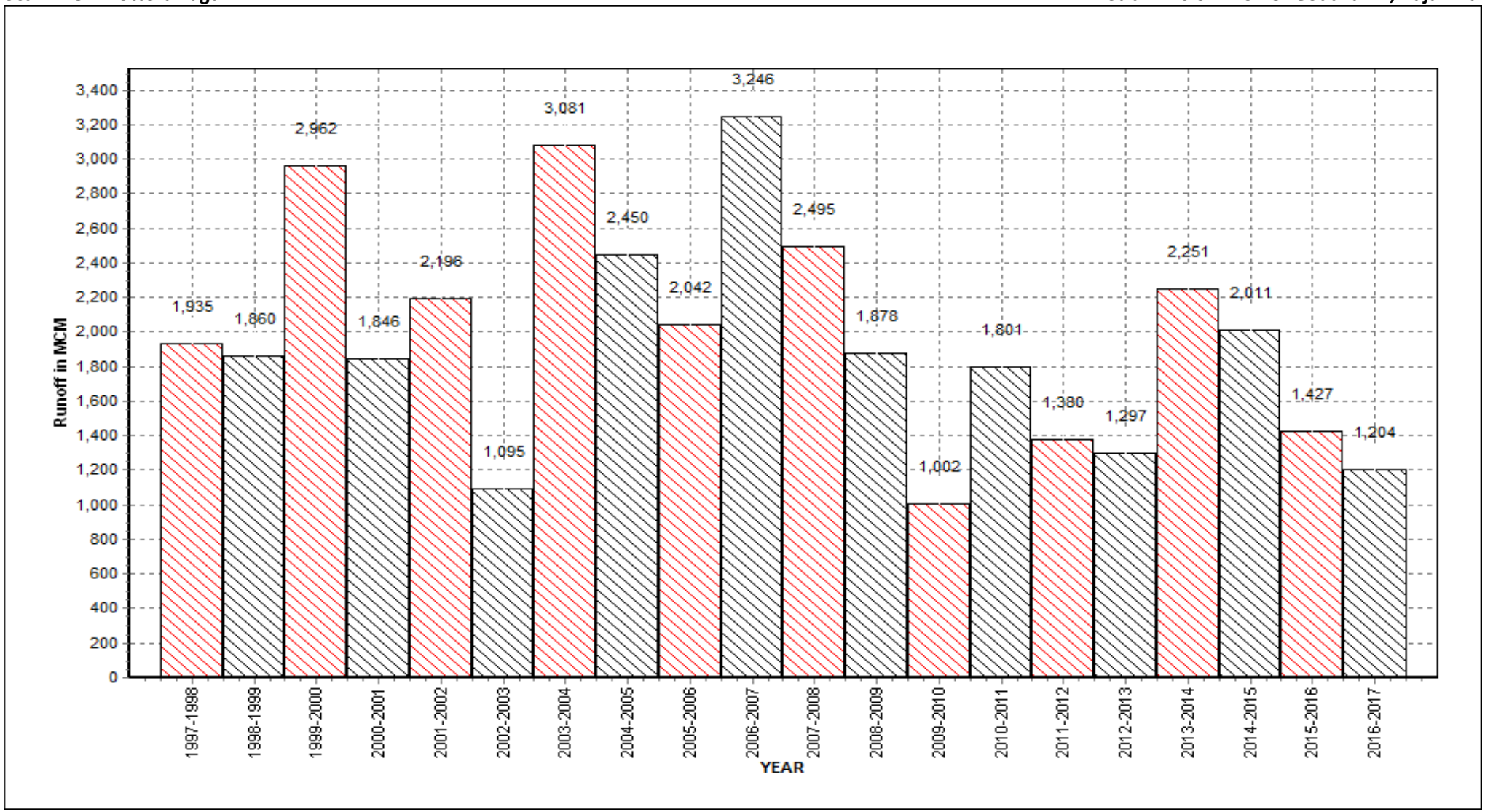
Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



Annual Runoff Values for the period: 1997 - 2017

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

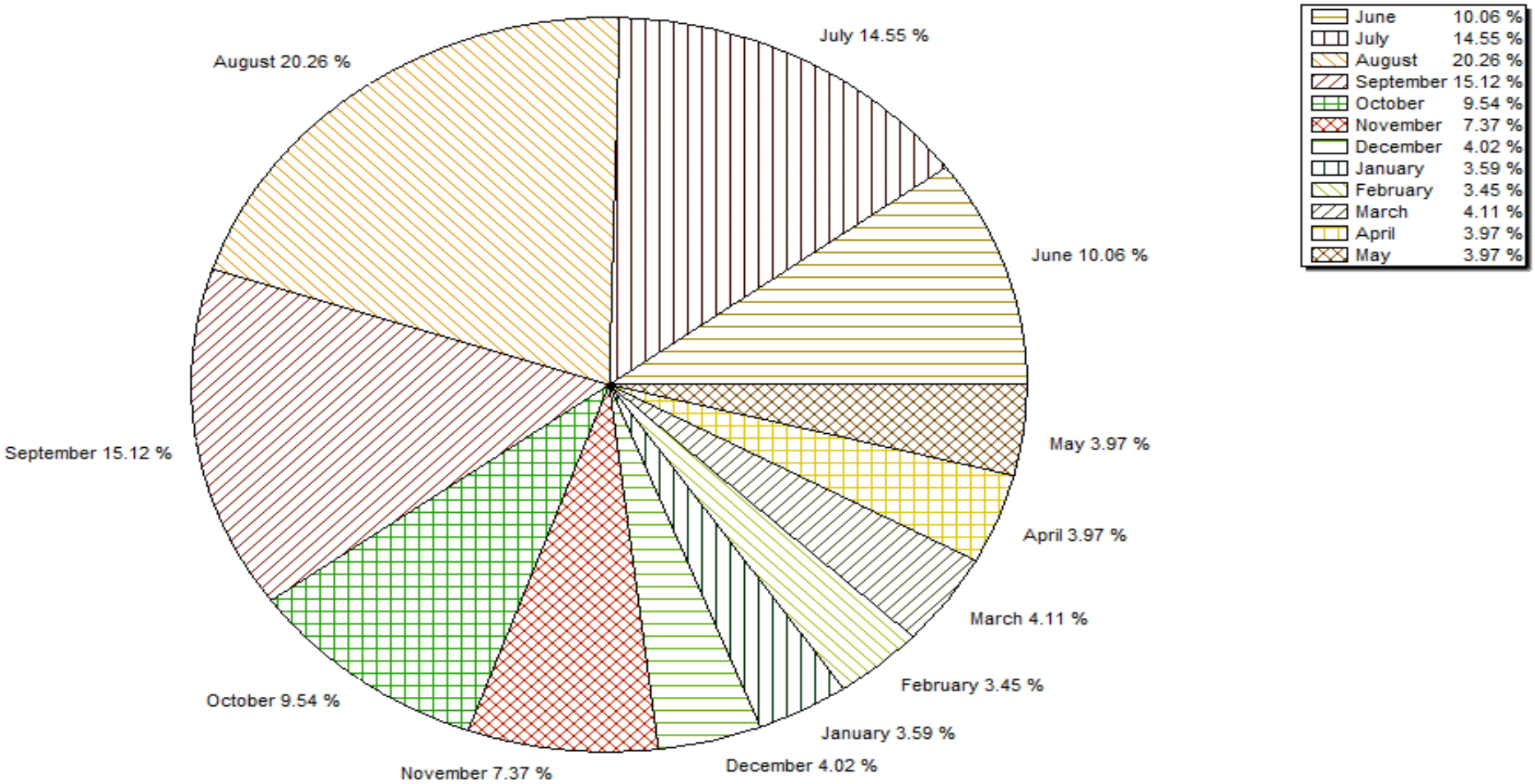


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1997-2016

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



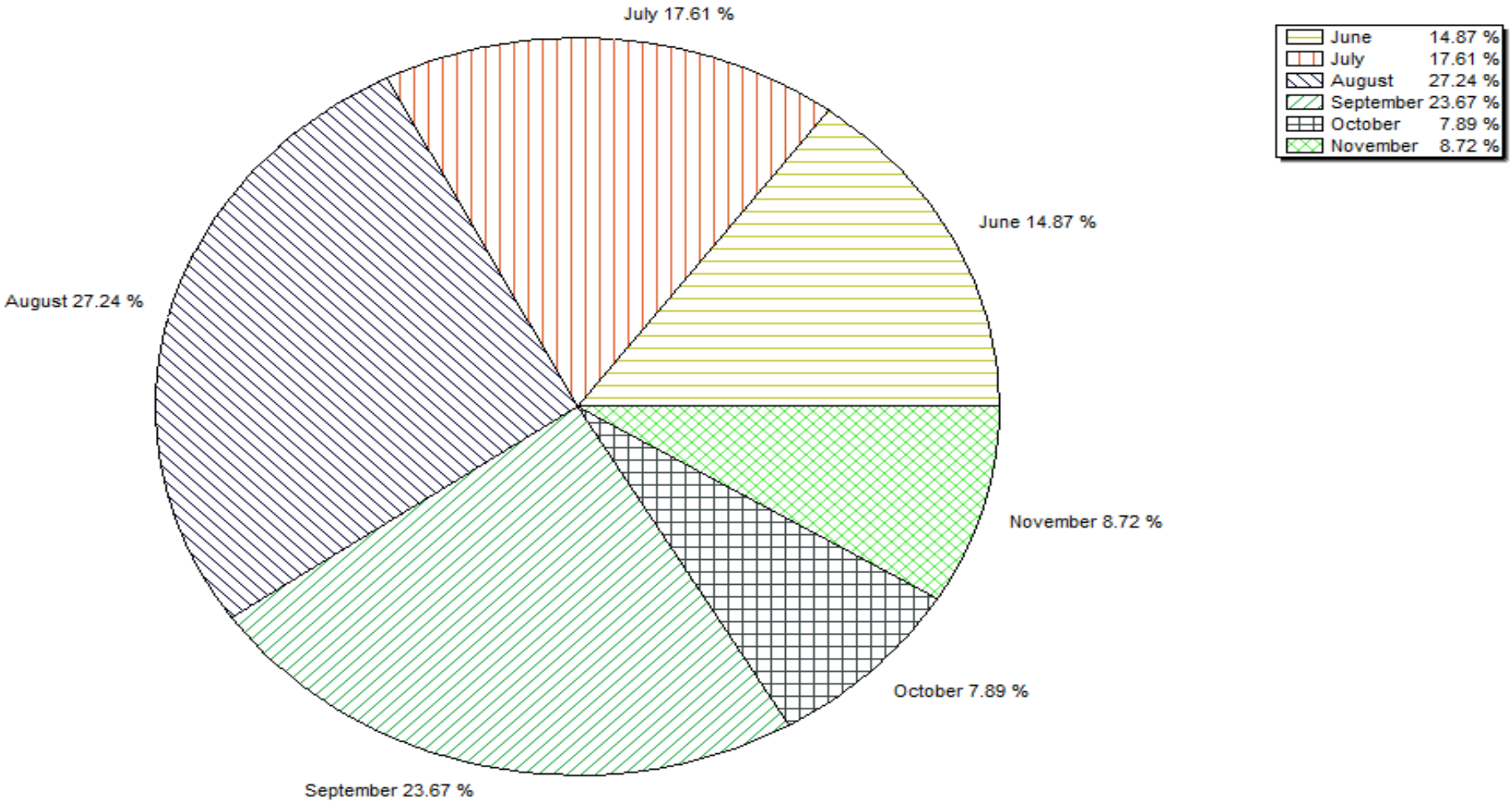
Monthly Runoff for the Year : 2016-2017

Station Name : Potteru (Seasonal) (AGC20H2)

Division : Lower Godavari Div., Hyderabad

Local River : Potteru vagu

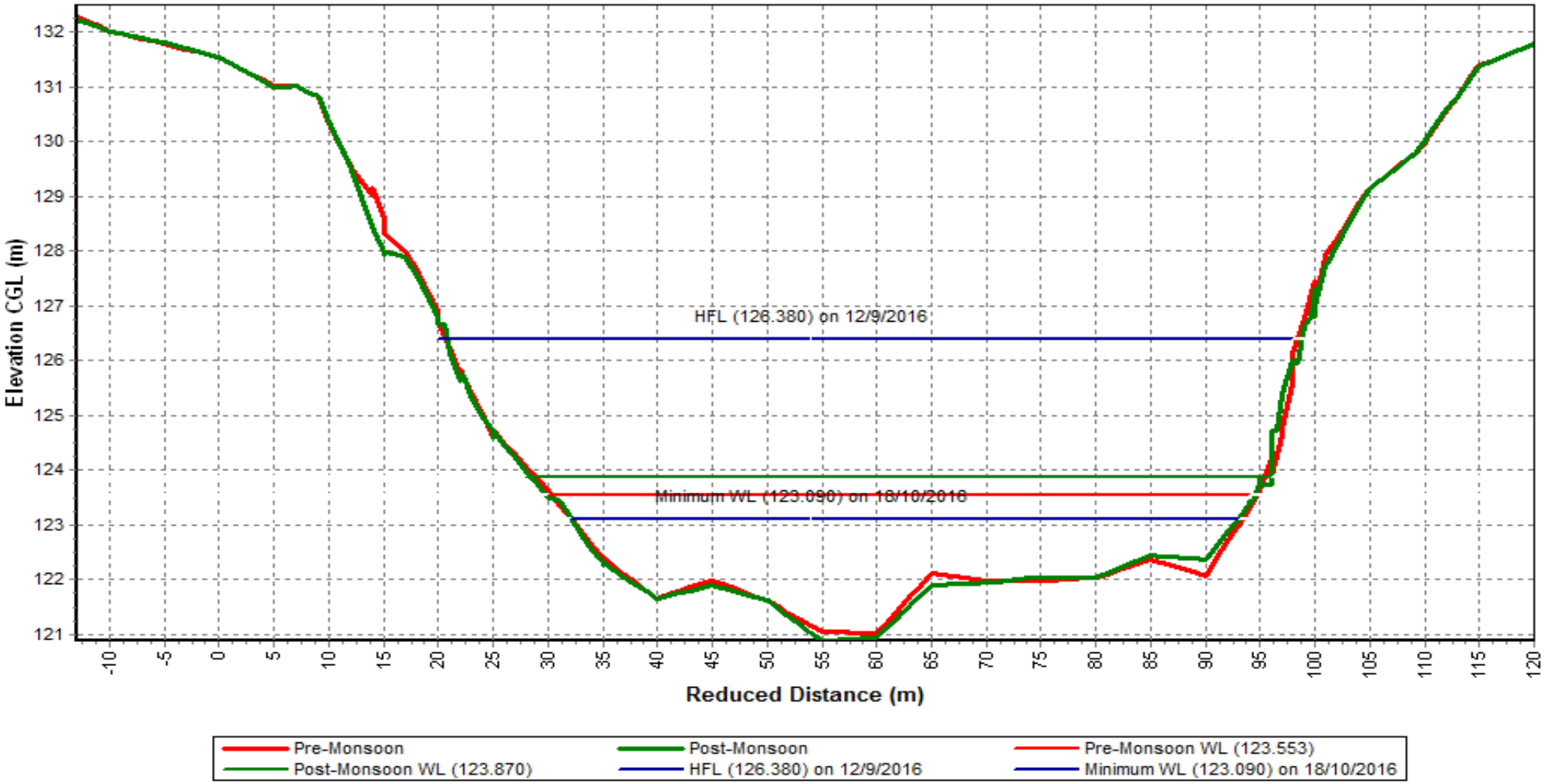
Sub-Division : Lower Godavari 2, Rajahmundry



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

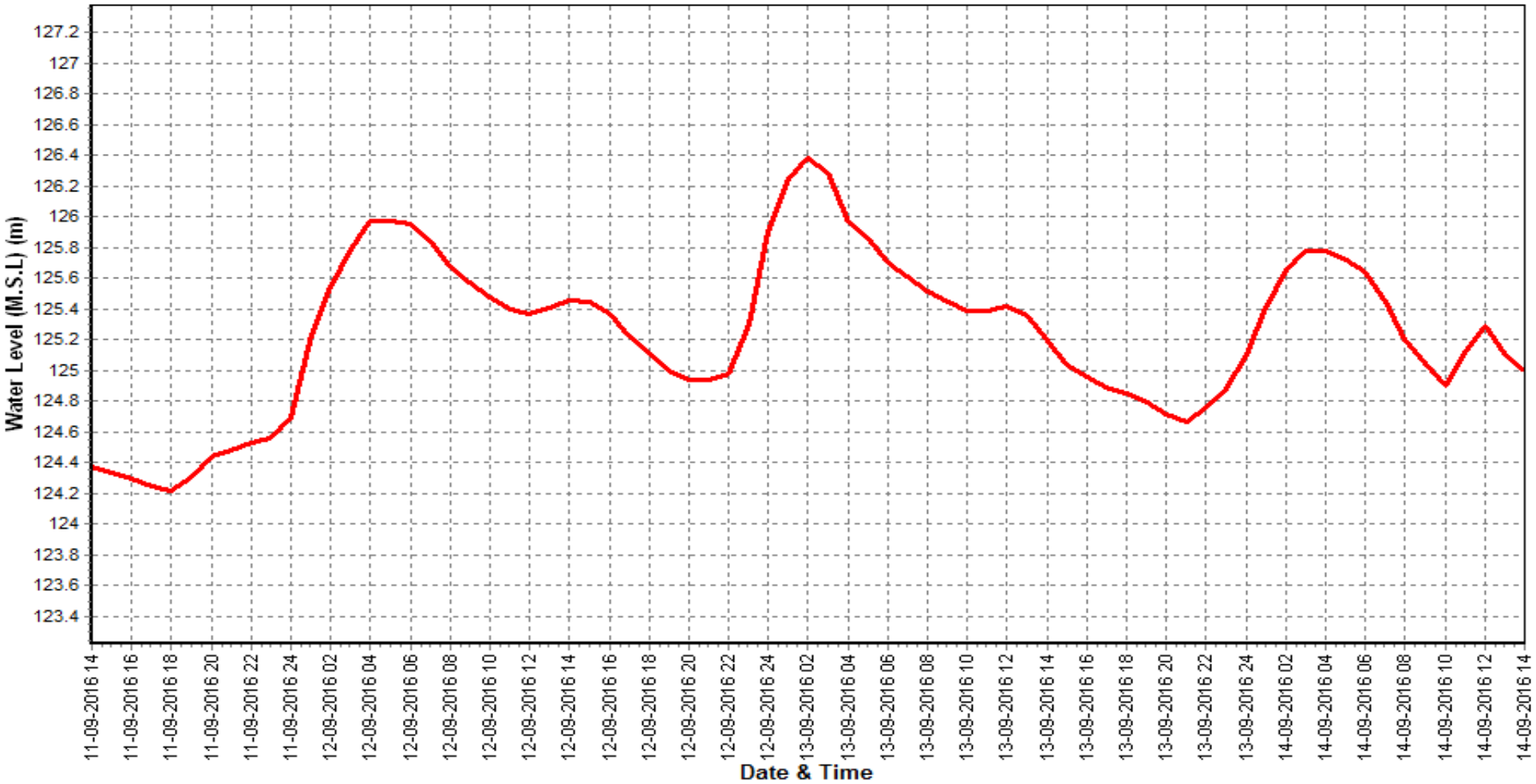
Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

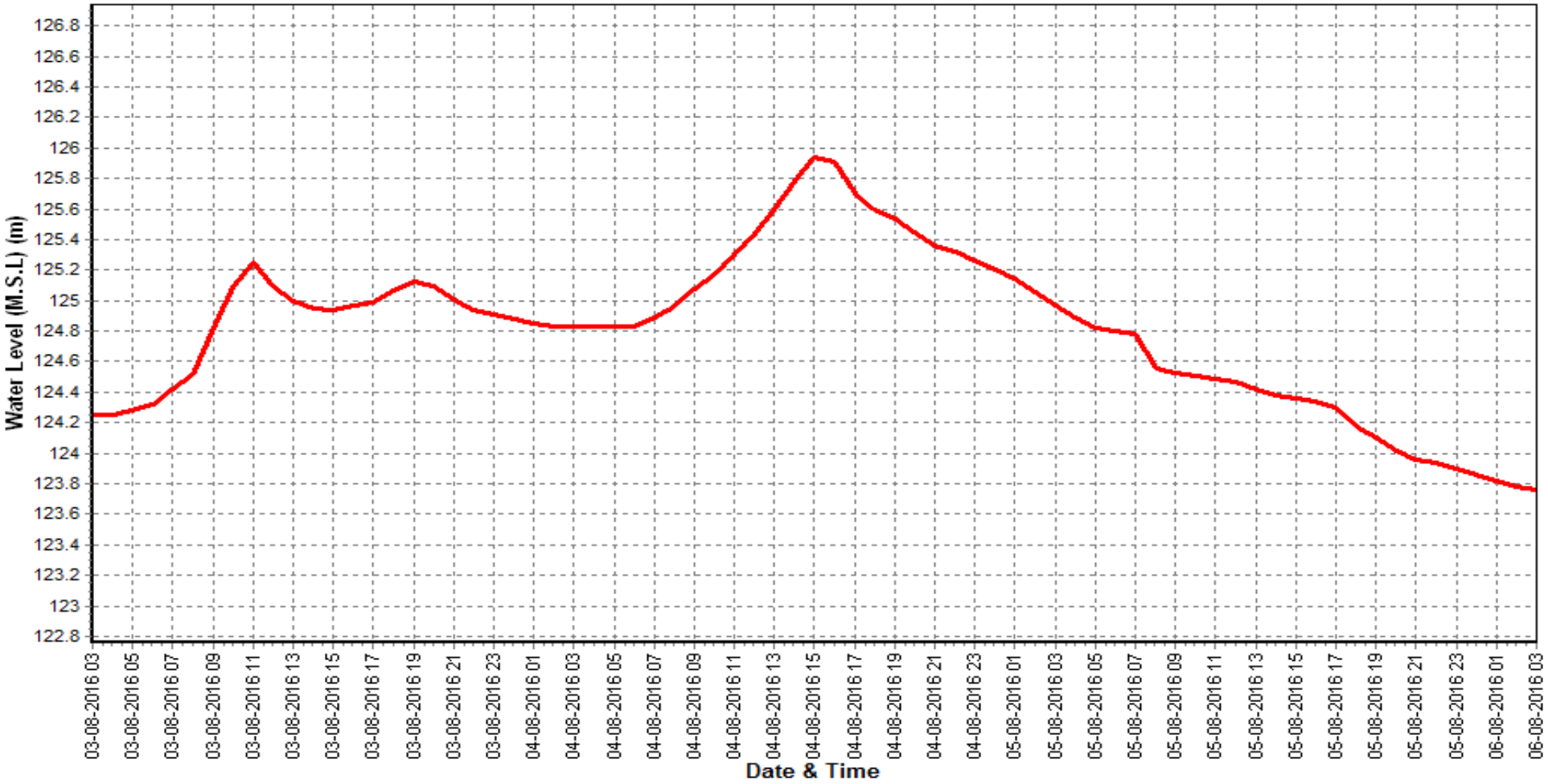


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**

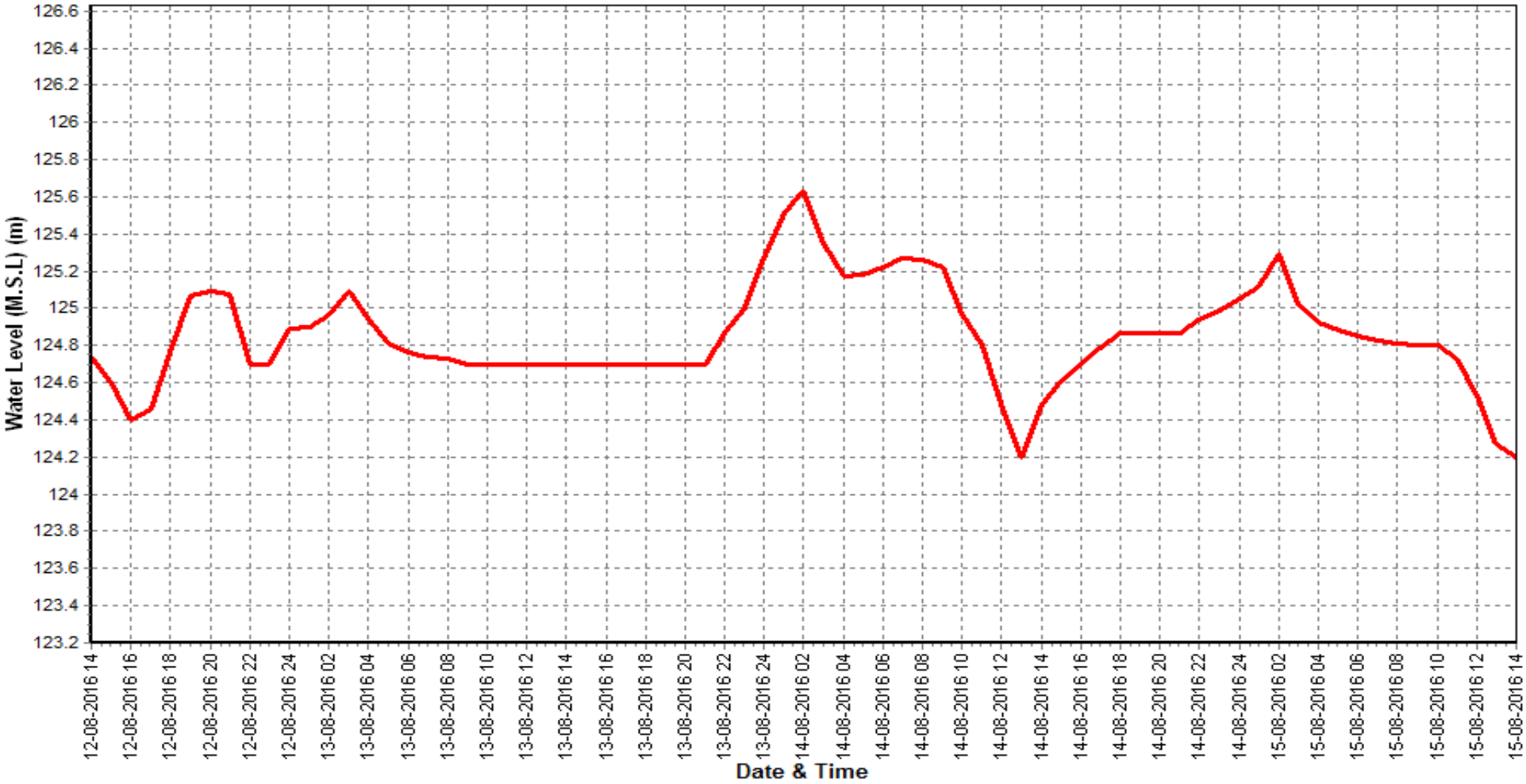


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Potteru (Seasonal) (AGC20H2) **Division : Lower Godavari Div., Hyderabad**

Local River : Potteru vagu **Sub-Division : Lower Godavari 2, Rajahmundry**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Saradaput**	**Code**	**:**	**AGC00N4**
State	:	Orissa	District		Malkangiri
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Sabari	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Sabari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 2, Rajahmundry
Drainage Area	:	3047 Sq. Km.	Bank	:	Left
Latitude	:	18°36'00"	Longitude	:	82°08'00"
Zero of Gauge (m)	:	88 (m.s.l)	11.01.1968	-	31.12.1969
		223.627 (m.s.l)	01.01.1970	-	31.05.1975
		223.972 (m.s.l)	01.06.1975	-	31.05.1997
		225.465 (m.s.l)	01.06.1997	-	20.08.1997
		224 (m.s.l)	21.08.1997		
		Opening Date	Closing Date		
Gauge	:	11.01.1968	**HFL During 2016-17**	**:**	**233.25**
			Corres.Discharge	**:**	**2010.037 Cumecs(Estimated)**
Discharge	:	05.09.1970	**Date& Time of**	**:**	**05.08.2016**
			Occurance	**:**	**11:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1970-1971	2324	232.377	28.08.1970	11.80	224.847	10.05.1971
1971-1972	1663	230.915	05.09.1971	8.093	224.757	28.05.1972
1972-1973	3116	233.377	06.07.1972	6.520	224.747	17.05.1973
1973-1974	2616	232.827	14.07.1973	6.032	224.737	12.05.1974
1974-1975	1118	229.127	10.08.1974	6.164	224.667	25.05.1975
1975-1976	2853	232.887	09.09.1975	7.908	225.122	08.05.1976
1976-1977	2209	233.092	21.07.1976	6.704	225.102	23.03.1977
1977-1978	4792	237.182	22.08.1977	5.133	225.067	09.06.1977
1978-1979	2819	234.532	16.08.1978	5.715	225.032	11.06.1978
1979-1980	2285	232.210	25.06.1979	5.700	225.017	27.05.1980
1980-1981	3281	234.552	24.07.1980	9.891	225.167	26.05.1981
1981-1982	2063	232.457	09.08.1981	9.733	225.152	11.05.1982
1982-1983	3617	234.477	28.08.1982	7.314	225.112	10.06.1982
1983-1984	3120	233.837	26.06.1983	8.500	225.107	10.06.1983
1984-1985	5134	237.372	02.08.1984	9.227	225.127	07.05.1985
1985-1986	1396	230.332	17.08.1985	7.997	225.192	25.05.1986
1986-1987	7052	236.692	14.08.1986	9.700	225.157	20.04.1987
1987-1988	897.6	229.612	05.09.1987	9.480	225.177	30.03.1988
1988-1989	1411	231.037	18.07.1988	15.35	225.342	01.06.1988

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1989-1990	1469	231.092	14.09.1989	17.19	225.312	30.01.1990
1990-1991	3153	234.112	05.10.1990	32.68	225.472	13.05.1991
1991-1992	1386	230.632	31.07.1991	25.75	225.412	26.05.1992
1992-1993	2846	234.072	15.08.1992	24.91	225.442	05.05.1993
1993-1994	1129	230.752	16.07.1993	15.60	225.242	26.04.1994
1994-1995	4570	237.147	05.09.1994	28.17	225.302	11.06.1994
1995-1996	2382	233.302	01.09.1995	31.25	225.422	29.04.1996
1996-1997	1815	232.472	21.07.1996	28.64	225.452	30.05.1997
1997-1998	879.7	231.175	22.08.1997	10.25	226.710	31.05.1998
1998-1999	1029	231.470	11.07.1998	9.934	226.690	06.03.1999
1999-2000	2593	234.350	18.06.1999	10.69	226.700	22.05.2000
2000-2001	1383	231.915	18.07.2000	9.069	226.650	31.03.2001
2001-2002	2012	233.400	08.07.2001	17.83	226.840	03.01.2002
2002-2003	1593	232.665	18.07.2002	7.157	226.690	09.01.2003
2003-2004	3187	234.850	08.10.2003	5.742	226.510	04.06.2003
2004-2005	3671	235.830	14.06.2004	25.43	226.830	12.01.2005
2005-2006	1766	232.870	13.09.2005	23.32	226.810	09.03.2006
2006-2007	6480	239.530	04.08.2006	29.90	226.920	06.03.2007
2007-2008	3046	234.950	07.10.2007	23.41	226.900	23.05.2008
2008-2009	1369	232.440	11.08.2008	19.47	226.800	14.02.2009
2009-2010	1013	231.335	21.07.2009	1.451	226.460	12.01.2010
2010-2011	2641	234.650	08.09.2010	15.28	226.750	09.06.2010
2011-2012	1615	233.060	02.09.2011	8.207	226.620	15.04.2012
2012-2013	2588	234.930	06.08.2012	10.77	226.580	08.06.2012
2013-2014	2849	235.200	14.06.2013	30.83	226.920	16.04.2014
2014-2015	1725	234.050	29.07.2014	22.35	226.850	04.04.2015
2015-2016	1768	234.550	16.09.2015	0.000	232.320	21.06.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	226.830	26.32 *	230.655	809.3	228.910	353.6	228.075	275.9	227.930	255.4	227.300	75.87
2	227.100	52.68	229.770	557.4	229.908	654.3	227.890	239.6	228.120	273.3 *	227.275	68.07
3	226.855	26.44	229.590	537.2 *	230.815	964.4	228.150	291.9	228.110	278.9	227.475	100.8
4	226.850	26.07	228.805	340.1	231.460	1182	229.100	486.0 *	227.947	243.0	227.260	69.44
5	226.960	36.75 *	228.453	267.9	232.220	1547	231.620	1232 *	227.660	201.0	227.300	75.19
6	227.050	44.70	228.860	347.2 *	232.270	1565	229.955	736.8	228.340	306.7	227.270	75.18 *
7	227.125	50.26	228.670	320.4	232.070	1445 *	228.880	443.9	229.350	539.5	227.280	73.33
8	227.390	92.38	228.340	249.1	231.060	988.6	228.320	307.7	228.980	457.4 *	227.270	66.39
9	227.450	98.45	228.645	300.2	230.003	612.2	228.080	260.6	228.980	457.4 *	227.210	63.43
10	227.015	41.01	229.310	459.9 *	229.245	436.9	229.160	500.5 *	228.885	429.8	227.645	111.5
11	226.980	38.49 *	231.370	1149 *	228.685	304.3	230.980	1018 *	228.860	429.5 *	227.170	58.81
12	227.120	51.68 *	230.540	827.8	228.355	226.8	229.870	702.2	228.480	345.9 *	227.190	58.81 *
13	227.065	45.16	229.515	479.0	228.470	261.0 *	230.800	960.2 *	228.015	245.5	227.280	58.83 *
14	227.105	49.92	228.895	347.2	228.400	246.7 *	229.400	577.2	227.690	200.0	227.230	58.82 *
15	226.863	25.92	228.405	241.5	228.710	312.7 *	228.850	432.0	227.450	169.2	227.310	75.04
16	226.875	27.59	228.490	266.8	228.860	351.4	228.440	368.3	227.310	136.0 *	227.320	76.24
17	226.845	24.36	228.420	250.8 *	228.920	367.7	229.185	427.0	227.180	119.3	227.060	41.10
18	226.995	36.33	228.225	211.7	228.840	344.2	228.740	402.3 *	227.120	112.4	227.110	51.21
19	226.900	31.74 *	228.250	215.4	228.390	249.2	229.040	402.3	227.060	107.5	227.060	41.49
20	226.870	26.80	228.760	319.1	228.093	180.7	228.660	397.5	227.240	133.5	227.080	41.50 *
21	226.830	24.76	229.140	415.6	228.050	195.9 *	228.860	417.8	227.030	101.1	227.040	39.74
22	226.913	33.48	229.065	374.3	227.980	207.9	228.575	374.3	227.020	97.53	227.070	41.57
23	226.920	34.69	229.660	491.6	228.075	149.7	228.140	297.7	227.000	93.86 *	227.045	40.88
24	226.980	36.09	228.930	363.8 *	227.740	144.2	228.065	268.8	226.950	90.20	227.070	41.88
25	227.120	55.90	228.795	312.0	227.730	199.5	228.360	320.9 *	227.360	85.08	227.255	69.31
26	228.120	193.2 *	228.550	262.0	228.045	618.8	227.925	236.9	226.910	81.88	227.165	53.88
27	228.223	224.1	228.105	209.2	229.990	628.9	227.645	192.1	226.830	72.44	227.070	53.86 *
28	228.190	202.8	228.068	197.1	229.900	449.7 *	227.540	174.2	226.870	76.66	227.050	42.97
29	230.475	776.0	227.975	190.0	229.388	299.6	227.640	192.7	226.870	75.13	227.030	37.56
30	229.640	470.9	227.895	177.3	228.640	305.4	227.595	188.2	226.870	78.05 *	227.060	43.64
31			228.430	252.8 *	228.635	305.4			226.915	83.15		
Ten-Daily Mean												
I Ten-Daily	227.063	49.51	229.110	418.9	230.796	974.8	228.923	477.5	228.430	344.2	227.329	77.92
II Ten-Daily	226.962	35.80	229.087	430.8	228.572	284.5	229.396	568.7	227.640	199.9	227.181	56.19
III Ten-Daily	227.941	205.2	228.601	295.1	228.561	318.6	228.035	266.4	226.966	85.01	227.086	46.53
Monthly												
Min.	226.830	24.36	227.895	177.3	227.730	144.2	227.540	174.2	226.830	72.44	227.030	37.56
Max.	230.475	776.0	231.370	1149	232.270	1565	231.620	1232	229.350	539.5	227.645	111.5
Mean	227.322	96.83	228.922	378.8	229.286	519.3	228.785	437.5	227.656	205.7	227.198	60.21

Annual Runoff in MCM = 4999 Annual Runoff in mm = 1641

Peak Observed Discharge = 1565 cumecs on 06-08-2016 Corres. Water Level :232.27 m

Lowest Observed Discharge = 7.717 cumecs on 06-01-2017 Corres. Water Level :226.65 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	226.670	51.22	226.860	22.86 *	226.860	24.32	226.850	23.24	227.020	34.07	227.035	44.81
2	226.600	38.24	226.890	28.32	226.890	26.81	226.850	23.62	227.030	35.76 *	227.015	36.31
3	226.730	58.22	226.850	23.06	226.910	28.60	226.830	21.41	226.960	29.31	227.130	44.42
4	226.580	58.19 *	226.860	24.20	226.910	28.46	226.850	22.93	226.875	20.19	227.045	33.34
5	226.575	35.46	226.820	16.92	226.880	24.30 *	226.920	27.25 *	226.880	24.30 *	227.295	72.70
6	226.570	34.21	226.650	7.717	226.880	27.30	226.955	32.85	226.880	22.19	227.130	43.60
7	226.575	36.04	226.800	14.14	226.880	27.05	226.850	24.91	227.080	40.34	227.150	45.64 *
8	226.480	28.24	226.810	19.34 *	226.890	27.41	227.020	40.48	226.980	31.83 *	227.220	59.61
9	226.460	27.65	226.805	18.62	226.900	27.95	226.950	33.69	227.040	36.56 *	227.125	43.36
10	226.460	27.65 *	226.800	17.54	226.890	27.74	227.050	32.38	227.020	33.53	227.125	43.53 *
11	226.450	27.65 *	226.650	10.34	226.900	25.77 *	227.050	37.37 *	227.020	34.09	227.120	48.98
12	226.430	27.65 *	226.660	9.774	226.900	25.77 *	227.100	41.45 *	226.930	25.06	227.020	34.55
13	226.410	23.02	226.830	19.74	226.900	28.09	227.160	47.98	226.990	28.90	226.980	31.83 *
14	226.410	22.62	226.830	20.73 *	226.900	26.10	227.080	38.27	226.920	27.25 *	227.280	56.95 *
15	226.410	22.26	226.820	20.04 *	226.870	23.32	226.995	29.20	227.050	36.76	227.120	49.07
16	226.410	22.58	226.820	19.99	226.870	23.58	227.000	31.59	227.030	35.76 *	227.000	29.40
17	226.380	20.00	226.830	19.89	226.860	23.54	227.020	31.28	227.050	35.80	227.070	46.38
18	226.380	20.00 *	226.820	19.60	226.890	26.59	226.950	28.51	227.070	39.21	227.053	28.70
19	226.380	18.45	226.830	19.88	226.850	22.14 *	227.010	34.17 *	227.030	34.66	227.050	38.95
20	226.380	19.11	226.830	19.67	226.880	25.90	227.010	30.70	227.135	48.93	227.000	36.79
21	226.380	19.30	226.830	19.89	226.865	23.83	226.990	29.59	227.100	51.61	227.000	33.39 *
22	226.405	22.51	226.830	20.73 *	226.955	36.05	226.950	24.37	227.075	40.26	227.270	70.49
23	226.370	17.59	226.830	19.89	226.840	23.88	227.025	31.09	227.100	41.45 *	226.990	36.76
24	226.370	18.50	226.845	20.79	226.860	25.76	227.130	43.53	227.045	35.63	227.230	61.59
25	226.380	18.50 *	226.820	18.62	226.840	24.48	227.130	43.70	227.040	34.99	227.130	53.94
26	226.380	18.88	226.850	22.14 *	226.850	22.14 *	227.280	56.95 *	226.980	29.85	227.333	83.67
27	226.370	18.46	226.880	25.10	226.850	23.44	227.110	40.32	227.020	34.32	227.145	55.02
28	226.370	18.22	226.880	25.02	226.850	23.12	227.015	32.08	227.055	39.42	227.300	58.74 *
29	226.485	30.02	226.860	22.86 *			226.960	30.28 *	227.070	39.86	227.290	70.78
30	226.460	27.96	226.840	20.78			227.010	34.17 *	227.130	43.95 *	227.360	83.32
31	226.469	27.92	226.850	21.30			227.020	34.97 *			227.240	61.73
Ten-Daily Mean												
I Ten-Daily	226.570	39.51	226.814	19.27	226.889	26.99	226.913	28.27	226.976	30.81	227.127	46.73
II Ten-Daily	226.404	22.33	226.792	17.96	226.882	25.08	227.038	35.05	227.023	34.64	227.069	40.16
III Ten-Daily	226.404	21.62	226.847	21.56	226.864	25.34	227.056	36.46	227.062	39.13	227.208	60.86
Monthly												
Min.	226.370	17.59	226.650	7.717	226.840	22.14	226.830	21.41	226.875	20.19	226.980	28.70
Max.	226.730	58.22	226.890	28.32	226.955	36.05	227.280	56.95	227.135	51.61	227.360	83.67
Mean	226.457	27.62	226.819	19.66	226.879	25.84	227.004	33.37	227.020	34.86	227.137	49.62

Peak Computed Discharge = 1445 cumecs on 07-08-2016 Corres. Water Level :232.07 m

Lowest Computed Discharge = 18.50 cumecs on 25-12-2016 Corres. Water Level :226.38 m

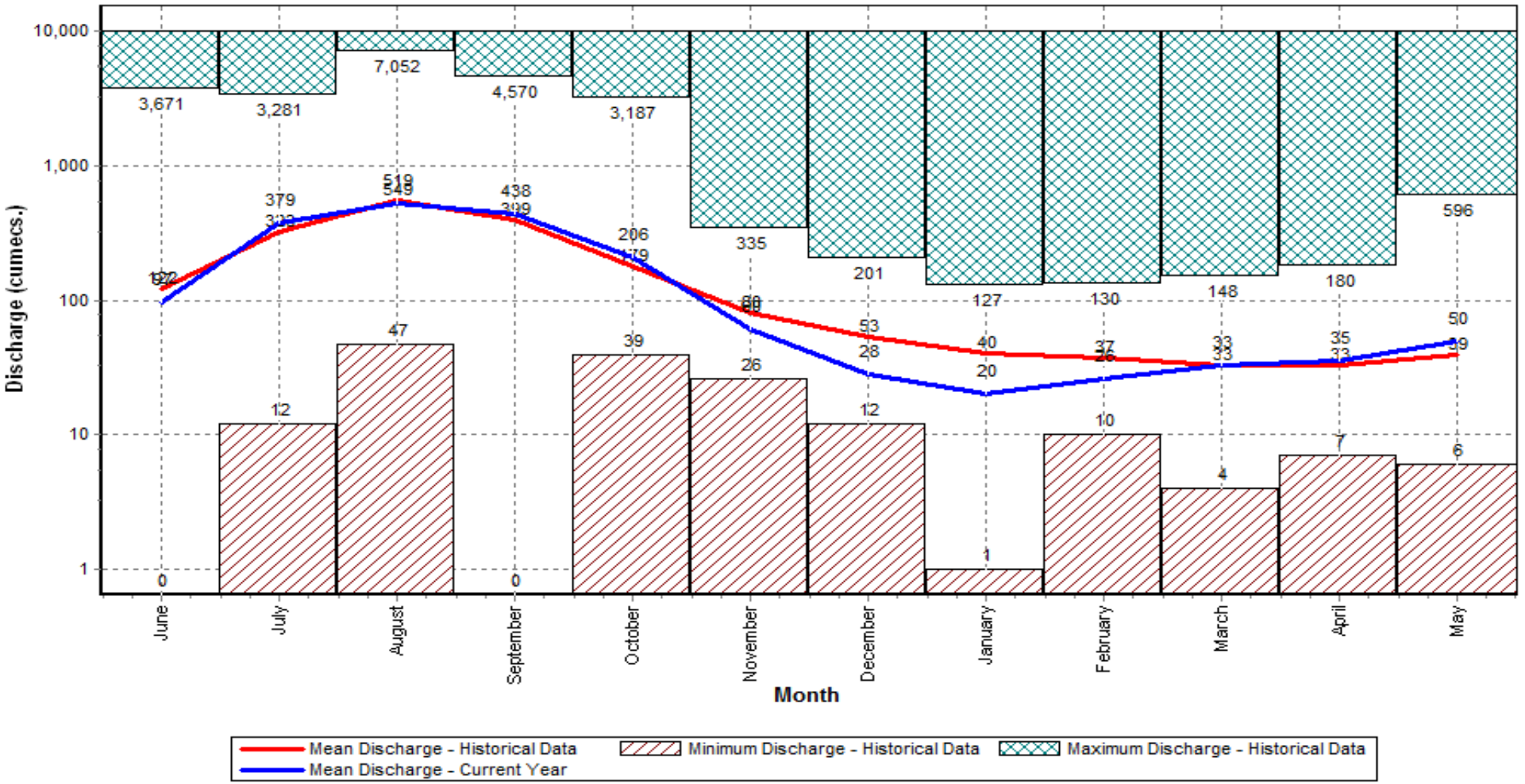
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Saradaput (AGC00N4) | **Data considered : 1970-2017** | **Division : Lower Godavari Div., Hyderabad**

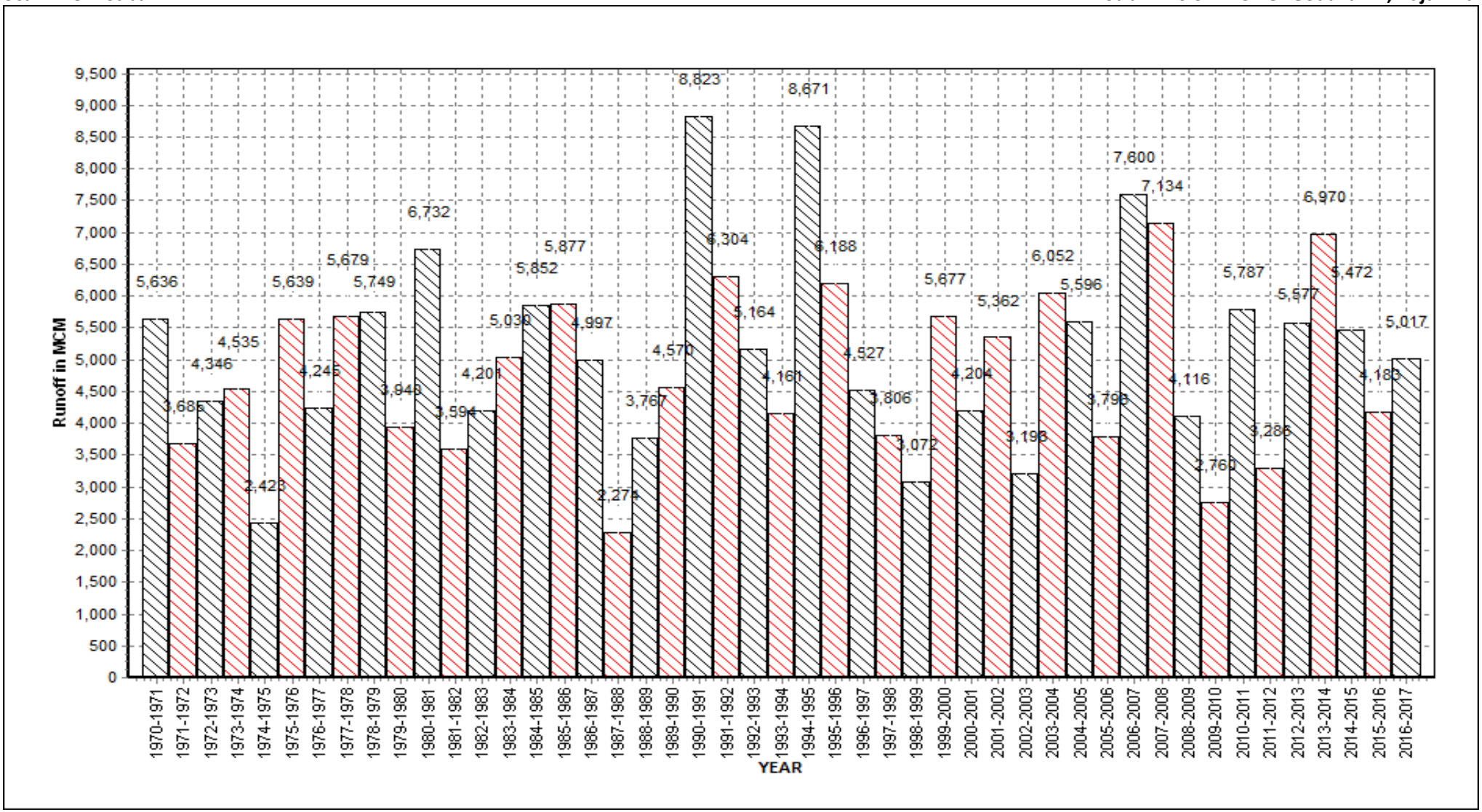
Local River : Sabari | **Sub-Division : Lower Godavari 2, Rajahmundry**



Annual Runoff Values for the period: 1970 - 2017

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**



Note: Missing values have not been considered while arriving at Annual Runoff

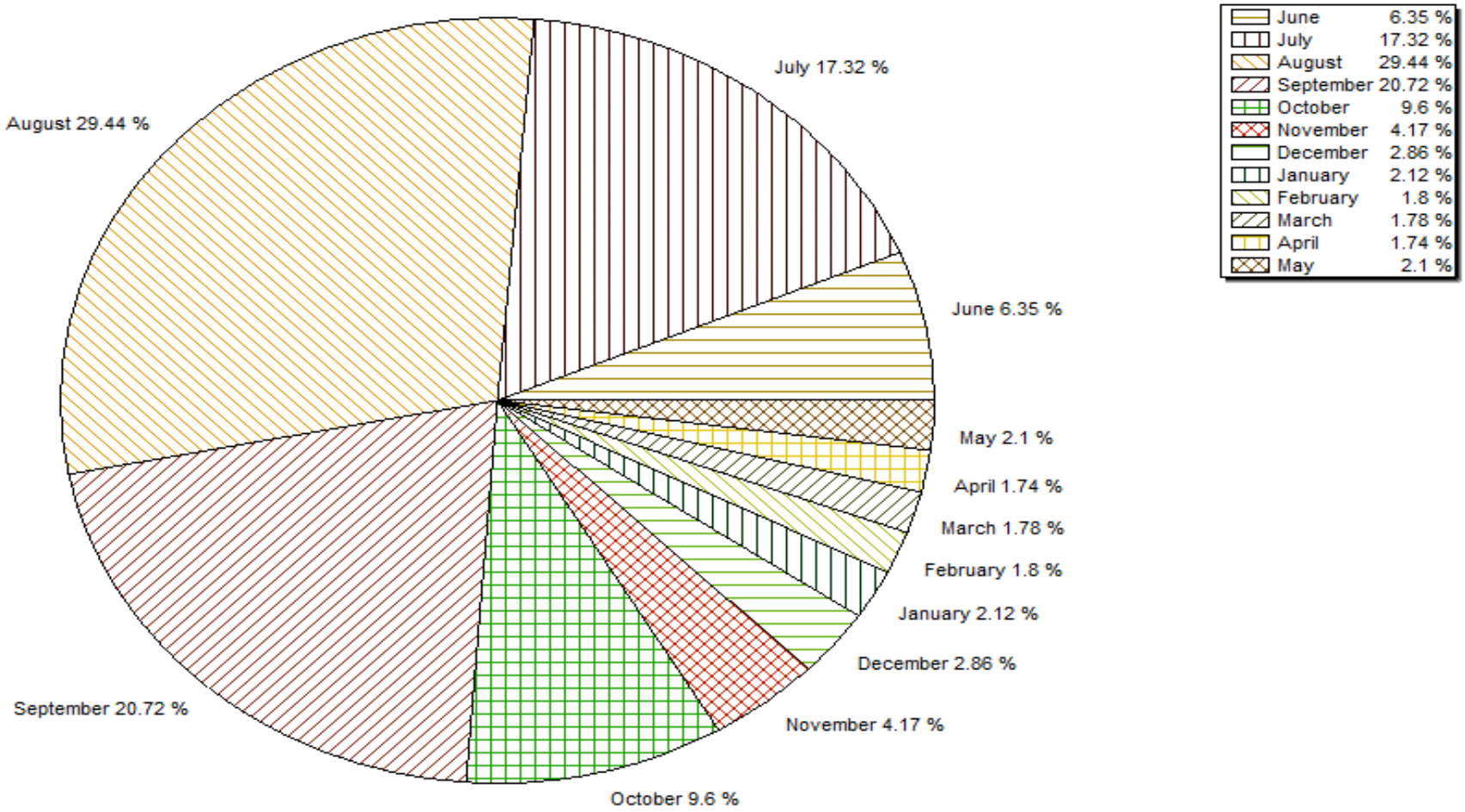
Monthly Average Runoff based on period : 1970-2016

Station Name : Saradaput (AGC00N4)

Local River : Sabari

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 2, Rajahmundry



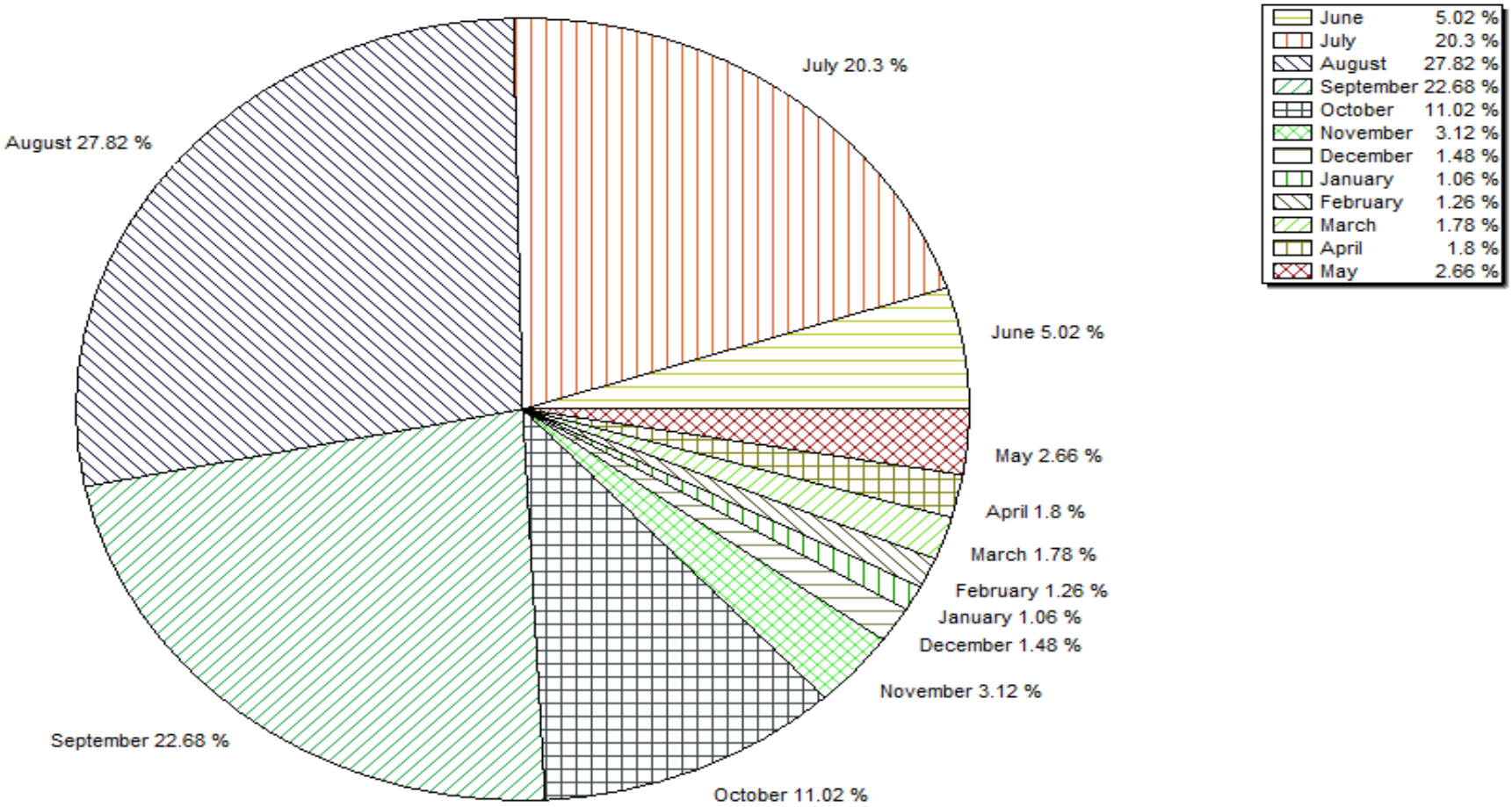
Monthly Runoff for the Year : 2016-2017

Station Name : Saradaput (AGC00N4)

Division : Lower Godavari Div., Hyderabad

Local River : Sabari

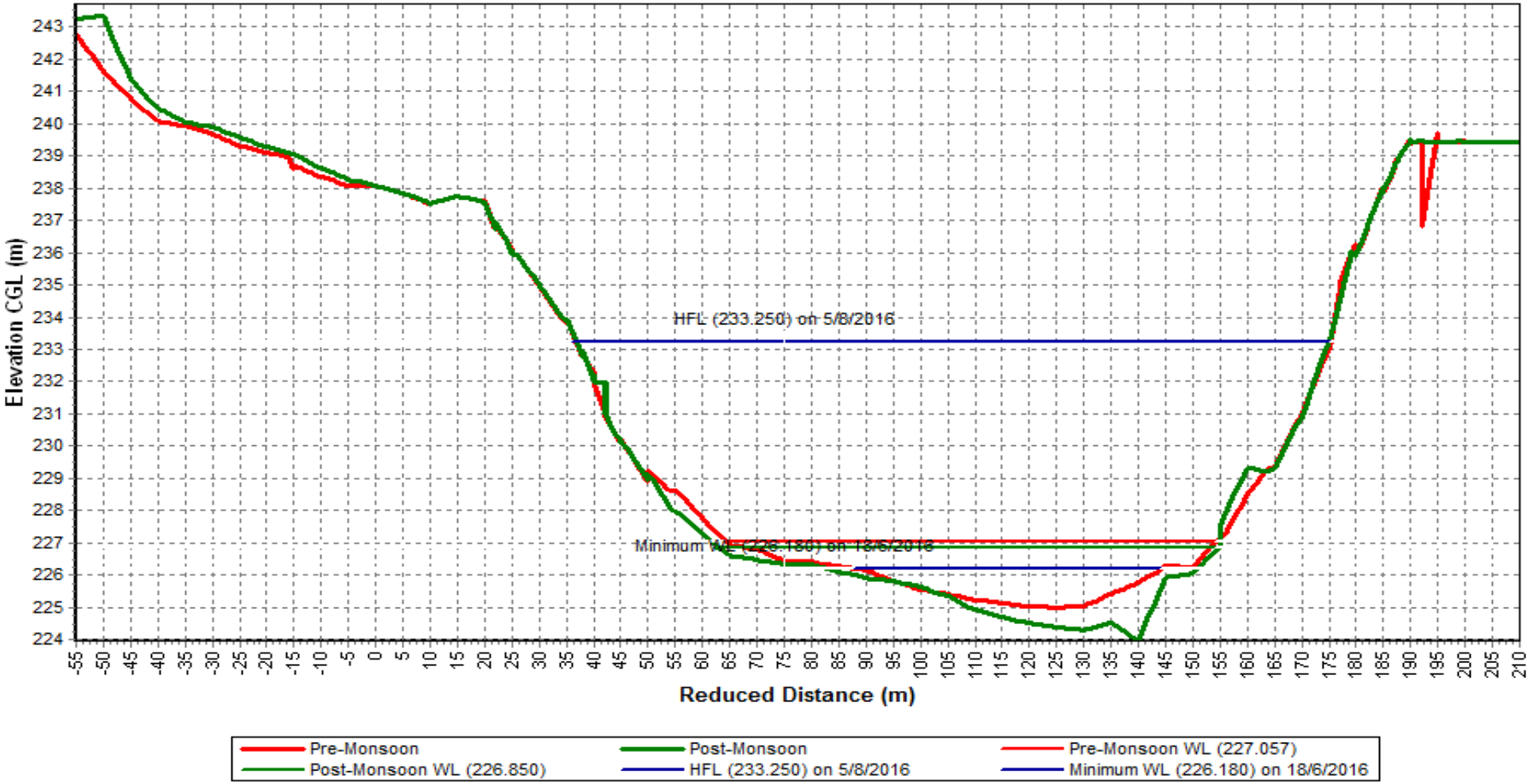
Sub-Division : Lower Godavari 2, Rajahmundry



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

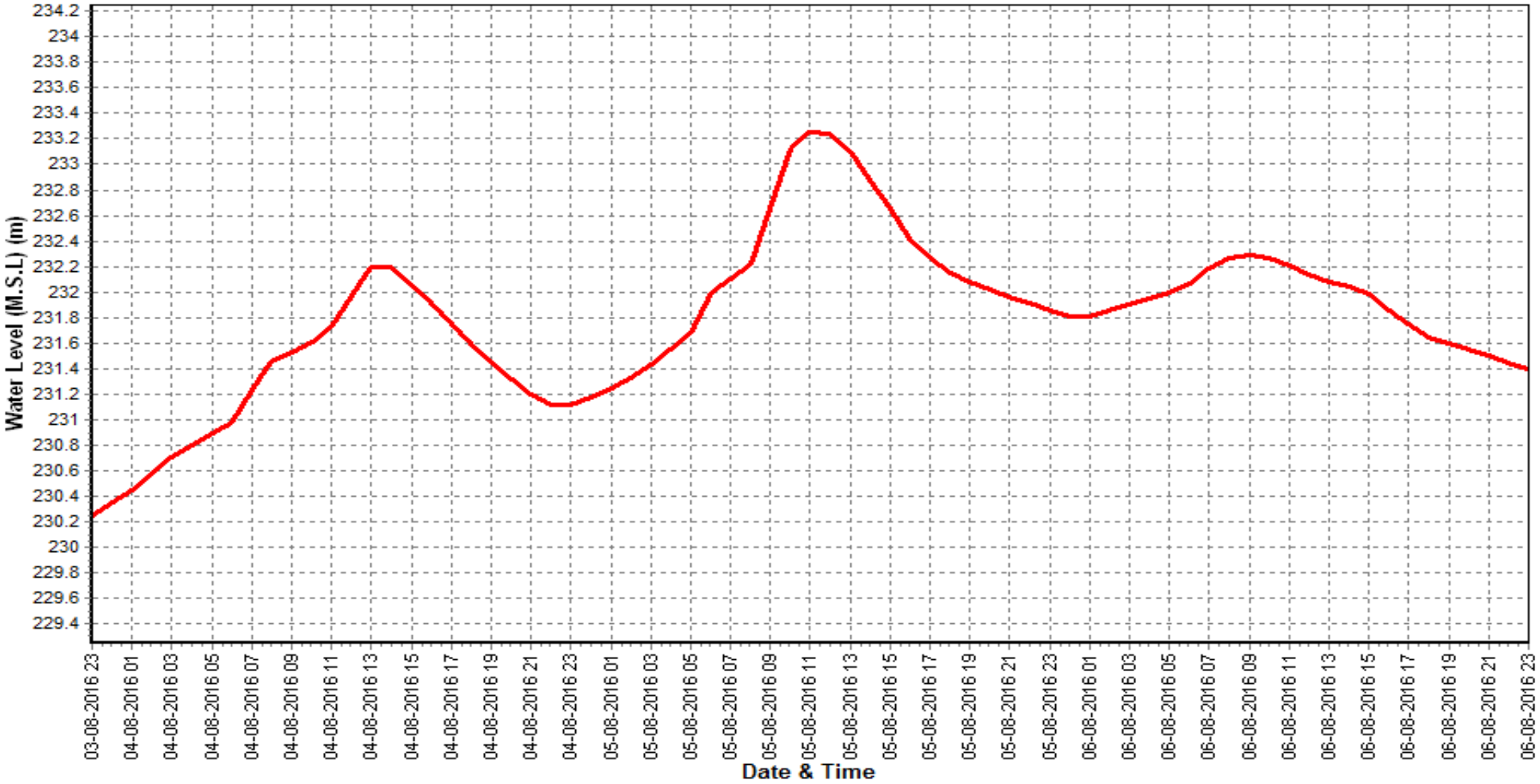
Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

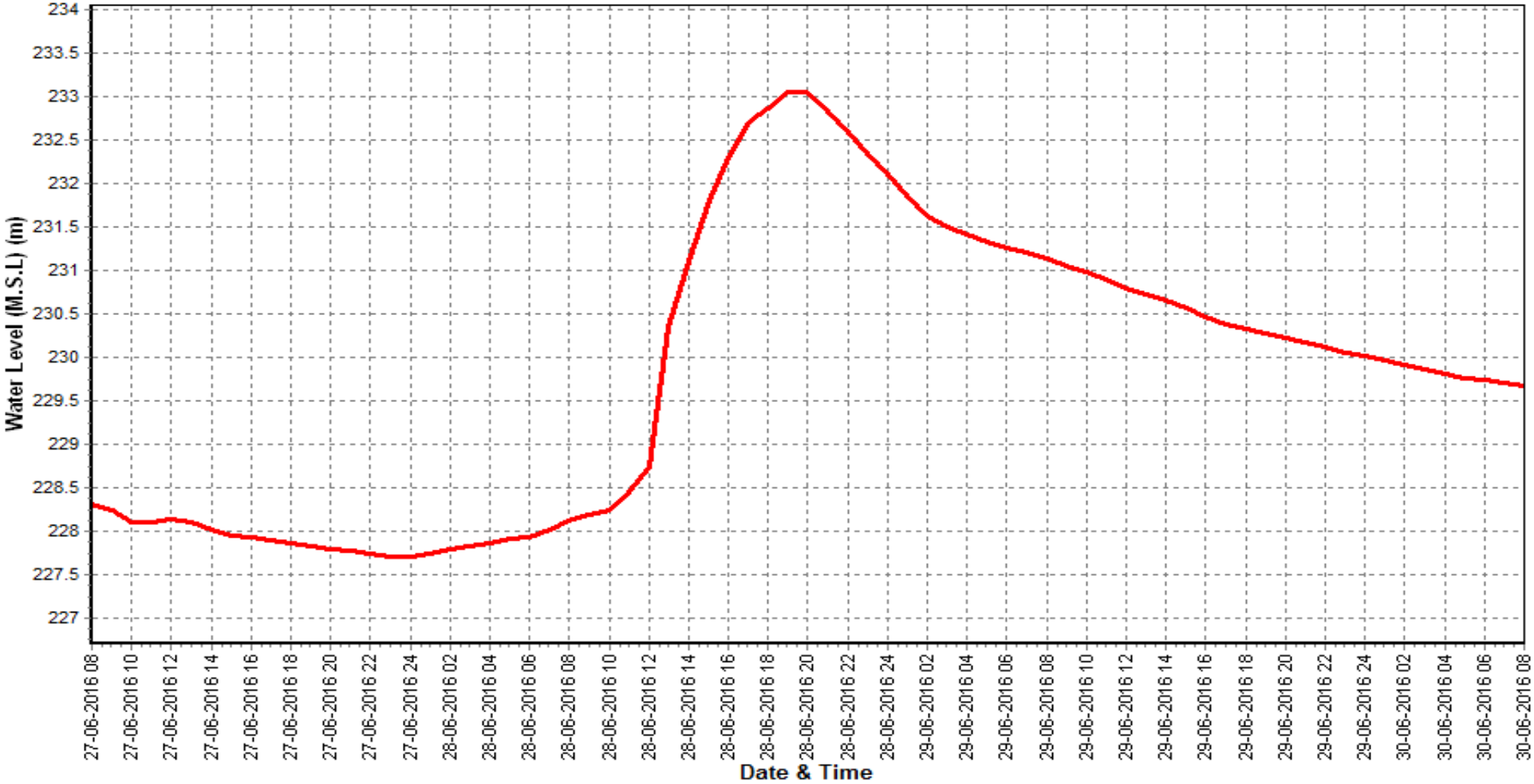


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**

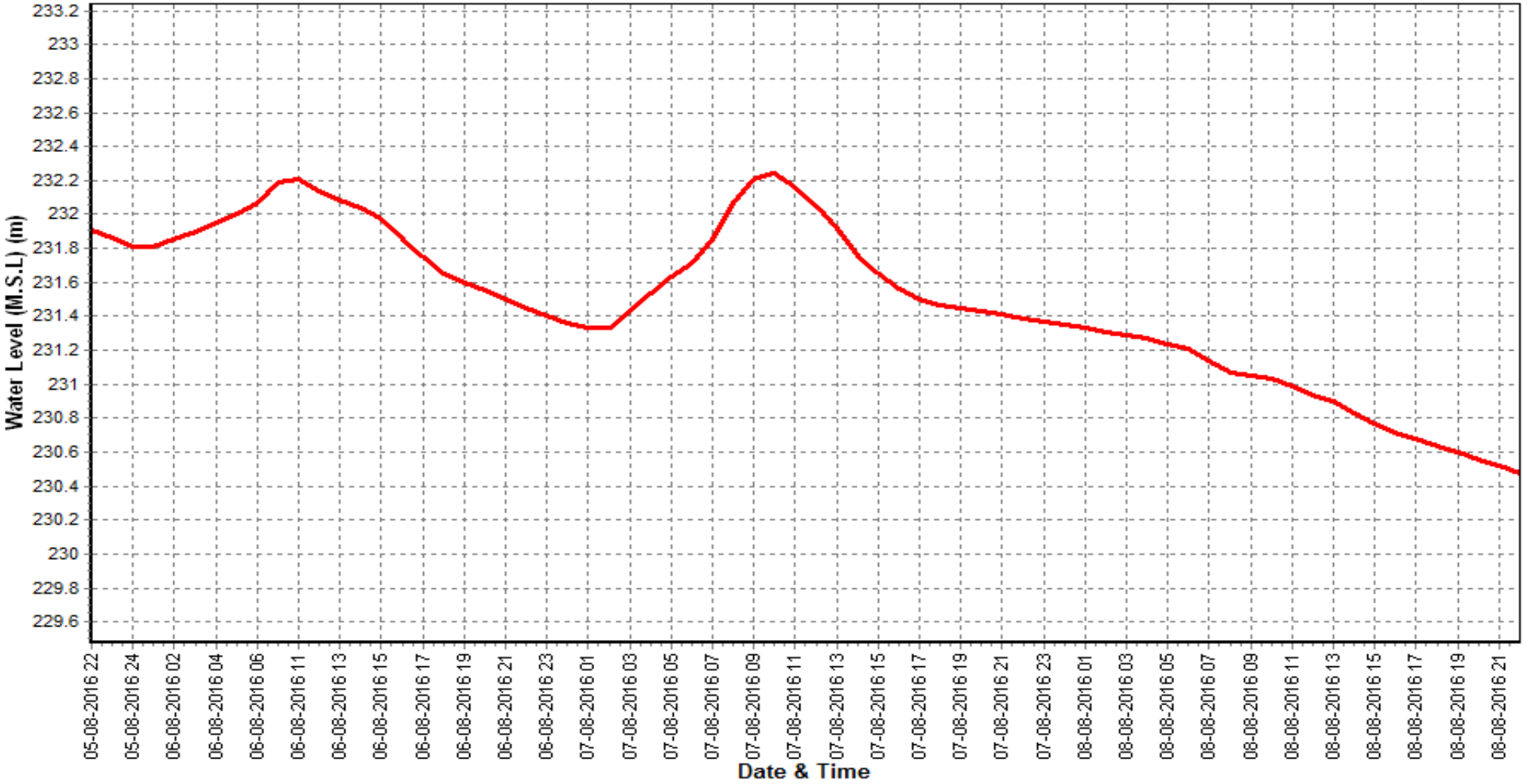


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Saradaput (AGC00N4) **Division : Lower Godavari Div., Hyderabad**

Local River : Sabari **Sub-Division : Lower Godavari 2, Rajahmundry**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	:	**Sangam**	**Code**	:	**Sangam**
State	:	Telangana	District		Khammam
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Kinnerasani	Sub Tributary	:	Mureru
Sub-Sub Tributary	:	-	Local River	:	Mureru
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 1, Bhadrachalam
Drainage Area	:	1565 Sq. Km.	Bank	:	Left
Latitude	:	17°35'50"	Longitude	:	80°49'40"
Zero of Gauge (m)	:	53 (m.s.l) 51 (m.s.l)	01.06.1996 01.06.2010	-	31.05.2010
		Opening Date	Closing Date		
Gauge	:	11.06.1996	**HFL During 2016-17**	:	**55.91**
			Corres.Discharge	:	**247.387 Cumecs(Estimated)**
Discharge	:	24.08.1996	**Date& Time of**	:	**30.06.2016**
			Occurance	:	**01:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1996-1997	269.2	56.750	11.09.1996	0.000		31.03.1997
1997-1998	92.57	55.120	27.07.1997	0.000		20.01.1998
1998-1999	335.5	56.315	10.07.1998	0.000		14.03.1999
1999-2000	219.9	55.680	20.08.1999	0.000		08.03.2000
2000-2001	348.6	56.320	28.08.2000	0.000		05.03.2001
2001-2002	228.2	55.770	04.08.2001	0.000		24.03.2002
2002-2003	254.9	55.880	13.08.2002	0.000		16.02.2003
2003-2004	285.6	56.050	22.08.2003	0.000		08.04.2004
2004-2005	410.8	56.070	24.07.2004	0.000		27.02.2005
2005-2006	970.6	58.250	21.09.2005	0.000	52.520	24.05.2006
2006-2007	449.6	56.370	05.08.2006	0.000		19.05.2007
2007-2008	128.7	54.910	20.09.2007	0.000		11.03.2008
2008-2009	253.8	56.880	10.08.2008	0.000		01.03.2009
2009-2010	100.9	55.200	22.05.2010	0.000		08.11.2009
2010-2011	198.0	55.400	30.08.2010	0.000	53.020	13.04.2011
2011-2012	127.4	54.980	18.08.2011	0.000		21.03.2012
2012-2013	121.2	55.180	03.11.2012	0.000	52.760	20.04.2013
2013-2014	125.3	55.400	26.10.2013	0.000		03.04.2014
2014-2015	130.6	54.780	28.08.2014	0.000	51.000	25.02.2015
2015-2016	302.6	55.710	21.06.2015	0.000	51.000	22.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Sangam (Sangam) **Division : Lower Godavari Div., Hyderabad**

Local River : Mureru **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	52.630	0.000 *	54.280	51.56 *	53.250	10.92	53.715	33.02	54.090	57.57	53.070	5.190
2	52.620	0.000 *	53.760	35.67	53.160	7.836	53.725	33.60	53.820	39.32 *	53.060	4.925
3	52.620	0.000 *	53.510	15.76 *	53.335	14.21	54.750	113.6 *	53.920	45.74	53.050	4.665
4	52.630	0.000 *	53.370	15.66	54.050	54.68 *	53.960	48.43 *	53.640	28.80	53.055	4.794
5	52.630	0.000 *	53.410	17.40	53.720	33.31	53.840	40.58 *	53.470	20.14	53.060	4.925
6	52.620	0.000 *	53.520	22.56	53.370	15.66	53.420	17.84	53.670	30.46	53.040	4.411 *
7	52.650	1.109 *	53.380	11.51 *	53.350	14.82 *	53.200	9.153	53.670	30.46 #	53.050	4.665
8	52.940	1.115	53.230	10.20	53.280	12.04	53.090	5.739	54.370	79.43 *	53.040	4.411
9	53.280	6.323	53.210	7.706	53.130	6.904	53.010	3.684	54.680	106.9 *	53.040	4.411 #
10	53.100	2.959	53.170	5.740 *	53.040	4.411	53.045	4.537	53.910	45.08 *	53.030	4.162
11	53.050	2.257	53.160	7.836	53.000	3.454	53.510	22.06 *	53.650	29.35 *	53.050	4.665 #
12	53.020	2.447 *	53.140	5.026	52.970	2.802 #	54.045	54.33	53.445	18.98	53.040	4.411 *
13	53.010	1.580	53.150	3.887	52.970	2.802	53.390	16.52 *	53.350	14.82	53.040	4.411 *
14	53.050	2.242	53.200	9.153	53.000	3.454 *	54.085	57.20	53.260	11.28	53.030	4.162 *
15	53.030	2.012	53.120	6.604	52.960	2.597 *	53.470	20.14	53.210	9.495 *	53.030	4.162 #
16	53.090	2.445	53.070	5.190	52.950	2.398 #	53.280	12.04	53.190	8.816	53.030	4.162 #
17	52.970	1.794	53.340	10.31 *	52.940	2.207 #	53.170	8.157	53.160	7.836	53.020	3.920 #
18	52.950	1.184	53.150	7.520	52.920	1.843	53.070	5.190 *	53.150	7.520	53.035	4.286
19	52.940	0.973 *	53.580	18.26 #	52.900	1.507	52.995	3.341	53.135	7.056 #	53.010	3.684
20	53.040	2.434	54.185	64.66	52.900	1.507	52.990	3.230	53.125	6.754	53.020	3.920 *
21	52.980	1.173	53.450	19.21	52.880	1.200	55.150	154.9 *	53.120	6.604	53.045	4.537
22	52.940	0.783	53.400	16.96	52.880	1.200	53.835	40.26	53.110	6.310 *	53.030	4.162
23	52.920	0.645	53.865	42.16	52.900	1.507	55.400	183.3 *	53.070	5.190	53.025	4.041
24	52.955	1.342	53.330	10.01 *	52.950	2.398	54.610	100.4 *	53.065	5.057	53.020	3.920 #
25	53.470	12.46	53.190	8.816	52.990	3.230	54.190	65.04 *	53.050	4.665	53.020	3.920 #
26	54.330	54.52 *	53.255	11.10	53.090	5.739	54.260	70.49 *	53.050	4.665	53.010	3.684
27	53.515	13.61	53.190	9.392	53.080	5.462	54.070	56.12	53.050	4.665	53.010	3.684 *
28	53.225	7.283	53.090	6.881	53.090	5.739 *	53.785	37.17	53.040	4.411	53.000	3.454 #
29	53.860	29.78 *	53.185	5.257	53.185	8.649	53.800	38.09	53.030	4.162 *	53.035	4.286
30	55.500	145.5 *	53.325	9.868 #	53.045	4.537	54.000	51.17	53.075	5.325	53.030	4.162
31			53.600	19.01 *	53.600	26.65 *			53.075	5.325 *		
Ten-Daily Mean												
I Ten-Daily	52.772	1.151	53.484	19.38	53.368	17.48	53.576	31.02	53.924	48.40	53.049	4.656
II Ten-Daily	53.015	1.937	53.310	13.84	52.951	2.457	53.401	20.22	53.268	12.19	53.030	4.178
III Ten-Daily	53.570	26.71	53.353	14.42	53.063	6.028	54.310	79.70	53.067	5.125	53.023	3.985
Monthly												
Min.	52.620	0.000	53.070	3.887	52.880	1.200	52.990	3.230	53.030	4.162	53.000	3.454
Max.	55.500	145.5	54.280	64.66	54.050	54.68	55.400	183.3	54.680	106.9	53.070	5.190
Mean	53.119	9.933	53.381	15.83	53.125	8.57	53.762	43.65	53.408	21.36	53.034	4.273

Annual Runoff in MCM = 279 Annual Runoff in mm = 178

Peak Observed Discharge = 64.66 cumecs on 20-07-2016 Corres. Water Level :54.185 m

Lowest Observed Discharge = 0.000 cumecs on 11-02-2017

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Sangam (Sangam) **Division : Lower Godavari Div., Hyderabad**

Local River : Mureru **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	53.030	3.133	52.910	1.153 *	52.760	0.183 *		0.000		0.000		0.000
2	53.010	3.087	52.900	1.031	52.760	0.183 *		0.000		0.000		0.000
3	53.010	3.065	52.900	0.951	52.750	0.183 *		0.000		0.000		0.000
4	53.010	3.001 *	52.900	0.940	52.740	0.183 *		0.000		0.000		0.000
5	53.000	2.604	52.890	1.309	52.730	0.183 *		0.000		0.000		0.000
6	53.005	2.656	52.890	0.915	52.730	0.183 *		0.000		0.000		0.000
7	52.980	2.328	52.885	0.792	52.730	0.183 *		0.000		0.000		0.000
8	52.980	2.360	52.890	0.908 *	52.730	0.183 *		0.000		0.000		0.000
9	52.975	2.098	52.880	0.592	52.720	0.183 *		0.000		0.000		0.000
10	52.970	2.137 *	52.880	0.498	52.710	0.183 *		0.000		0.000		0.000
11	52.970	2.137 *	52.880	0.516		0.000		0.000		0.000		0.000
12	52.965	1.879	52.870	0.505		0.000		0.000		0.000		0.000
13	52.960	1.853	52.865	0.439		0.000		0.000		0.000		0.000
14	52.960	1.830	52.860	0.619 *		0.000		0.000		0.000		0.000
15	52.950	1.758	52.860	0.619 *		0.000		0.000		0.000		0.000
16	52.950	1.747	52.850	0.514		0.000		0.000		0.000		0.000
17	52.950	1.664	52.850	0.522		0.000		0.000		0.000		0.000
18	52.940	1.598 *	52.840	0.467		0.000		0.000		0.000		0.000
19	52.950	1.663	52.840	0.480		0.000		0.000		0.000		0.000
20	52.940	1.590	52.840	0.479		0.000		0.000		0.000		0.000
21	52.940	1.577	52.830	0.403		0.000		0.000		0.000		0.000
22	52.930	1.353	52.830	0.423 *		0.000		0.000		0.000		0.000
23	52.930	1.340	52.820	0.385		0.000		0.000		0.000		0.000
24	52.930	1.318	52.810	0.382		0.000		0.000		0.000		0.000
25	52.930	1.440 *	52.810	0.383		0.000		0.000		0.000		0.000
26	52.920	0.976	52.810	0.344 *		0.000		0.000		0.000		0.000
27	52.920	0.948	52.800	0.320 *		0.000		0.000		0.000		0.000
28	52.910	0.950	52.800	0.320 *		0.000		0.000		0.000		0.000
29	52.900	0.803	52.790	0.307 *				0.000		0.000		0.000
30	52.910	0.843	52.780	0.304 *				0.000		0.000		0.000
31	52.900	0.813	52.770	0.311 *				0.000				0.000
Ten-Daily Mea												
I Ten-Daily	52.997	2.647	52.893	0.909	52.736	0.183		0.000		0.000		0.000
II Ten-Daily	52.954	1.772	52.856	0.516		0.000		0.000		0.000		0.000
III Ten-Daily	52.920	1.124	52.805	0.353		0.000		0.000		0.000		0.000
Monthly												
Min.	52.900	0.803	52.770	0.304	52.710	0.000		0.000		0.000		0.000
Max.	53.030	3.133	52.910	1.309	52.760	0.183		0.000		0.000		0.000
Mean	52.956	1.824	52.849	0.585	52.736	0.065		0		0		0

Peak Computed Discharge = 183.3 cumecs on 23-09-2016 Corres. Water Level :55.4 m

Lowest Computed Discharge = 0.000 cumecs on 01-06-2016 Corres. Water Level :52.63 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

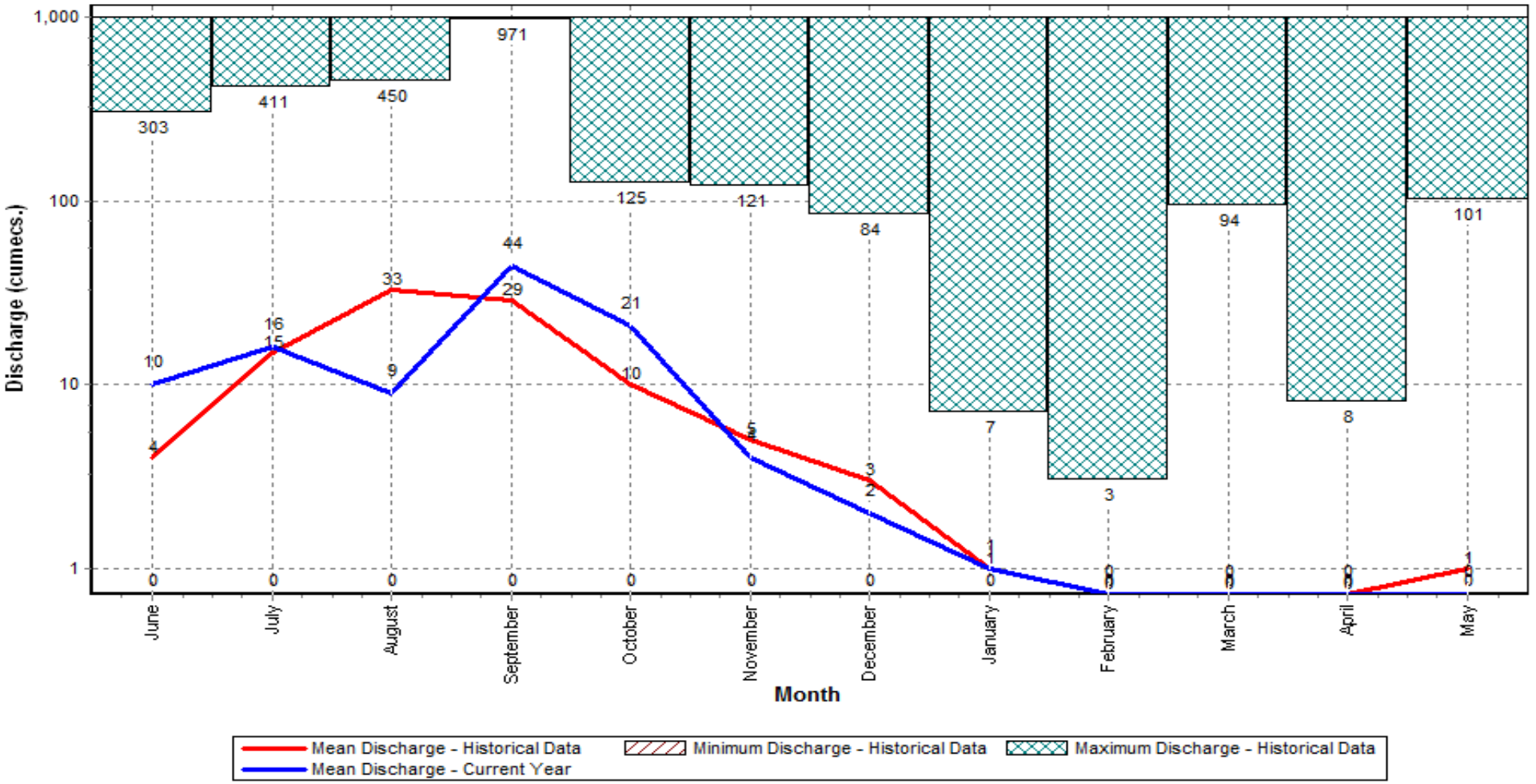
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Sangam (Sangam) | **Data considered : 1996-2017** | **Division : Lower Godavari Div., Hyderabad**

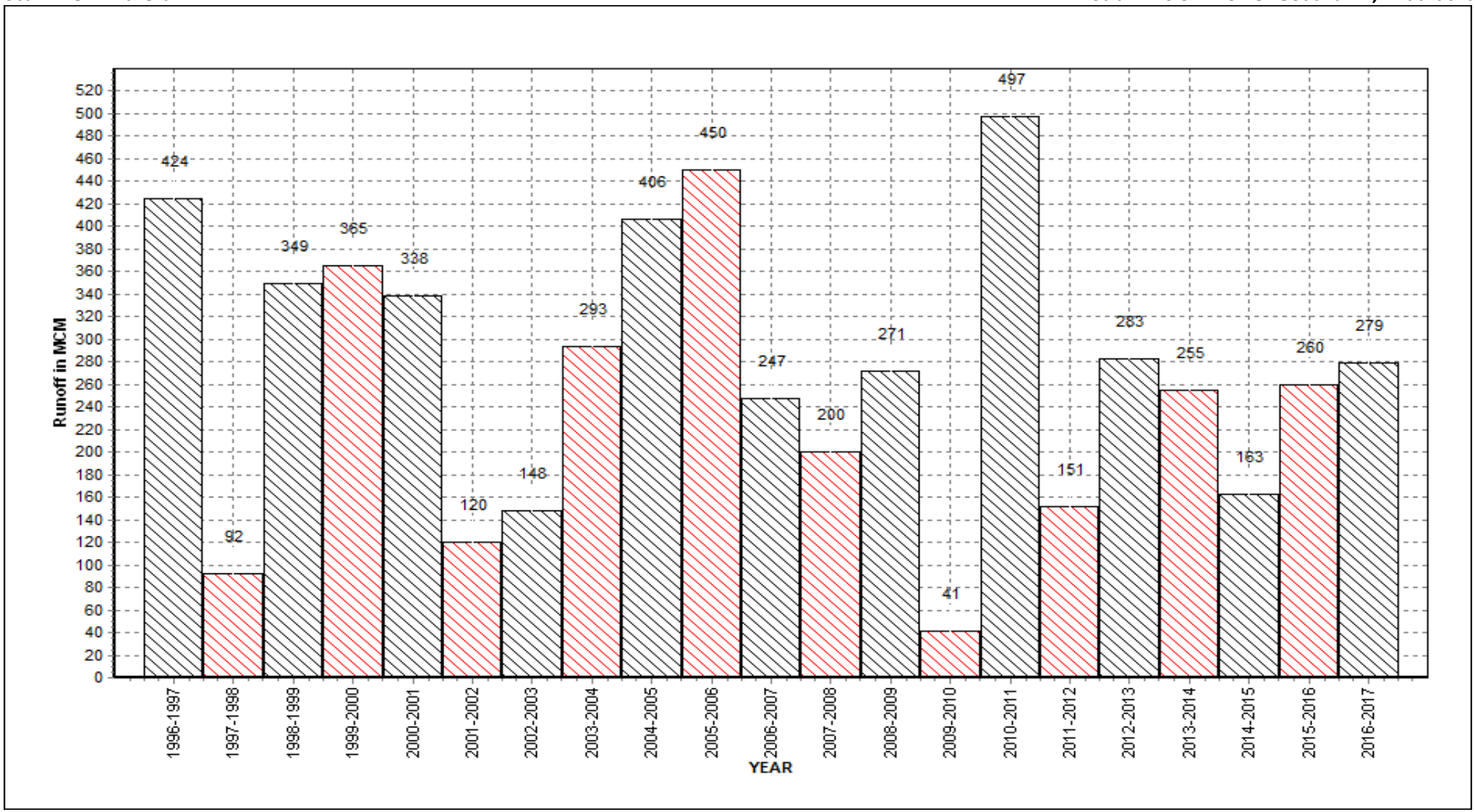
Local River : Mureru | **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 1996 - 2017

Station Name : Sangam (Sangam) **Division : Lower Godavari Div., Hyderabad**

Local River : Mureru **Sub-Division : Lower Godavari 1, Bhadrachalam**



Note: Missing values have not been considered while arriving at Annual Runoff

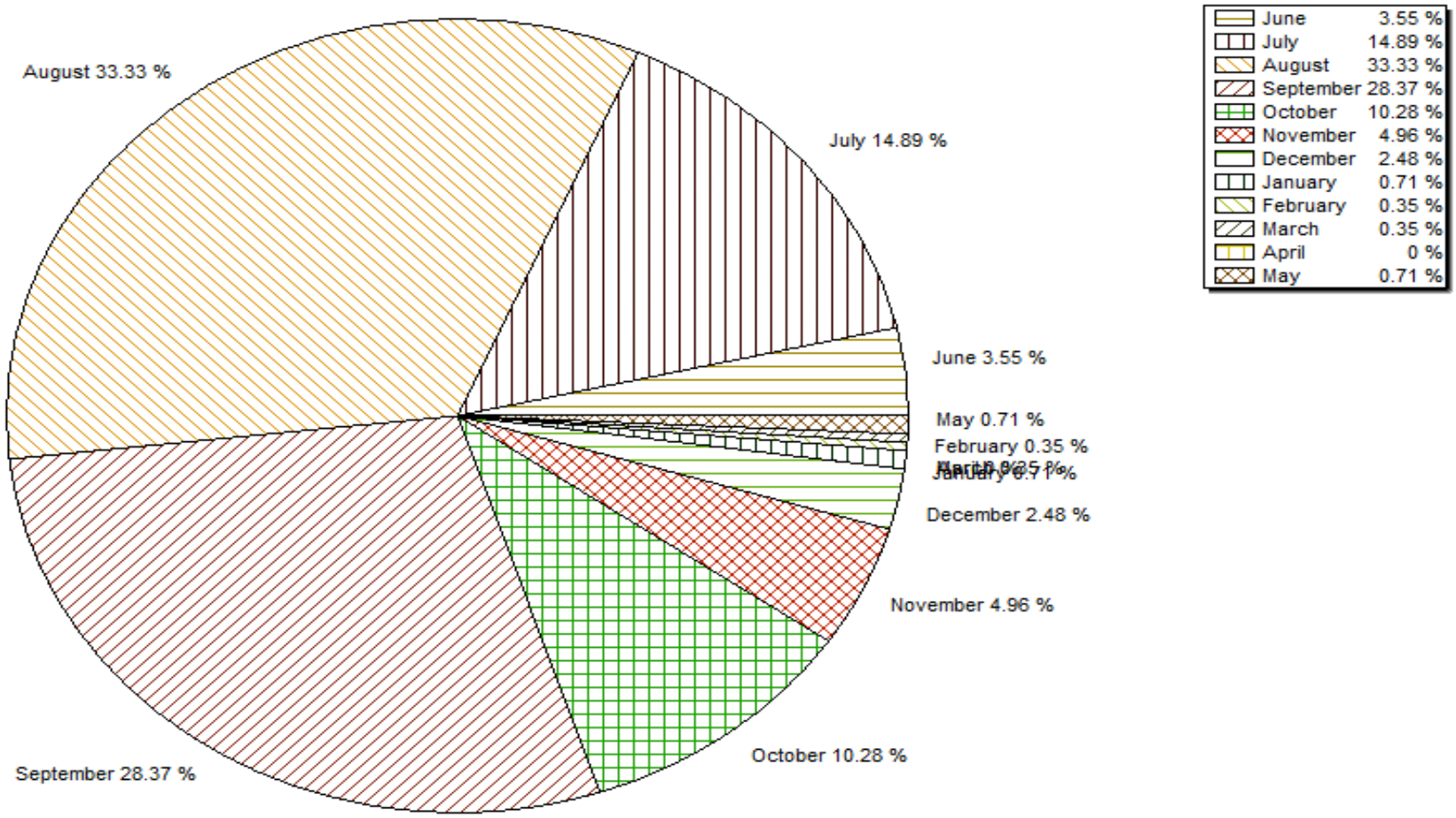
Monthly Average Runoff based on period : 1996-2016

Station Name : Sangam (Sangam)

Local River : Mureru

Division : Lower Godavari Div., Hyderabad

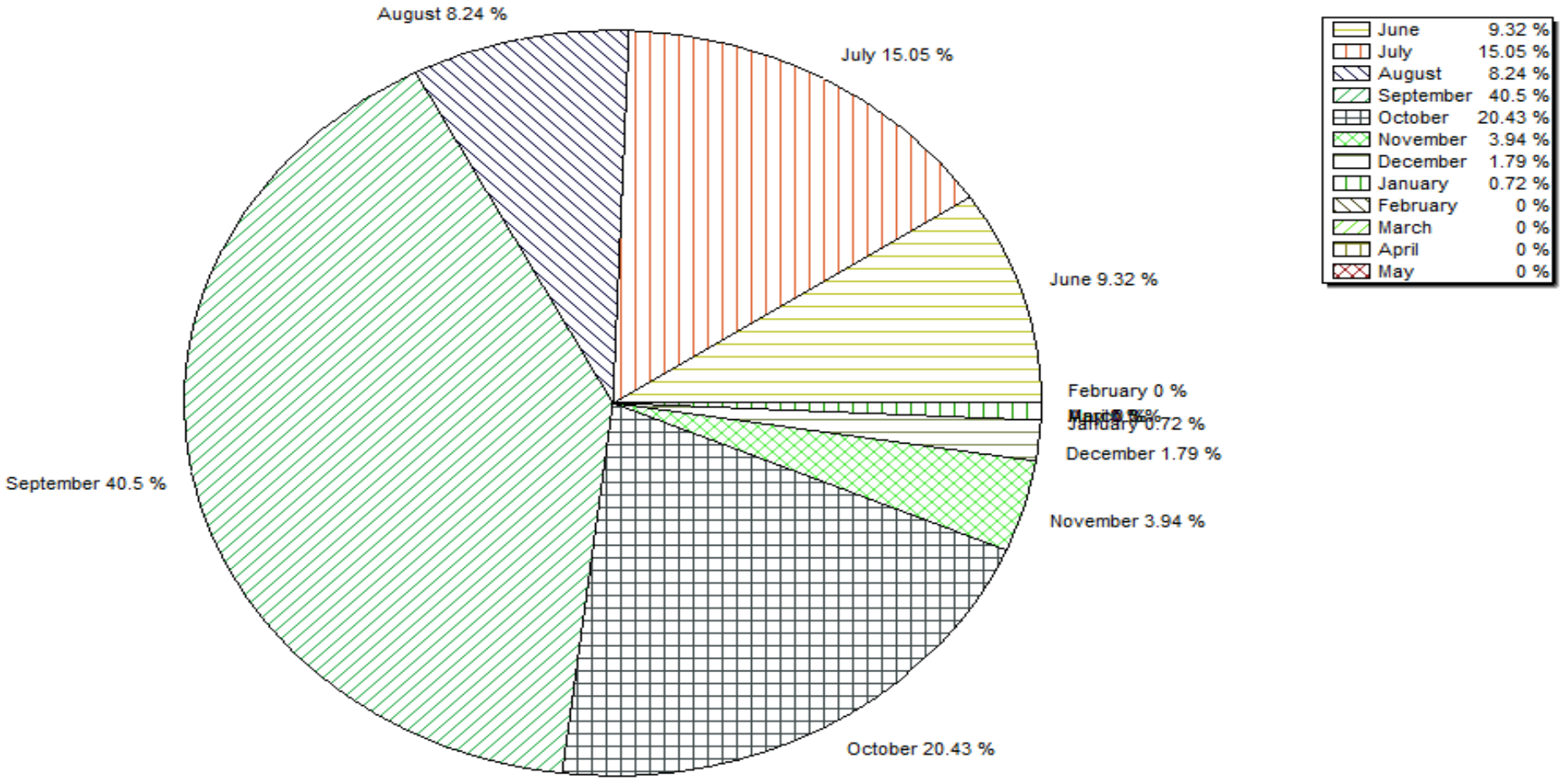
Sub-Division : Lower Godavari 1, Bhadrachalam



Monthly Runoff for the Year : 2016-2017

Station Name : Sangam (Sangam)
Local River : Mureru

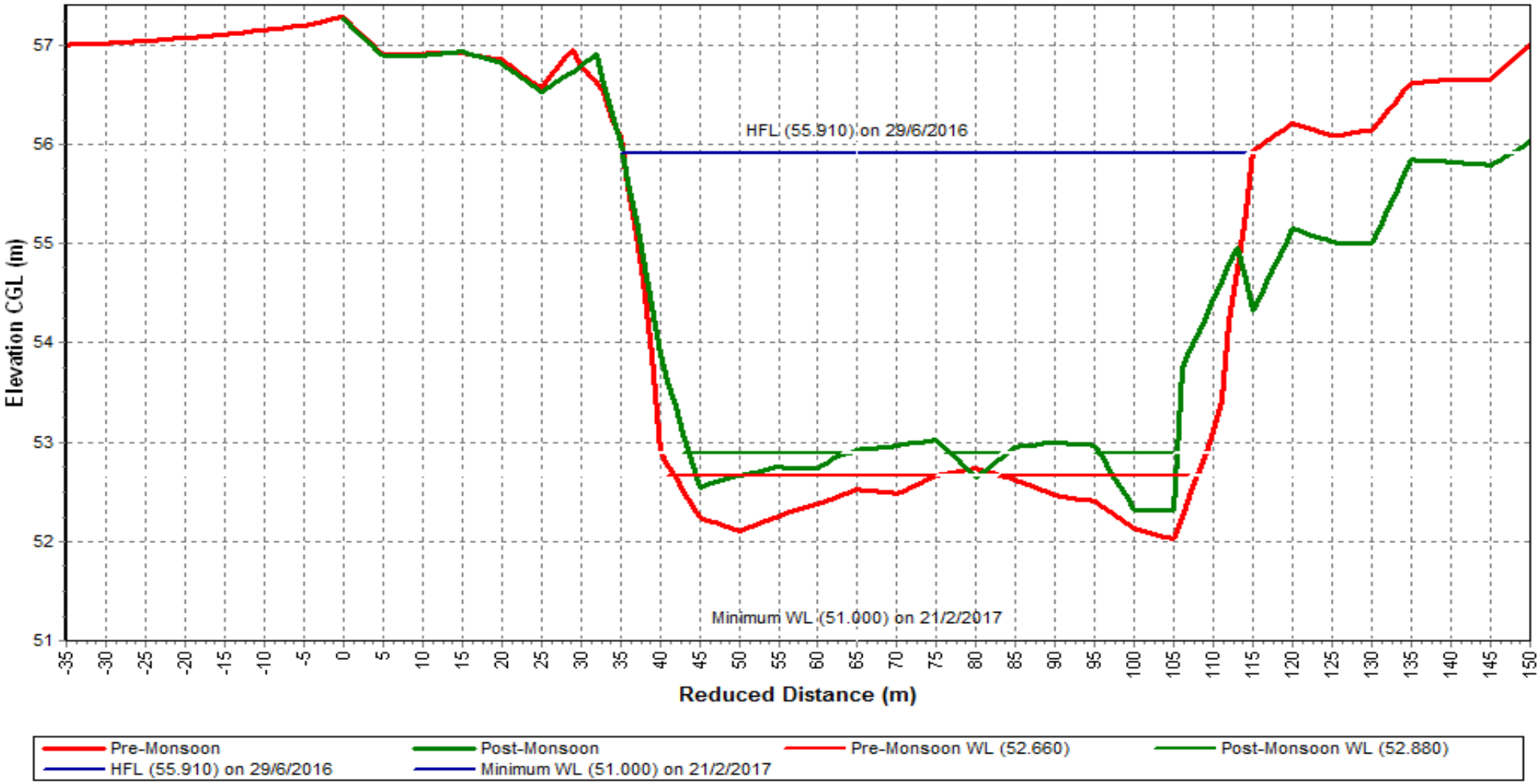
Division : Lower Godavari Div., Hyderabad
Sub-Division : Lower Godavari 1, Bhadrachalam



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Sangam (Sangam) **Division : Lower Godavari Div., Hyderabad**

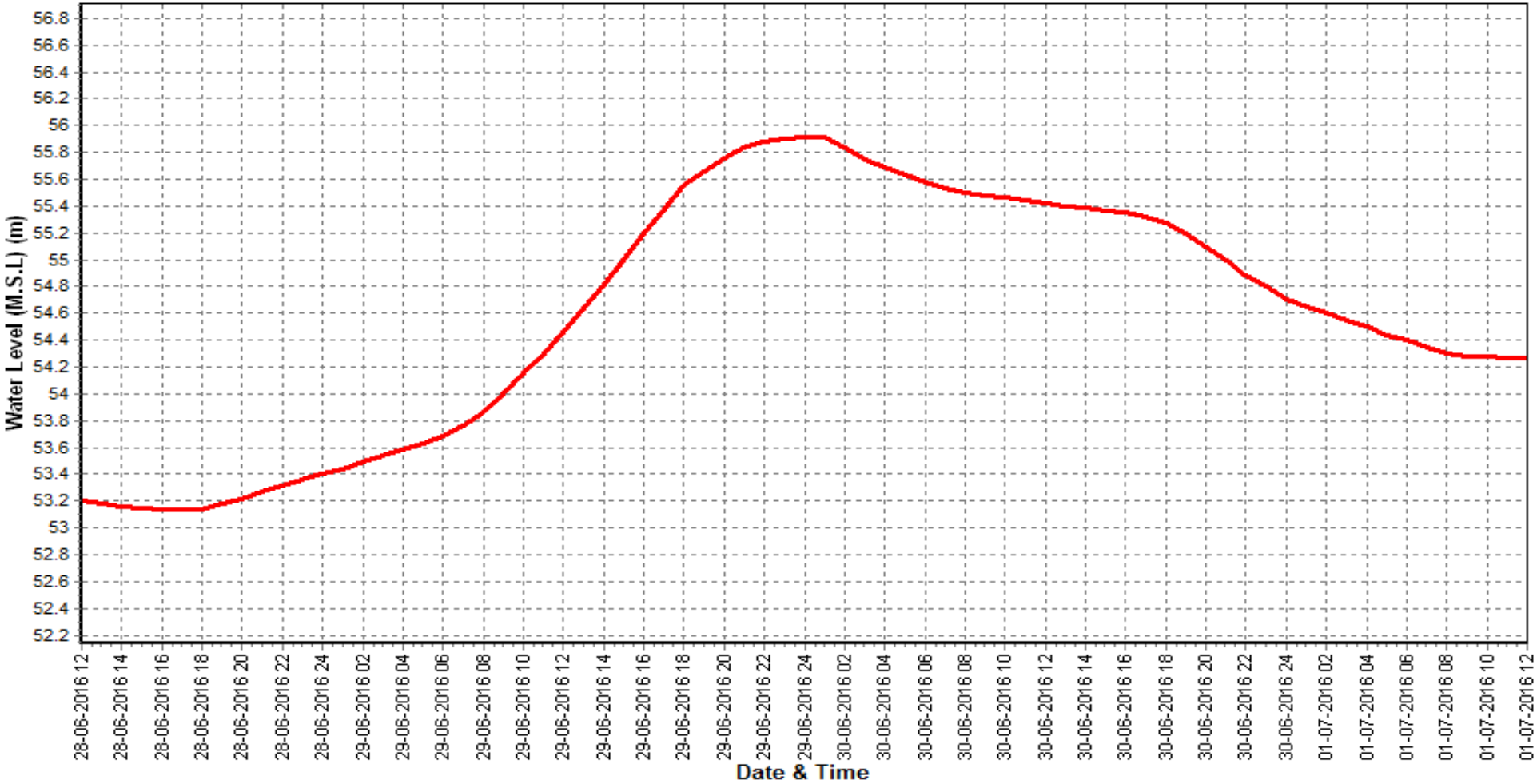
Local River : Mureru **Sub-Division : Lower Godavari 1, Bhadrachalam**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Sangam (Sangam) **Division : Lower Godavari Div., Hyderabad**

Local River : Mureru **Sub-Division : Lower Godavari 1, Bhadrachalam**

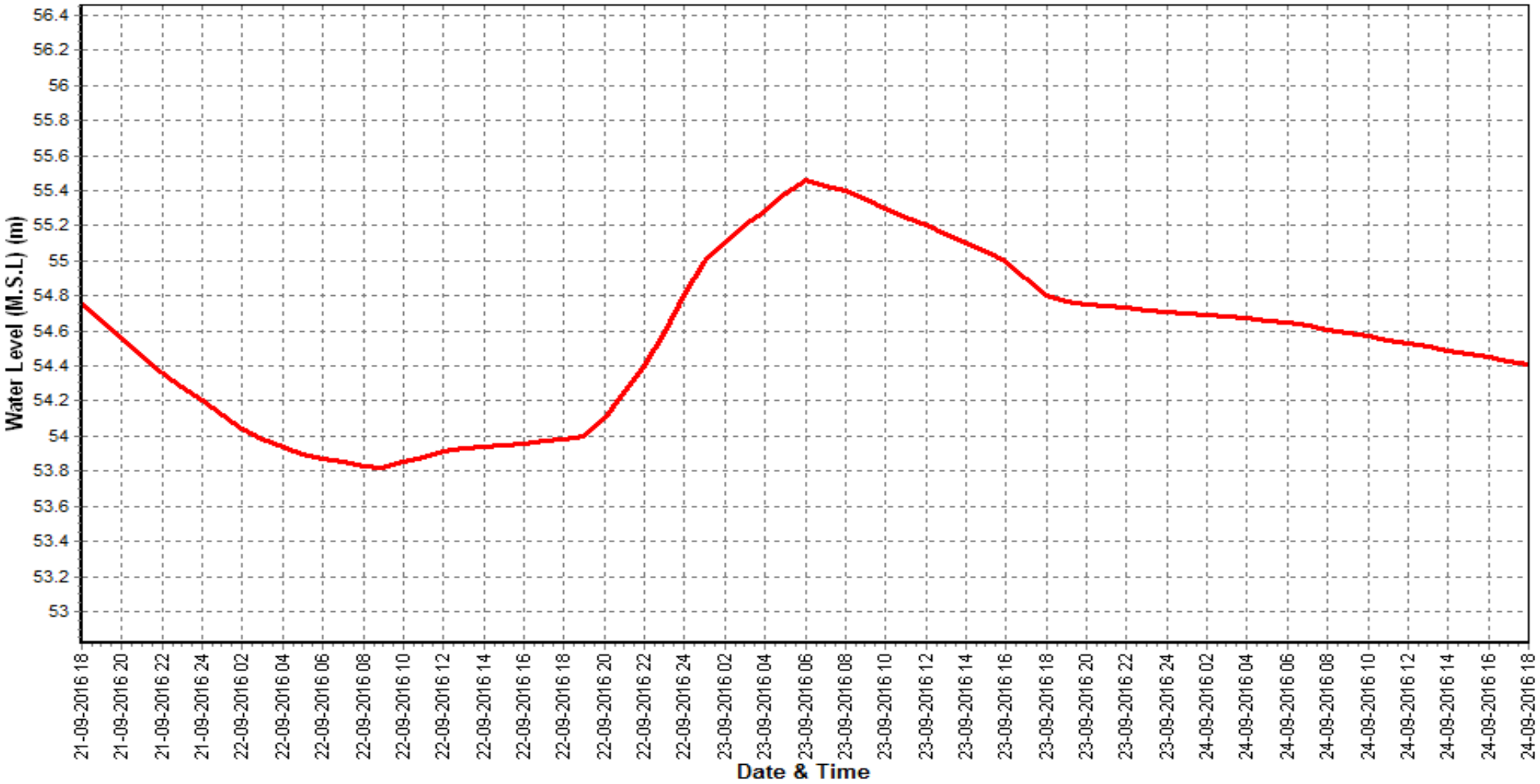


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Sangam (Sangam) **Division : Lower Godavari Div., Hyderabad**

Local River : Mureru **Sub-Division : Lower Godavari 1, Bhadrachalam**

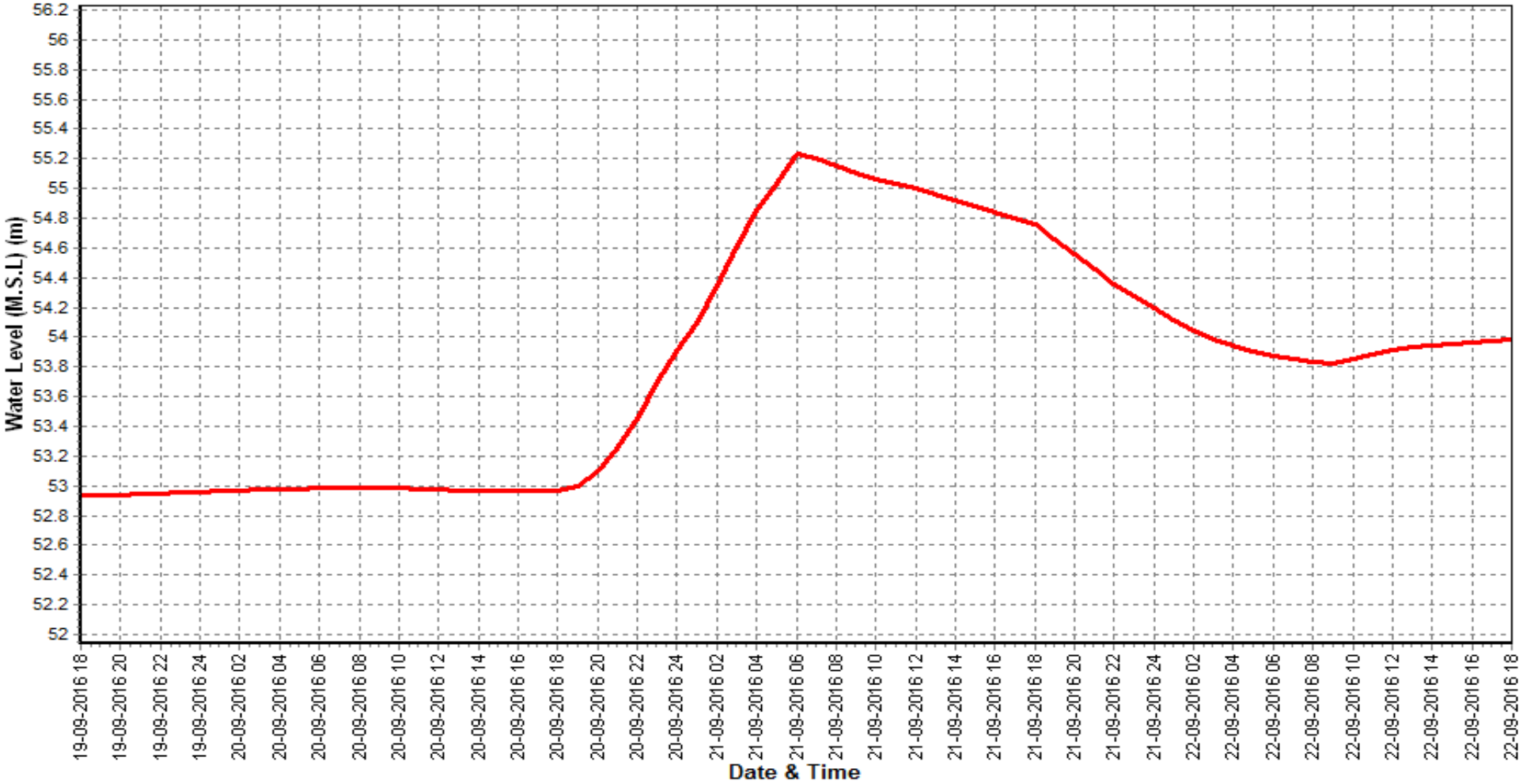


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Sangam (Sangam) **Division : Lower Godavari Div., Hyderabad**

Local River : Mureru **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Perur**	**Code**	**:**	**AG000G7**
State	:	Telangana	District		Khammam
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Lower Godavari 1, Bhadrachalam
Drainage Area	:	268200 Sq. Km.	Bank	:	Left
Latitude	:	18°35'14"	Longitude	:	80°26'10"
Zero of Gauge (m)	:	83 (m.s.l) 68.475 (m.s.l) 68.15 (m.s.l)	11.03.1964 17.09.1965 11.07.1976	-	16.09.1965 10.07.1976
		Opening Date	Closing Date		
Gauge	:	11.03.1964	**HFL During 2016-17**	**:**	**82.83**
			Corres.Discharge	**:**	**35778.337 Cumecs(Estimated)**
Discharge	:	17.09.1965	**Date& Time of**	**:**	**11.07.2016**
			Occurance	**:**	**12:00**
Sediment	:	24.02.1968			
Water Quality	:	24.10.1968			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	44418	85.455	06.09.1966	14.20	68.490	13.06.1966
1967-1968	30194	82.465	04.08.1967	13.07	69.120	12.06.1967
1968-1969	20662	80.045	18.08.1968	26.33	69.160	14.06.1968
1969-1970	33577	82.680	21.09.1969	23.43	69.890	22.05.1970
1970-1971	46078	83.875	20.08.1970	24.14	70.080	01.06.1970
1971-1972	18005	79.310	02.09.1971	12.10	69.130	31.05.1972
1972-1973	22129	80.355	06.07.1972	10.88	69.085	10.06.1972
1973-1974	32738	81.990	26.08.1973	12.44	68.995	01.06.1973
1974-1975	15559	79.760	12.08.1974	21.60	69.065	28.05.1975
1975-1976	34115	82.675	12.09.1975	29.03	69.143	03.06.1975
1976-1977	39427	84.040	22.07.1976	32.26	69.530	16.06.1976
1977-1978	27766	81.765	24.08.1977	45.74	69.678	04.06.1977
1978-1979	38329	83.230	01.09.1978	35.10	70.235	11.05.1979
1979-1980	36269	82.760	05.08.1979	38.90	70.185	20.06.1979
1980-1981	26480	82.015	03.08.1980	47.05	69.930	31.05.1981
1981-1982	51496	84.025	11.08.1981	30.60	70.520	12.05.1982
1982-1983	11750	77.750	18.08.1982	13.50	69.970	11.05.1983
1983-1984	43879	85.080	13.08.1983	12.60	69.960	17.06.1983
1984-1985	14784	79.510	22.08.1984	24.80	70.130	25.05.1985
1985-1986	12986	78.120	13.08.1985	24.57	69.560	31.05.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	62889	87.420	15.08.1986	18.30	70.460	27.05.1987
1987-1988	11809	78.515	10.07.1987	21.12	70.500	07.06.1987
1988-1989	39623	83.450	01.08.1988	24.40	70.050	31.05.1989
1989-1990	31414	82.750	25.07.1989	23.11	70.025	03.06.1989
1990-1991	62800	87.020	24.08.1990	27.15	70.745	23.05.1991
1991-1992	24830	81.655	18.08.1991	17.41	70.130	31.05.1992
1992-1993	35140	82.920	16.08.1992	11.94	70.170	30.05.1993
1993-1994	17642	80.070	05.08.1993	8.743	69.260	22.05.1994
1994-1995	41042	83.980	13.07.1994	9.615	69.260	03.06.1994
1995-1996	40205	83.750	21.10.1995	40.57	70.870	27.05.1996
1996-1997	8996	77.170	25.08.1996	32.97	70.300	31.05.1997
1997-1998	12350	78.270	23.08.1997	14.97	70.225	15.06.1997
1998-1999	18132	79.380	17.09.1998	40.79	69.850	14.05.1999
1999-2000	19223	80.280	12.08.1999	27.66	69.965	08.05.2000
2000-2001	40942	83.340	21.07.2000	12.90	70.690	31.05.2001
2001-2002	36288	82.730	22.08.2001	11.65	70.480	31.05.2002
2002-2003	24840	81.540	26.08.2002	11.07	70.420	31.05.2003
2003-2004	20116	80.160	27.07.2003	5.129	70.390	07.06.2003
2004-2005	16746	79.120	23.08.2004	18.67	69.840	31.05.2005
2005-2006	24436	81.130	18.09.2005	2.837	69.720	19.06.2005
2006-2007	51917	85.600	06.08.2006	26.65	70.600	31.05.2007
2007-2008	37378	82.810	09.08.2007	0.000	69.920	20.05.2008
2008-2009	25946	81.970	06.08.2008	4.467	69.760	19.05.2009
2009-2010	12393	77.750	28.08.2009	4.420	69.750	08.06.2009
2010-2011	44201	83.670	07.08.2010	12.42	69.630	07.06.2010
2011-2012	26113	80.930	02.09.2011	4.728	69.460	31.05.2012
2012-2013	27119	81.480	22.08.2012	2.557	69.410	14.06.2012
2013-2014	57245	85.080	02.08.2013	7.256	69.190	01.06.2013
2014-2015	44940	83.650	08.09.2014	28.23	69.350	30.05.2015
2015-2016	22779	80.080	22.06.2015	1.627	68.920	03.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	69.010	7.916	72.525	1932	75.040	5971	75.400	7117	76.990	10854 *	71.045	650.9
2	69.000	8.103	77.070	2628 *	75.100	6065	75.270	6731	71.465	704.5 *	70.960	520.4
3	69.000	7.279	76.530	2414 *	77.150	11185	75.200	6172	77.180	11435 *	70.910	568.3
4	68.990	7.773	75.260	5473	77.425	12500	75.520	6878 *	79.510	19819 *	71.030	624.5
5	68.980	7.000 *	74.610	3879	77.470	12117	75.260	6271 *	78.020	14190 *	71.050	612.5
6	68.990	6.534	74.255	3652	78.870	19574	74.640	4991	76.420	10415	71.010	605.8 *
7	69.040	11.04	73.880	1416 *	79.320	19048 *	74.260	4512	75.675	7705	70.945	568.6
8	69.090	16.79	73.500	3037	78.870	18064	73.940	3711	75.650	7193 *	70.865	568.5
9	69.120	18.76	73.260	2570 *	78.480	15826 *	73.500	2935	77.210	11528 *	70.790	510.3 *
10	69.140	21.12	79.410	19412 *	77.790	13405 *	73.150	2416 *	77.750	13271 *	70.730	485.2 *
11	69.150	21.13 *	82.730	35229 *	76.180	8405	74.150	4006 *	78.720	16716 *	70.670	460.6 *
12	69.170	21.13 *	82.760	35393 *	75.370	6926	77.050	11035 *	76.840	10406 *	70.580	424.5 *
13	69.160	26.44	81.000	26398 *	74.900	5479 *	78.070	14363 *	75.850	7690 *	70.500	393.2 *
14	69.200	30.25	79.635	18766	74.290	4262 *	78.140	14608 *	75.250	6143	70.450	374.0 *
15	69.210	29.31	77.545	10476	74.200	4096 *	77.580	12709 *	74.695	5097	70.400	376.9
16	69.170	27.06	75.965	8504	74.990	5672 *	77.300	11810 *	74.330	4337 *	70.350	342.3
17	69.150	24.00	75.080	5868 *	74.510	4683 *	76.890	10554 *	73.710	3061	70.310	322.0 *
18	69.150	23.41	74.220	3955	74.140	3988 *	75.810	7589 *	73.320	2615	70.260	304.0 *
19	69.230	34.44 *	73.750	3249	73.760	3335 *	74.960	5439	72.990	2076	70.210	286.3 *
20	69.230	34.44	73.940	3482	73.410	2788 *	74.560	4615	72.810	1655	70.160	268.8 *
21	69.270	38.39	74.160	4013	73.000	2214 *	74.430	4708	72.560	1345	70.290	347.7
22	69.330	51.22	74.200	4152	72.885	1887	74.930	5573	71.400	1320	70.250	283.4
23	69.410	64.45	74.700	4989	72.640	1568	74.820	5310	72.310	1411 *	70.200	323.3
24	69.595	105.2	75.700	7315 *	72.420	1255	74.650	5068	72.120	1261	70.150	275.7
25	69.700	131.2	76.450	9610	72.550	1485	74.830	5331 *	71.970	1159	70.150	221.7
26	69.790	143.6 *	76.085	7853	72.520	1439	78.080	14398 *	71.820	1096	70.130	239.5
27	69.735	149.9	76.320	8327	73.260	2547	79.030	17902 *	71.735	938.0	70.090	245.0 *
28	69.730	165.4	76.130	7946	74.090	3898 *	79.960	21706 *	71.465	1009	70.050	215.1
29	70.330	280.2 *	75.360	5488	75.705	7679	78.380	15463 *	71.400	938.4	70.050	231.0
30	72.000	775.9 *	75.580	7251	75.250	6645	77.380	12063 *	71.290	596.5 *	70.030	208.9
31			75.340	6455 *	75.630	7496			71.150	761.8		
Ten-Daily Mean												
I Ten-Daily	69.036	11.23	75.030	4641	77.551	13376	74.614	5173	76.587	10711	70.933	571.5
II Ten-Daily	69.182	27.16	77.662	15132	74.575	4963	76.451	9673	74.852	5980	70.389	355.3
III Ten-Daily	69.889	190.5	75.457	6673	73.632	3465	76.649	10752	71.747	1076	70.139	259.1
Monthly												
Min.	68.980	6.534	72.525	1416	72.420	1255	73.150	2416	71.150	596.5	70.030	208.9
Max.	72.000	775.9	82.760	35393	79.320	19574	79.960	21706	79.510	19819	71.050	650.9
Mean	69.369	76.31	76.031	8746	75.200	7145	75.905	8533	74.310	5766	70.487	395.3

Annual Runoff in MCM = 82771 Annual Runoff in mm = 309

Peak Observed Discharge = 19574 cumecs on 06-08-2016 Corres. Water Level :78.87 m

Lowest Observed Discharge = 6.534 cumecs on 06-06-2016 Corres. Water Level :68.99 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	70.000	235.5	69.700	142.9 *	69.810	126.8	69.700	130.6	69.390	47.40	69.100	8.095
2	69.980	185.6	69.720	142.9	69.800	128.4	69.700	124.7	69.370	38.56 *	69.090	7.063
3	69.950	192.5	69.730	140.4	69.790	138.6 #	69.680	119.9	69.350	38.55	69.080	11.48
4	69.930	192.6 *	69.740	144.3	69.780	138.6	69.660	129.5	69.330	35.81	69.080	11.32
5	69.910	161.2	69.750	152.5	69.770	127.2 *	69.650	111.2 *	69.310	34.11 *	69.070	11.16
6	69.910	199.8	69.750	148.0	69.780	127.2	69.640	121.5	69.320	34.11	69.070	11.72
7	69.910	179.0	69.750	148.6	69.790	130.0 #	69.630	105.5	69.320	34.97	69.060	9.799 *
8	69.890	184.3	69.740	145.9 *	69.780	117.3 #	69.630	104.3	69.310	34.34 *	69.060	9.799
9	69.870	182.1	69.740	145.9	69.760	117.3	69.620	117.1	69.300	34.33 *	69.050	9.339
10	69.870	173.7 *	69.740	146.7	69.740	116.4	69.600	114.1	69.280	34.32	69.050	9.339 *
11	69.850	167.6 *	69.720	135.4	69.720	106.9 *	69.590	111.6 *	69.270	32.69 #	69.040	9.338
12	69.850	165.8	69.710	134.2	69.720	106.9	69.600	114.0 *	69.250	29.10 #	69.070	11.48
13	69.830	170.1	69.710	123.7 *	69.710	105.4	69.590	111.6	69.240	27.33 #	69.070	8.617 *
14	69.810	166.4	69.720	123.7 *	69.700	105.0	69.600	105.2	69.230	25.59 *	69.050	8.615 *
15	69.790	169.1	69.720	123.7	69.690	106.2	69.600	105.8	69.220	18.44	69.040	8.614
16	69.770	131.7	69.730	126.0	69.690	128.0	69.610	102.9	69.210	22.16 *	69.040	7.876
17	69.760	138.9	69.740	130.6	69.680	127.9	69.620	110.2	69.190	17.18	69.040	9.095
18	69.750	137.4 *	69.740	129.1	69.680	120.9 *	69.600	102.0	69.180	15.74	69.040	8.740
19	69.740	116.2	69.750	118.7	69.700	120.9	69.590	104.0 *	69.170	14.33	69.040	8.560
20	69.740	132.2	69.750	125.7	69.710	132.7	69.570	104.0	69.150	14.46	69.030	8.499
21	69.730	130.6	69.750	130.3 *	69.710	131.2	69.560	97.40	69.165	12.45	69.030	8.930 *
22	69.710	115.5	69.750	130.3	69.710	135.1	69.540	89.42	69.130	11.02	69.030	8.930
23	69.690	110.3	69.750	129.9	69.710	132.9	69.520	85.36	69.140	10.35 *	69.020	8.064
24	69.680	103.8	69.750	134.0	69.710	129.4	69.510	80.15	69.140	10.35	69.010	8.068
25	69.670	114.1 *	69.750	139.6 *	69.710	125.2 *	69.490	82.54	69.130	9.626	69.010	7.092
26	69.650	105.5	69.770	139.7	69.690	125.2	69.480	79.05 *	69.130	9.600	69.010	7.092
27	69.640	101.8	69.800	151.0	69.690	122.4	69.470	79.04	69.120	8.084 #	69.030	8.586
28	69.630	129.2	69.820	154.2 *	69.690	130.6 *	69.460	73.90	69.120	9.910	69.060	11.91 *
29	69.630	110.8	69.820	154.2			69.450	59.08 *	69.110	8.685	69.090	11.91
30	69.640	112.5	69.820	160.7			69.430	59.06	69.110	8.096 *	69.100	13.57
31	69.670	126.4	69.820	160.7 *			69.410	59.48			69.110	14.06
Ten-Daily M												
I Ten-Daily	69.922	188.6	69.736	145.8	69.780	126.8	69.651	117.8	69.328	36.65	69.071	9.911
II Ten-Daily	69.789	149.5	69.729	127.1	69.700	116.1	69.597	107.1	69.211	21.70	69.046	8.944
III Ten-Daily	69.667	114.6	69.782	144.1	69.702	129.0	69.484	76.77	69.130	9.817	69.045	9.838
Monthly												
Min.	69.630	101.8	69.700	118.7	69.680	105.0	69.410	59.06	69.110	8.084	69.010	7.063
Max.	70.000	235.5	69.820	160.7	69.810	138.6	69.700	130.6	69.390	47.40	69.110	14.06
Mean	69.789	149.7	69.750	139.1	69.729	123.6	69.574	99.81	69.223	22.72	69.054	9.573

Peak Computed Discharge = 35393 cumecs on 12-07-2016 Corres. Water Level :82.76 m

Lowest Computed Discharge = 7.000 cumecs on 05-06-2016 Corres. Water Level :68.98 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

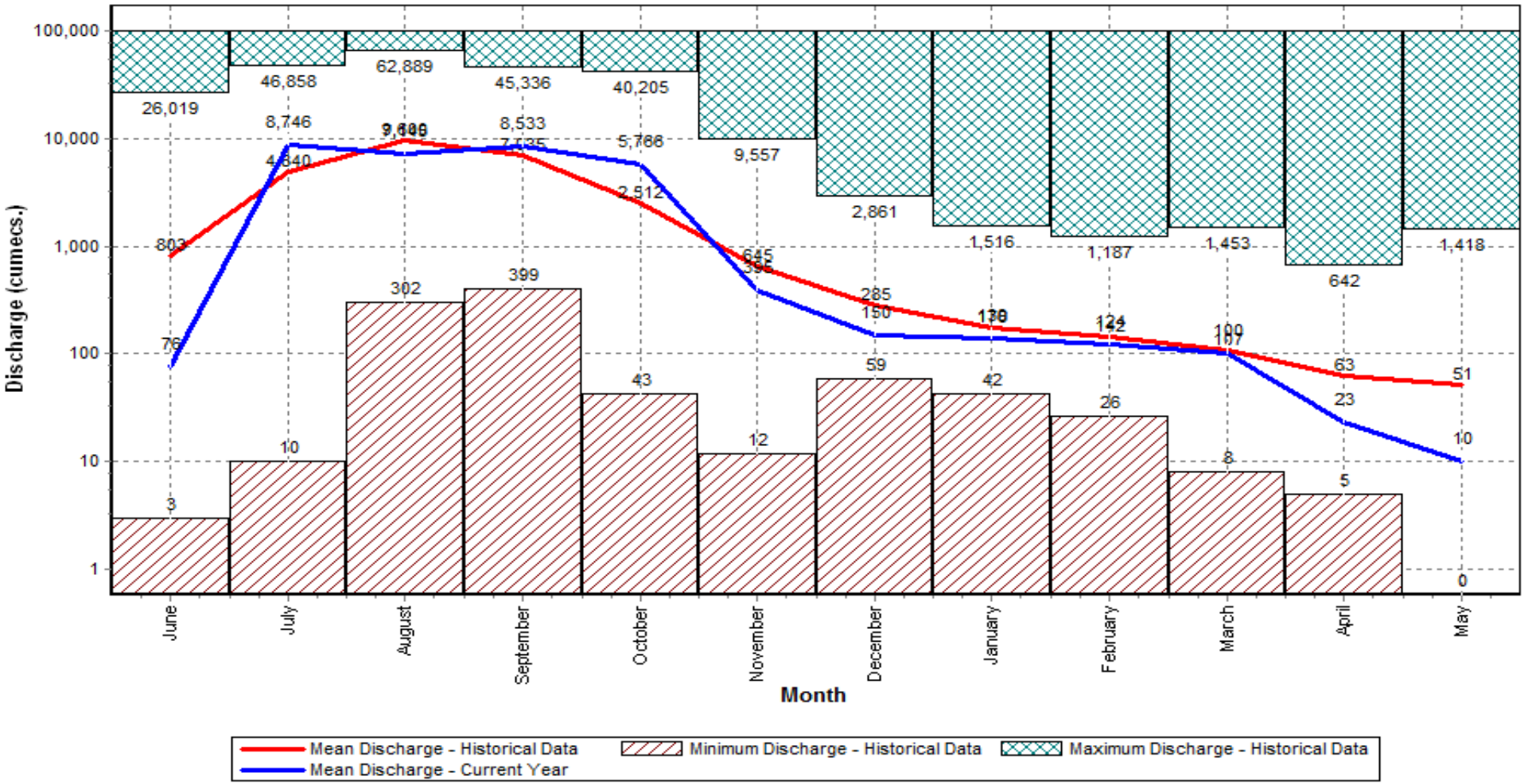
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Perur (AG000G7) **Data considered : 1966-2017** **Division : Lower Godavari Div., Hyderabad**

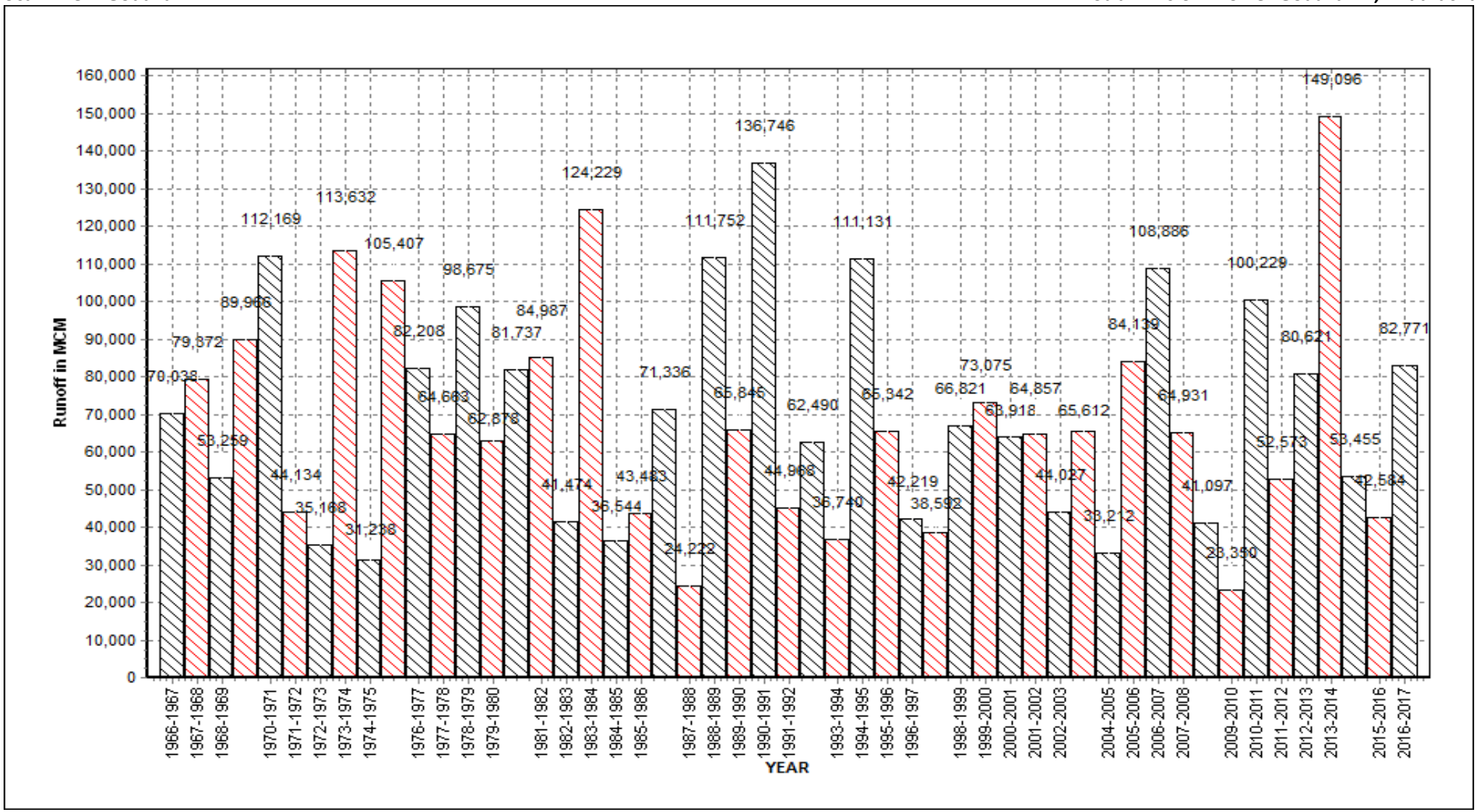
Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 1966 - 2017

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Note: Missing values have not been considered while arriving at Annual Runoff

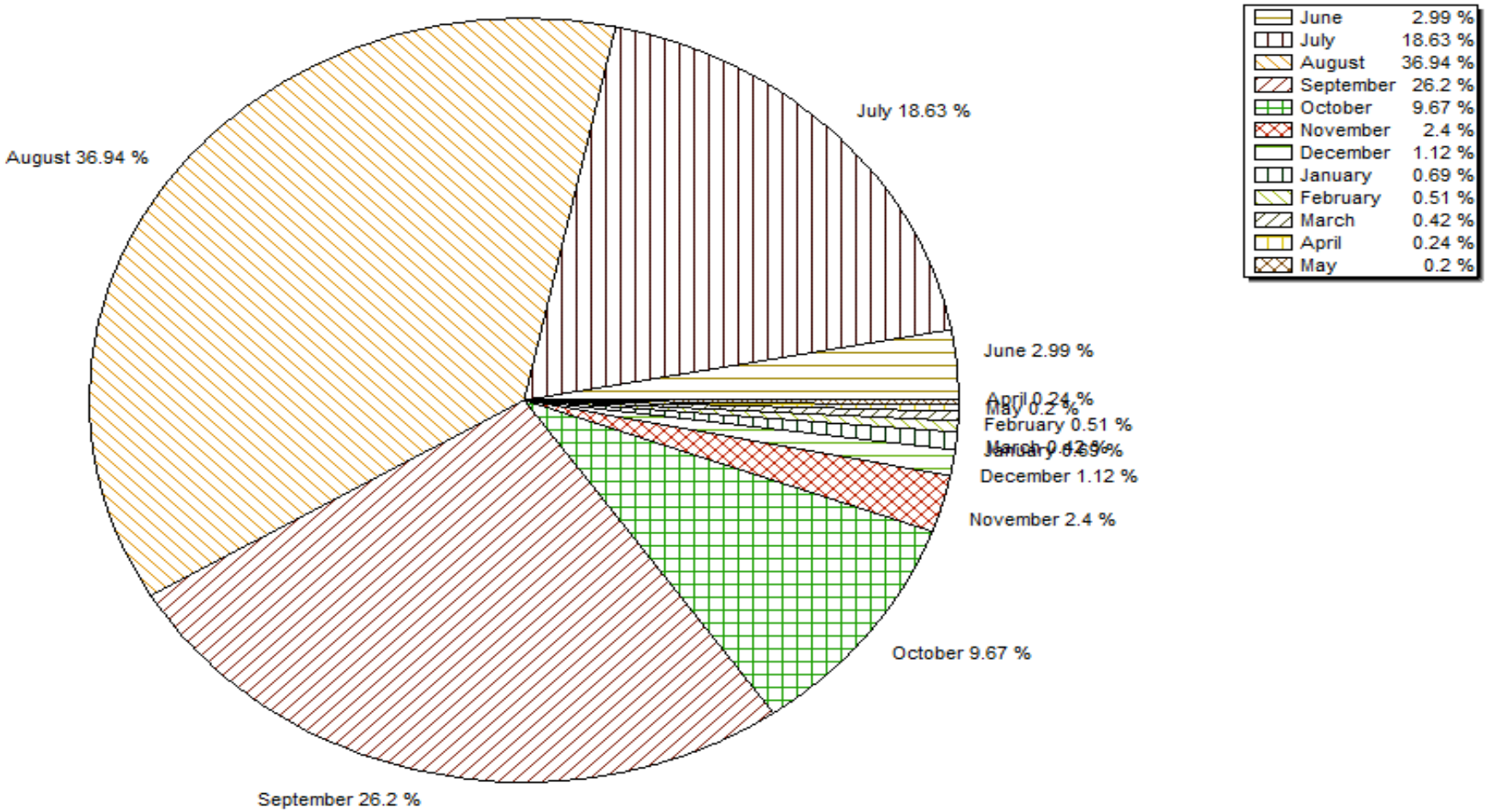
Monthly Average Runoff based on period : 1966-2016

Station Name : Perur (AG000G7)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 1, Bhadrachalam



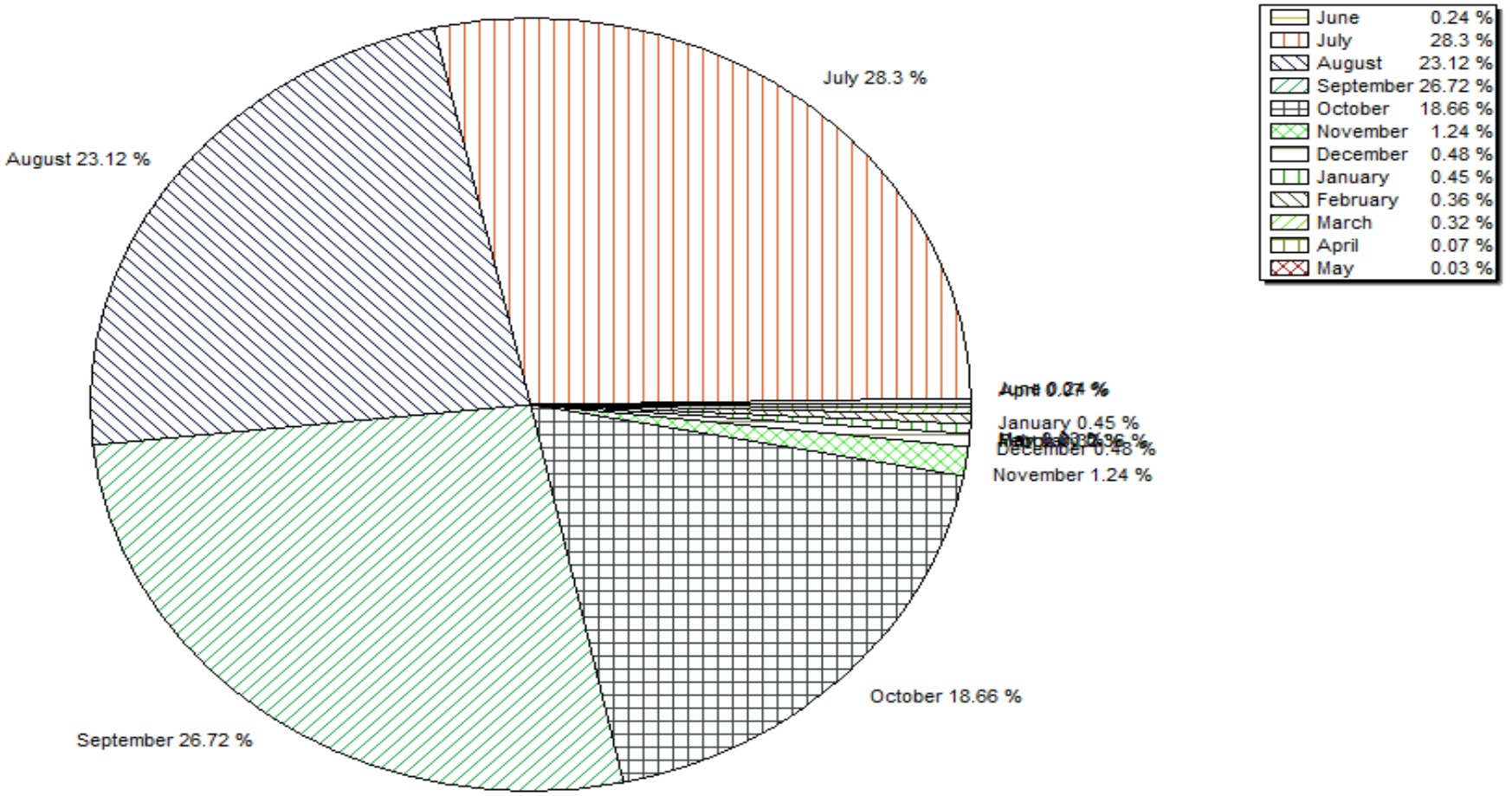
Monthly Runoff for the Year : 2016-2017

Station Name : Perur (AG000G7)

Local River : Godavari

Division : Lower Godavari Div., Hyderabad

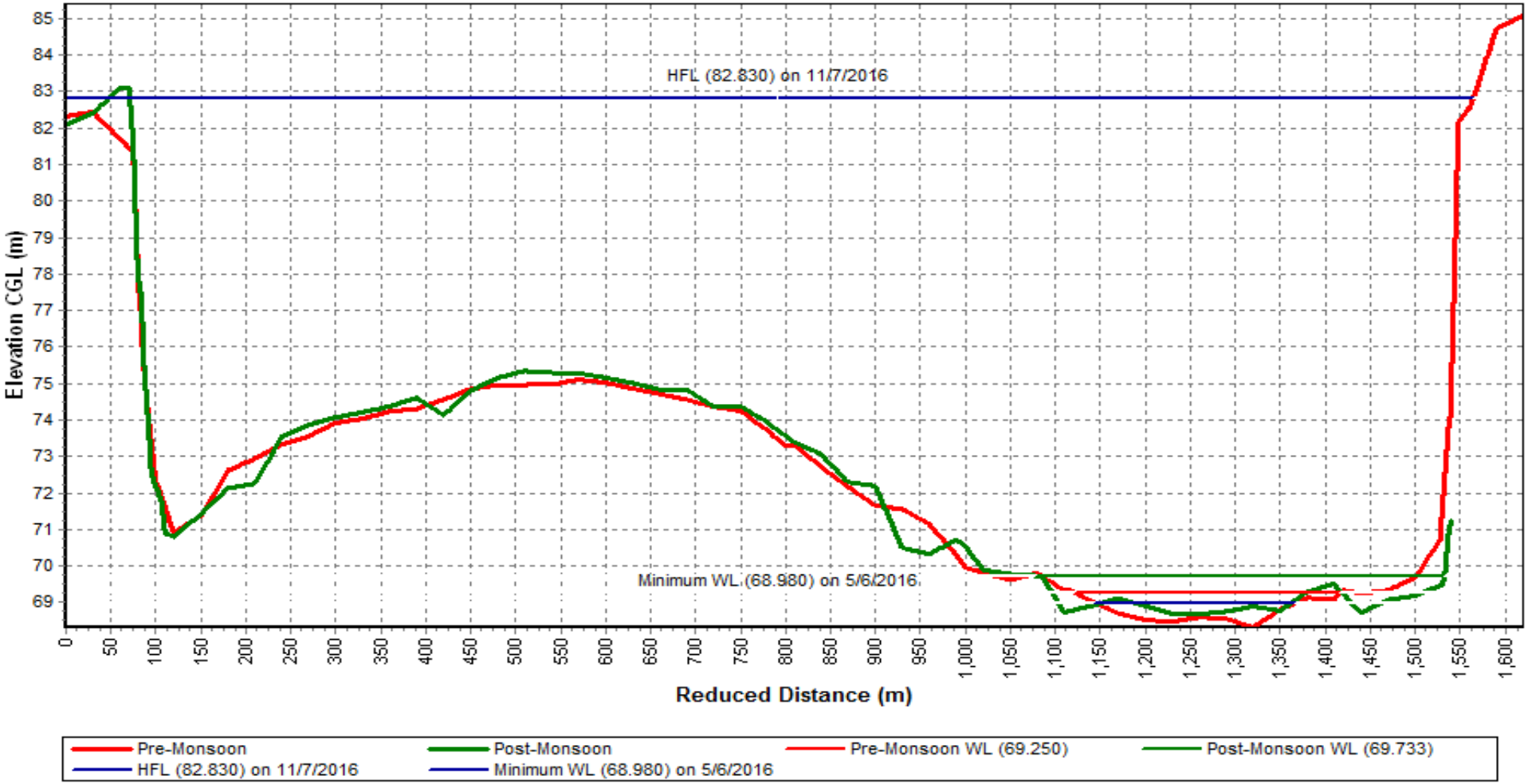
Sub-Division : Lower Godavari 1, Bhadrachalam



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

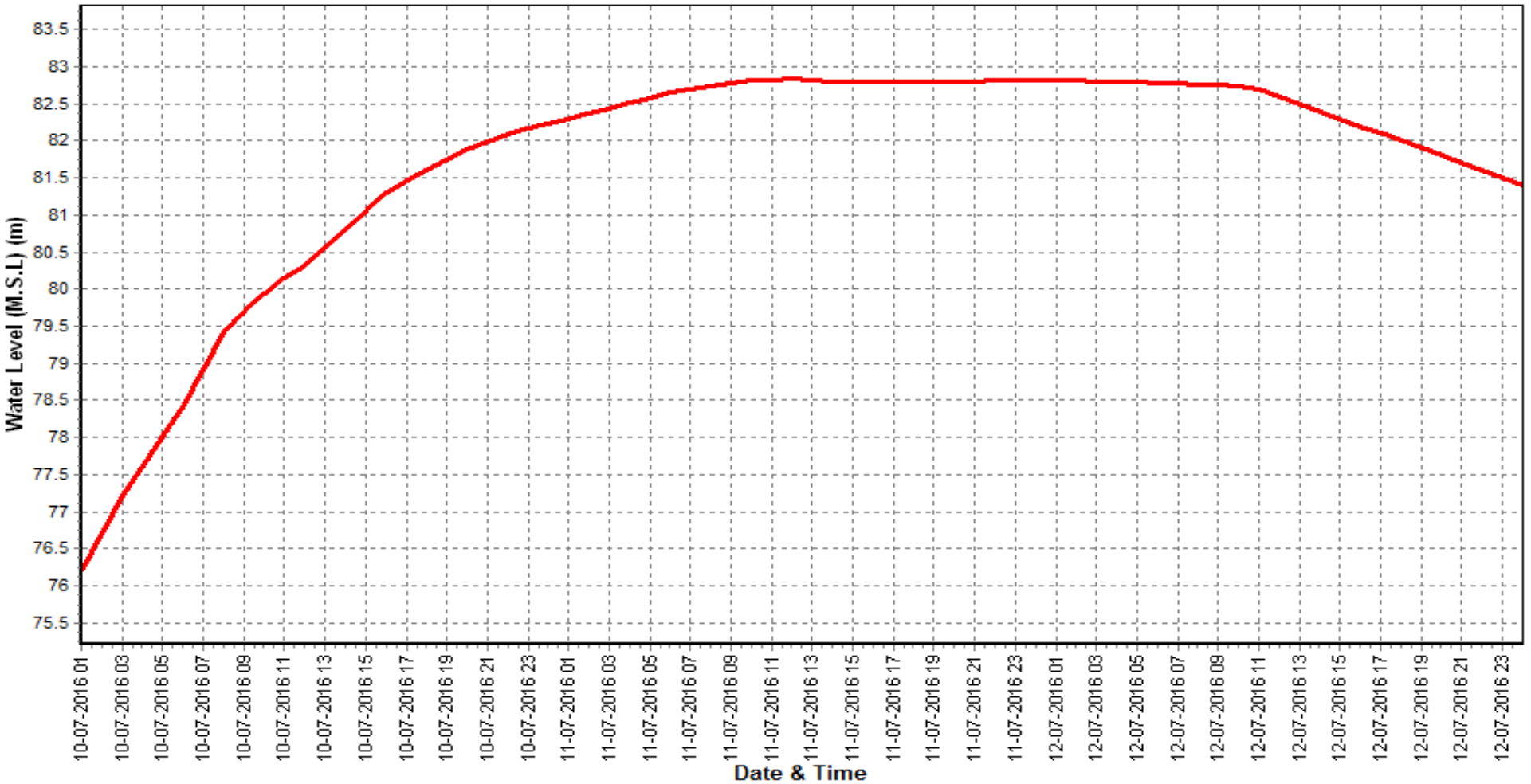
Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

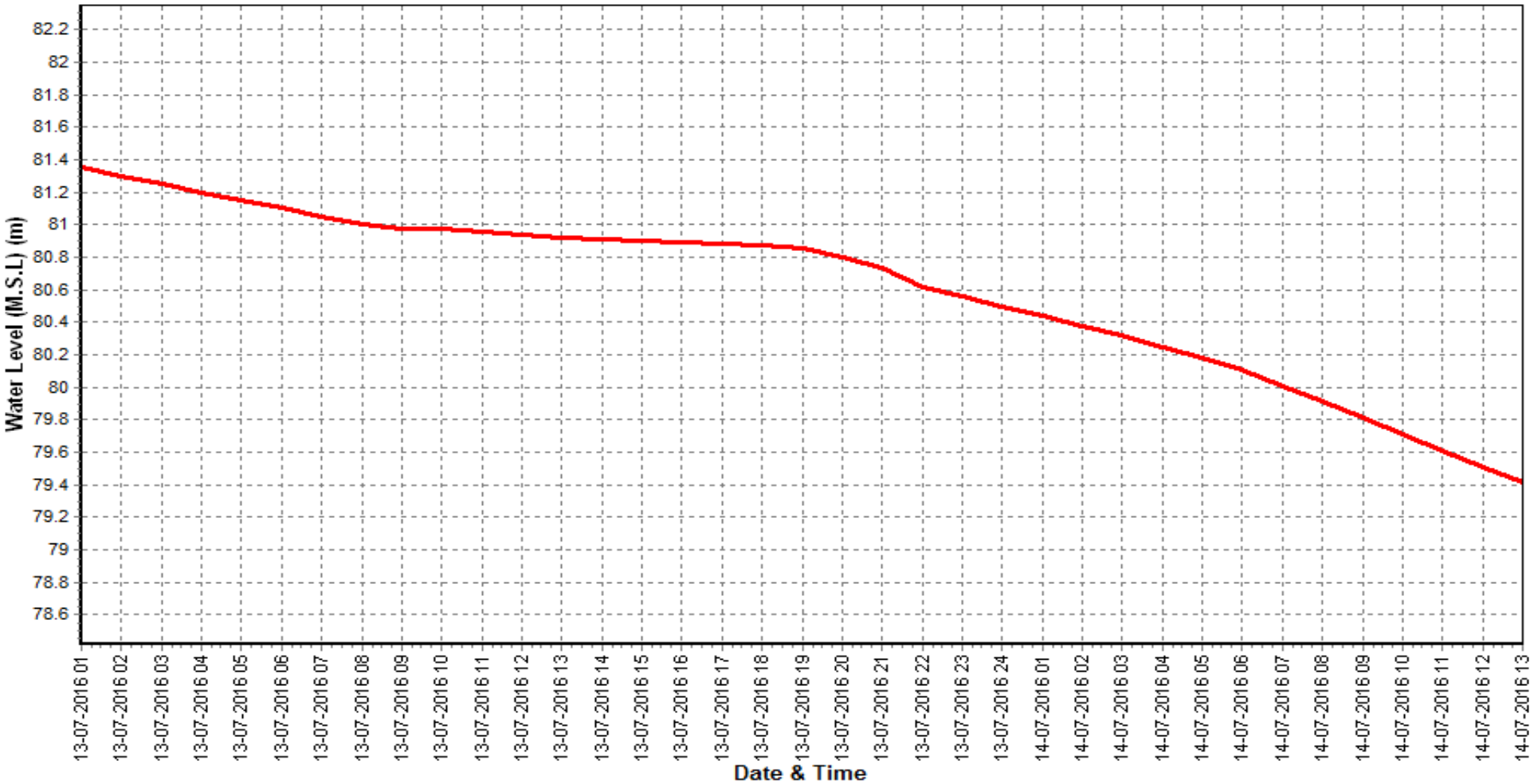


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**

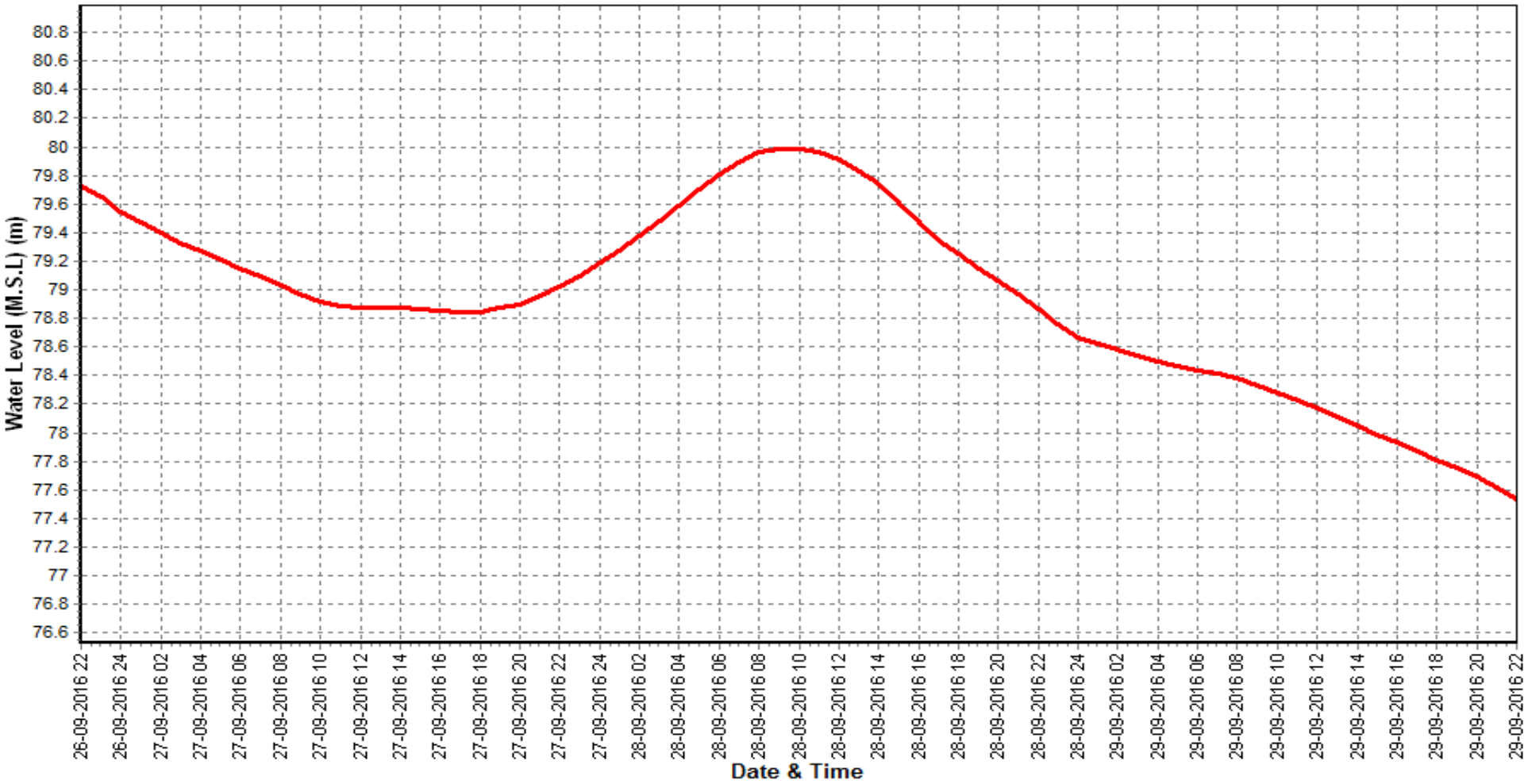


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Perur (AG000G7) **Division : Lower Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Pathagudem**	**Code**	**:**	**AGG00B5**
State	:	Chhattisgarh	District		Dantewara
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Indravathi
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	40000 Sq. Km.	Bank	:	Left
Latitude	:	18°49'00"	Longitude	:	80°21'00"
Zero of Gauge (m)	:	85.75 (m.s.l)	20.07.1964		
		Opening Date	Closing Date		
Gauge	:	01.07.1964	**HFL During 2016-17**	**:**	**99.35**
			Corres.Discharge	**:**	**6311.025 Cumecs(Estimated)**
Discharge	:	20.07.1964	**Date& Time of**	**:**	**11.07.2016**
			Occurance	**:**	**06:00**
Sediment	:	21.07.1965			
Water Quality	:	01.01.1972			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	7587	94.465	02.09.1965	3.520	86.200	31.05.1966
1966-1967	19718	99.810	05.09.1966	2.059	86.155	10.06.1966
1967-1968	16293	97.620	04.08.1967	5.359	86.355	12.06.1967
1968-1969	9340	95.085	15.09.1968	9.200	86.350	10.05.1969
1969-1970	17960	98.960	01.08.1969	11.79	86.300	25.05.1970
1970-1971	12182	96.400	29.08.1970	16.70	86.375	13.04.1971
1971-1972	6563	93.460	05.09.1971	6.799	86.305	30.05.1972
1972-1973	15155	97.638	05.07.1972	5.627	86.250	08.06.1972
1973-1974	13930	97.275	14.07.1973	6.695	86.330	03.06.1973
1974-1975	10302	95.490	11.08.1974	3.803	86.260	30.05.1975
1975-1976	15036	97.230	10.09.1975	4.095	86.265	02.06.1975
1976-1977	24862	101.958	21.07.1976	12.31	86.485	19.06.1976
1977-1978	14517	97.475	23.08.1977	15.61	86.385	15.06.1977
1978-1979	18461	98.880	16.08.1978	7.530	86.325	06.06.1978
1979-1980	16606	98.698	04.08.1979	6.400	86.335	02.05.1980
1980-1981	11190	95.915	02.08.1980	3.208	86.390	03.06.1980
1981-1982	18015	98.735	10.08.1981	3.899	86.490	07.06.1981
1982-1983	10045	94.940	14.08.1982	2.900	86.355	07.05.1983
1983-1984	12062	96.850	20.08.1983	0.360	86.530	30.05.1984
1984-1985	12706	96.430	02.08.1984	0.700	86.525	02.06.1984
1985-1986	5880	94.080	08.08.1985	4.906	86.660	27.04.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	32831	102.900	15.08.1986	4.800	86.660	08.06.1986
1987-1988	7297	94.490	29.08.1987	3.795	86.650	28.04.1988
1988-1989	9227	95.525	30.07.1988	3.757	86.505	31.05.1989
1989-1990	11316	96.775	23.08.1989	2.225	86.500	01.06.1989
1990-1991	31462	103.350	23.08.1990	10.90	86.440	27.05.1991
1991-1992	9081	96.400	31.07.1991	6.076	86.420	01.05.1992
1992-1993	14075	98.010	16.08.1992	4.836	86.195	27.04.1993
1993-1994	5183	93.380	04.08.1993	1.963	86.130	15.05.1994
1994-1995	20800	101.440	12.07.1994	2.566	86.150	03.06.1994
1995-1996	15679	99.175	25.07.1995	6.083	86.260	29.05.1996
1996-1997	4564	92.830	23.07.1996	5.611	86.240	08.06.1996
1997-1998	10803	96.090	23.08.1997	4.947	86.200	18.06.1997
1998-1999	5063	93.265	14.09.1998	2.193	86.160	02.05.1999
1999-2000	7969	94.630	02.09.1999	2.613	86.590	29.05.2000
2000-2001	9842	95.310	30.08.2000	1.045	86.480	28.05.2001
2001-2002	25077	101.150	21.08.2001	0.778	86.450	05.06.2001
2002-2003	11343	96.690	25.08.2002	0.290	86.220	31.05.2003
2003-2004	14072	97.010	24.08.2003	0.000	86.240	17.06.2003
2004-2005	12862	97.830	23.08.2004	1.819	86.470	31.05.2005
2005-2006	13753	97.550	14.09.2005	0.844	86.360	16.06.2005
2006-2007	35392	103.500	05.08.2006	2.850	86.250	31.05.2007
2007-2008	16810	99.010	08.08.2007	0.988	86.260	31.05.2008
2008-2009	12703	96.185	30.07.2008	0.100	86.150	31.05.2009
2009-2010	10446	95.235	28.08.2009	0.000	86.150	02.06.2009
2010-2011	25504	102.450	07.08.2010	3.964	86.420	15.06.2010
2011-2012	10853	96.160	02.09.2011	0.436	86.250	31.05.2012
2012-2013	13358	97.160	20.08.2012	0.231	86.240	08.06.2012
2013-2014	19496	99.770	01.08.2013	1.086	86.150	05.06.2013
2014-2015	23065	100.110	07.09.2014	2.580	86.450	15.06.2014
2015-2016	17670	97.560	22.06.2015	0.172	86.330	16.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	86.750	11.92 #	89.890	517.5 *	89.540	425.3 *	91.350	997.9 *	91.550	1076 *	87.960	120.1 *
2	86.740	11.49 #	94.820	2750 *	90.900	833.5 *	91.360	1002 *	91.670	1124 *	87.960	120.1 *
3	86.730	11.07 #	91.450	1036 *	92.940	1695 *	90.990	865.2 *	91.320	986.5 *	87.950	118.8 *
4	86.750	11.92 #	90.610	735.3 *	92.190	1344 *	90.750	781.9 *	90.770	788.7 *	87.930	116.1 *
5	86.760	12.36 *	90.180	600.7 *	92.190	1344 *	90.600	732.0 *	90.150	591.8 *	87.920	114.8 *
6	86.740	11.49 #	89.790	490.3 *	95.750	3364 *	90.280	630.8 *	89.710	469.0 *	87.870	108.3 *
7	86.780	13.25 #	89.770	484.9 *	95.670	3309 *	89.970	539.9 *	89.510	417.8 *	87.840	104.5 *
8	86.870	14.12	89.320	371.8 *	95.350	3093 *	89.730	474.3 *	90.840	812.7 *	87.800	99.50 *
9	87.035	23.65	88.950	289.9 *	93.070	1760 *	89.410	393.3 *	91.400	1017 *	87.790	98.27 *
10	86.760	11.77	96.804	4133 *	91.610	1100 *	89.210	346.4 *	92.120	1313 *	87.760	94.64 *
11	86.690	9.456 *	99.280	6245 *	90.780	792.1 *	94.550	2583 *	92.260	1375 *	87.740	92.25 *
12	86.660	8.330 *	98.300	5358 *	90.150	591.8 *	94.770	2719 *	91.130	915.7 *	87.720	89.90 *
13	86.940	21.55 #	94.500	2553 *	90.240	618.7 *	94.100	2316 *	90.350	652.3 *	87.690	86.42 *
14	86.825	15.39 #	91.910	1223 *	89.970	539.9 *	93.990	2253 *	89.770	484.9 *	87.660	83.01 *
15	86.590	5.975 #	90.590	728.7 *	89.840	503.8 *	92.590	1526 *	89.480	410.3 *	87.650	81.89 *
16	86.570	5.739	89.950	534.3 *	91.050	886.7 *	92.380	1429 *	89.170	337.4 *	87.640	80.78 *
17	86.540	3.964	89.680	461.1 *	90.730	775.2 *	91.660	1120 *	89.020	304.6 *	87.630	79.67 *
18	86.955	18.87	89.660	455.9 *	90.310	640.0 *	91.030	879.5 *	88.800	259.5 *	87.620	78.57 *
19	87.070	29.74 *	89.750	479.6 *	90.120	583.0 *	90.370	658.5 *	88.680	236.4 *	87.590	75.32 *
20	87.230	29.10	89.480	410.3 *	89.670	458.5 *	90.150	591.8 *	88.570	216.2 *	87.560	72.14 *
21	87.330	32.04	89.350	378.9 *	89.290	364.8 *	90.800	799.0 *	88.480	200.3 *	87.530	69.02 *
22	87.340	33.92	90.350	652.3 *	88.960	292.0 *	91.050	886.7 *	88.360	180.0 *	87.510	66.98 *
23	87.265	44.44 #	90.300	636.9 *	88.740	247.9 *	90.710	768.5 *	88.290	168.7 *	87.500	65.97 *
24	87.300	47.38 #	91.150	923.1 *	88.580	218.0 *	90.270	627.8 *	88.240	160.8 *	87.490	64.97 *
25	87.190	38.44 #	90.730	775.2 *	88.780	255.6 *	90.380	661.6 *	88.200	154.6 *	87.490	64.97 *
26	87.140	34.68 *	90.600	732.0 *	88.610	223.4 *	90.270	627.8 *	88.160	148.6 *	87.470	62.99 *
27	87.050	28.40 #	90.370	658.5 *	89.890	517.5 *	90.980	861.7 *	88.120	142.7 *	87.450	61.04 *
28	87.125	33.59 #	90.100	577.2 *	91.520	1064 *	92.360	1420 *	88.080	136.8 *	87.440	44.57
29	87.450	61.04 *	89.590	437.9 *	92.250	1370 *	91.390	1013 *	88.080	136.8 *	87.430	42.82
30	88.790	257.6 *	89.750	479.6 *	91.160	926.7 *	91.800	1177 *	88.020	128.4 *	87.230	28.31
31			89.210	346.4 *	91.000	868.8 *			87.990	124.2 *		
Ten-Daily Mean												
I Ten-Daily	86.792	13.30	91.158	1141	92.921	1827	90.365	676.4	90.904	859.6	87.878	109.5
II Ten-Daily	86.807	14.81	92.310	1845	90.286	639.0	92.559	1608	89.723	519.2	87.650	82.00
III Ten-Daily	87.398	61.15	90.136	599.8	89.889	577.2	91.001	884.3	88.184	152.9	87.454	57.16
Monthly												
Min.	86.540	3.964	88.950	289.9	88.580	218.0	89.210	346.4	87.990	124.2	87.230	28.31
Max.	88.790	257.6	99.280	6245	95.750	3364	94.770	2719	92.260	1375	87.960	120.1
Mean	86.999	29.76	91.167	1176	90.995	1000	91.308	1056	89.558	499	87.661	82.89

Annual Runoff in MCM = 10529 Annual Runoff in mm = 263

Peak Observed Discharge = 99.05 cumecs on 01-12-2016 Corres. Water Level :87.22 m

Lowest Observed Discharge = 1.429 cumecs on 01-05-2017 Corres. Water Level :86.52 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	87.220	99.05	86.900	44.01 *	86.900	20.46	86.710	9.710	86.620	4.649	86.520	1.429
2	87.200	95.54	86.900	38.79	86.880	19.23	86.710	9.064	86.610	4.648 *	86.520	1.771
3	87.180	91.18	86.890	39.52	86.870	18.73	86.710	8.647	86.610	3.997	86.520	2.161
4	87.140	91.14 *	86.890	36.78	86.850	18.88	86.710	8.074	86.610	3.821	86.520	1.858
5	87.120	81.04	86.890	37.78	86.860	18.88 *	86.710	8.074 *	86.610	3.821 *	86.520	1.742
6	87.110	78.98	86.880	35.49	86.860	18.64	86.710	7.982	86.610	3.807	86.520	1.953
7	87.100	76.86	86.870	34.18	86.850	17.77	86.730	11.81	86.600	3.665	86.510	1.953 *
8	87.080	76.29	86.870	34.18 *	86.850	17.46	86.750	12.74	86.600	3.605	86.570	1.709
9	87.060	74.08	86.860	32.91	86.840	18.65	86.720	11.00	86.600	3.605 *	86.560	1.728
10	87.060	74.08 *	86.850	29.53	86.830	18.01	86.730	11.71	86.600	3.538	86.570	1.728 *
11	87.060	74.08 *	86.860	31.75	86.810	18.00 *	86.740	11.71 *	86.600	3.518	86.580	1.996
12	87.050	72.09	87.020	28.08	86.790	18.00 *	86.730	11.71 *	86.600	3.502	86.600	2.973
13	87.030	72.07 *	87.010	26.50	86.780	16.20	86.720	12.18	86.590	3.438	86.620	2.974 *
14	87.010	66.46	87.000	26.49 *	86.770	15.06	86.720	11.97	86.590	3.438 *	86.620	2.974 *
15	86.990	61.41	86.975	26.49 *	86.770	14.34	86.710	11.90	86.590	3.037	86.630	2.576
16	86.990	59.31	86.980	24.42	86.760	14.16	86.700	11.78	86.590	3.037 *	86.640	3.493
17	86.980	57.67	87.010	26.22	86.760	13.85	86.690	11.47	86.590	2.875	86.640	3.068
18	86.990	57.68 *	87.060	29.23	86.760	13.32	86.690	12.06	86.580	2.794	86.620	2.813
19	86.990	62.86	87.060	28.64	86.760	13.32 *	86.690	12.06 *	86.580	2.727	86.620	2.734
20	87.010	67.75	87.050	28.04	86.750	13.20	86.680	9.552	86.580	2.922	86.620	2.651
21	87.000	64.20	87.040	27.49	86.740	14.30	86.680	9.331	86.580	2.938	86.610	2.651 *
22	86.990	61.06	87.030	27.49 *	86.730	12.58	86.680	8.047	86.570	2.680	86.600	2.531
23	86.970	55.96	87.010	27.46	86.730	11.66	86.670	7.648	86.570	2.680 *	86.600	2.486
24	86.950	54.08	86.990	26.22	86.720	11.70	86.670	7.238	86.570	1.802	86.590	2.349
25	86.930	54.07 *	86.970	26.31	86.720	11.60	86.660	6.811	86.560	1.531	86.580	2.200
26	86.910	41.99	86.960	26.31 *	86.720	11.60 *	86.660	6.811 *	86.550	1.857	86.580	2.467
27	86.910	45.50	86.950	24.53	86.710	11.68	86.650	6.388	86.540	1.764	86.610	2.747
28	86.930	50.50	86.940	24.19	87.250	10.94	86.650	5.774	86.540	1.625	86.640	2.748 *
29	86.920	47.82	86.940	24.19 *			86.650	5.774 *	86.530	1.523	86.680	3.474
30	86.910	45.31	86.940	22.83			86.650	5.774 *	86.520	1.523 *	86.750	5.381
31	86.900	44.01	86.920	21.70			86.640	5.773 *			86.790	5.575
Ten-Daily Me												
I Ten-Daily	87.127	83.82	86.880	36.32	86.859	18.67	86.719	9.881	86.607	3.916	86.533	1.803
II Ten-Daily	87.010	65.14	87.003	27.59	86.771	14.94	86.707	11.64	86.589	3.129	86.619	2.825
III Ten-Daily	86.938	51.32	86.972	25.34	86.790	12.01	86.660	6.852	86.553	1.992	86.639	3.146
Monthly												
Min.	86.900	41.99	86.850	21.70	86.710	10.94	86.640	5.773	86.520	1.523	86.510	1.429
Max.	87.220	99.05	87.060	44.01	87.250	20.46	86.750	12.74	86.620	4.649	86.790	5.575
Mean	87.022	66.26	86.952	29.6	86.808	15.44	86.694	9.373	86.583	3.012	86.598	2.609

Peak Computed Discharge = 6245 cumecs on 11-07-2016 Corres. Water Level :99.28 m

Lowest Computed Discharge = 1.523 cumecs on 30-04-2017 Corres. Water Level :86.52 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

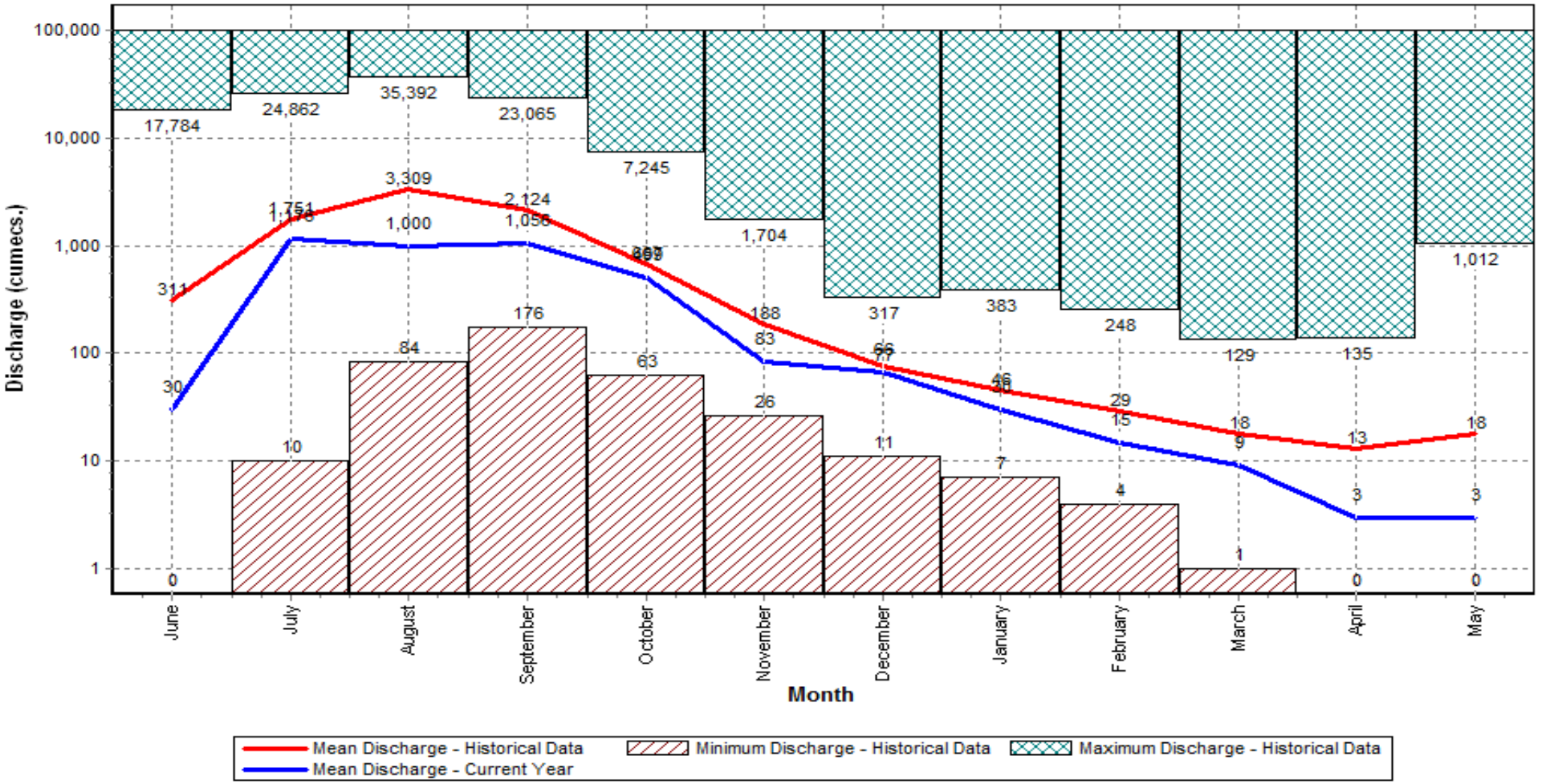
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Pathagudem (AGG00B5) | **Data considered : 1965-2017** | **Division : Lower Godavari Div., Hyderabad**

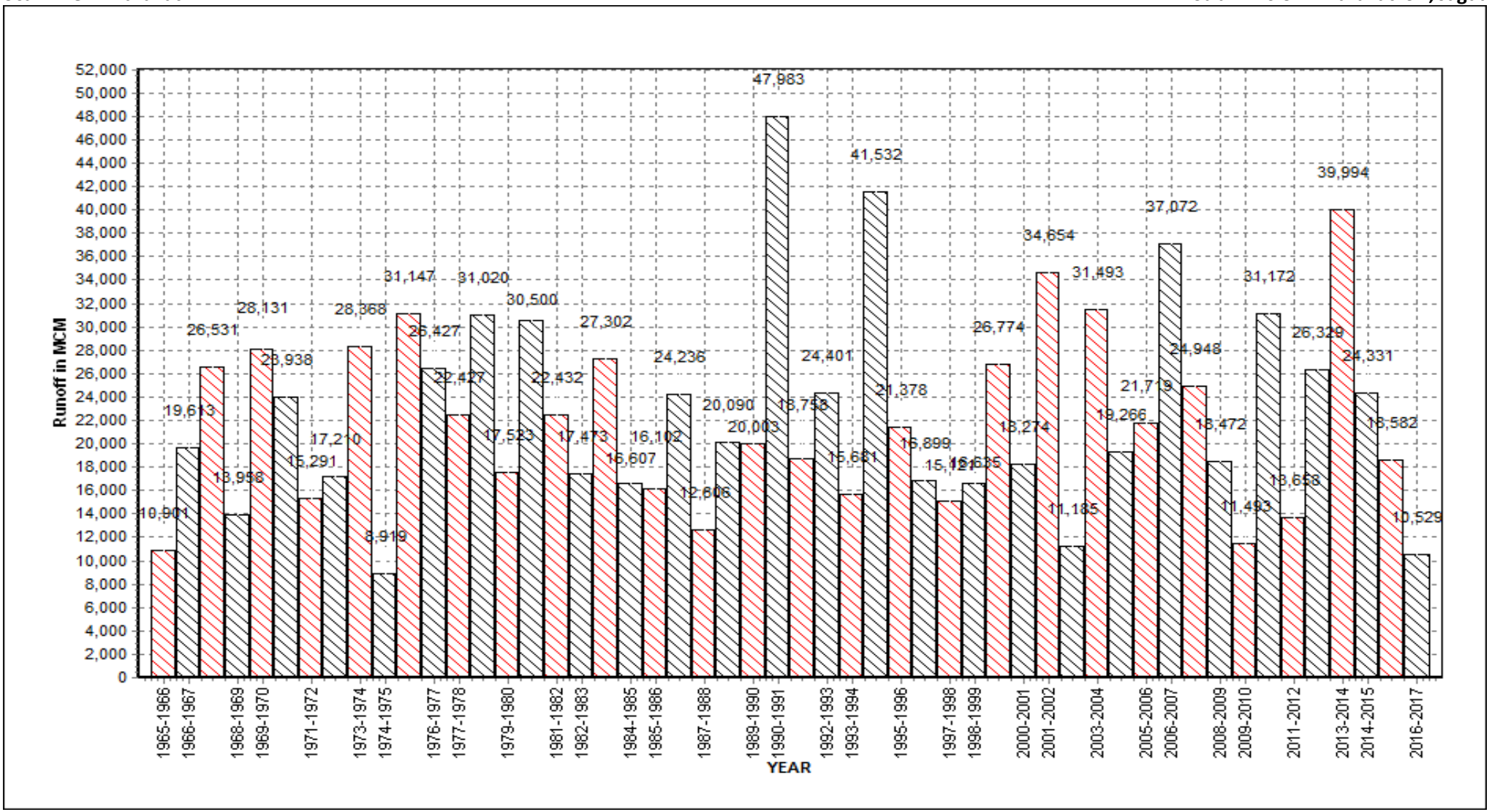
Local River : Indravathi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1965 - 2017

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

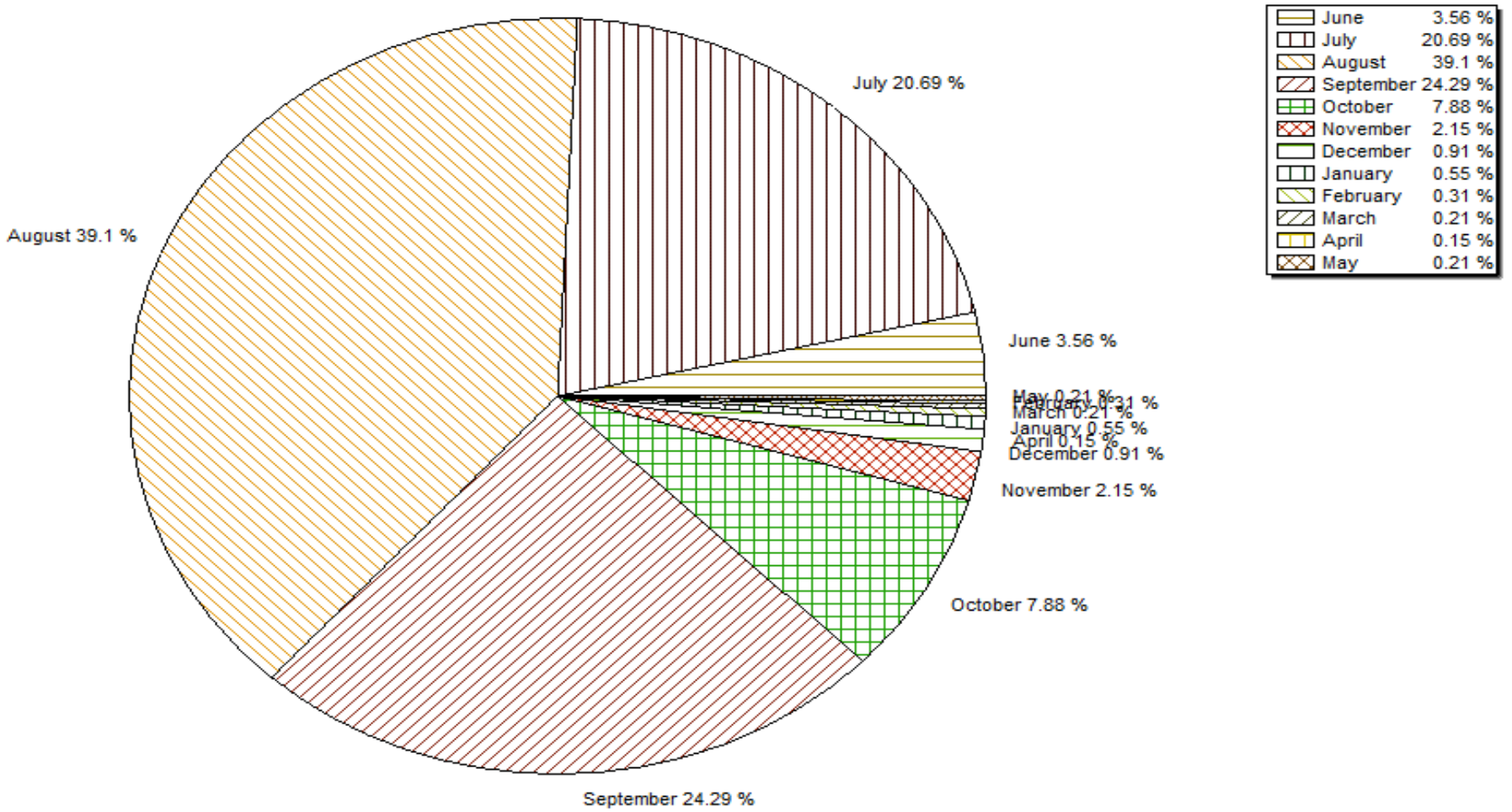
Monthly Average Runoff based on period : 1965-2016

Station Name : Pathagudem (AGG00B5)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



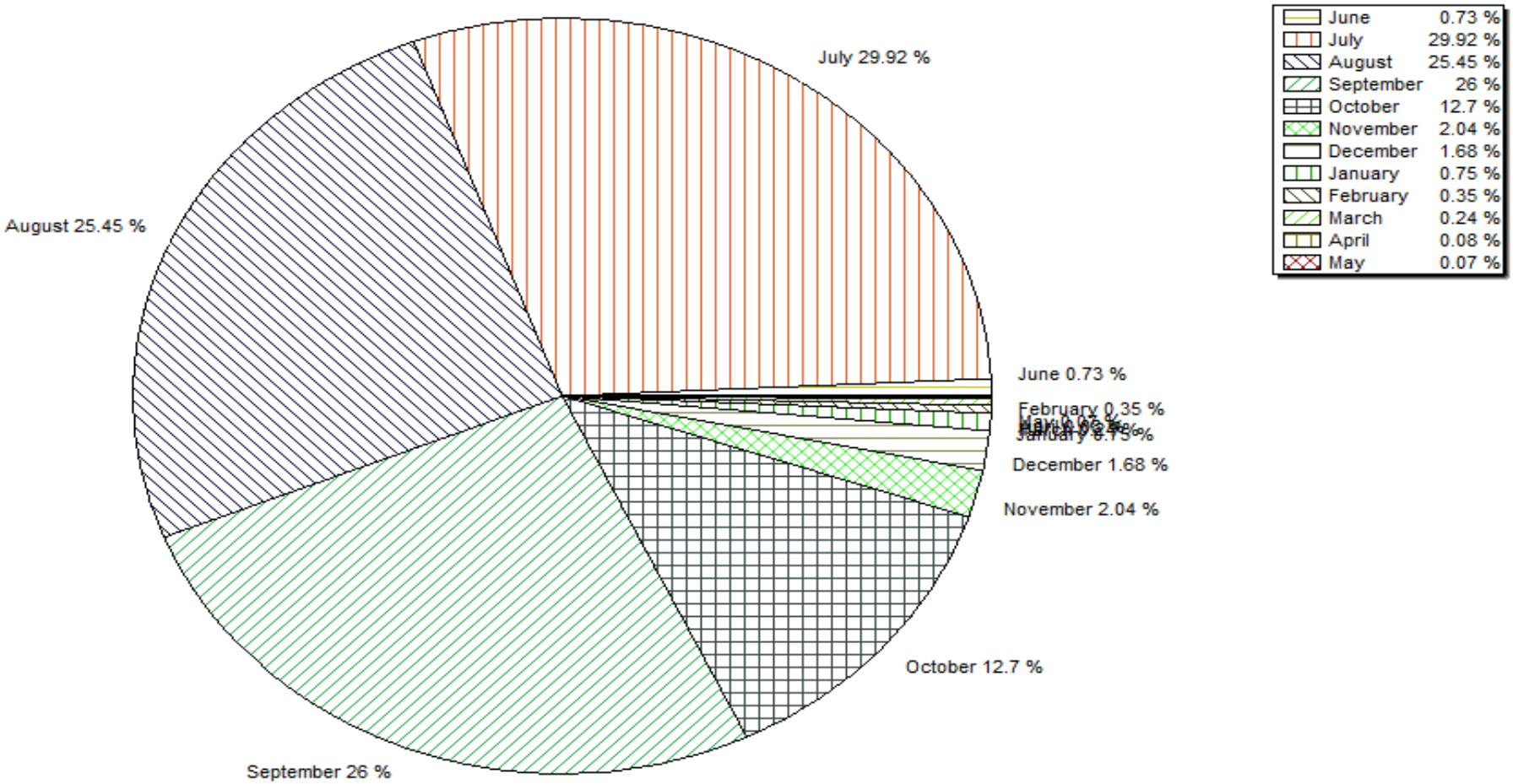
Monthly Runoff for the Year : 2016-2017

Station Name : Pathagudem (AGG00B5)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

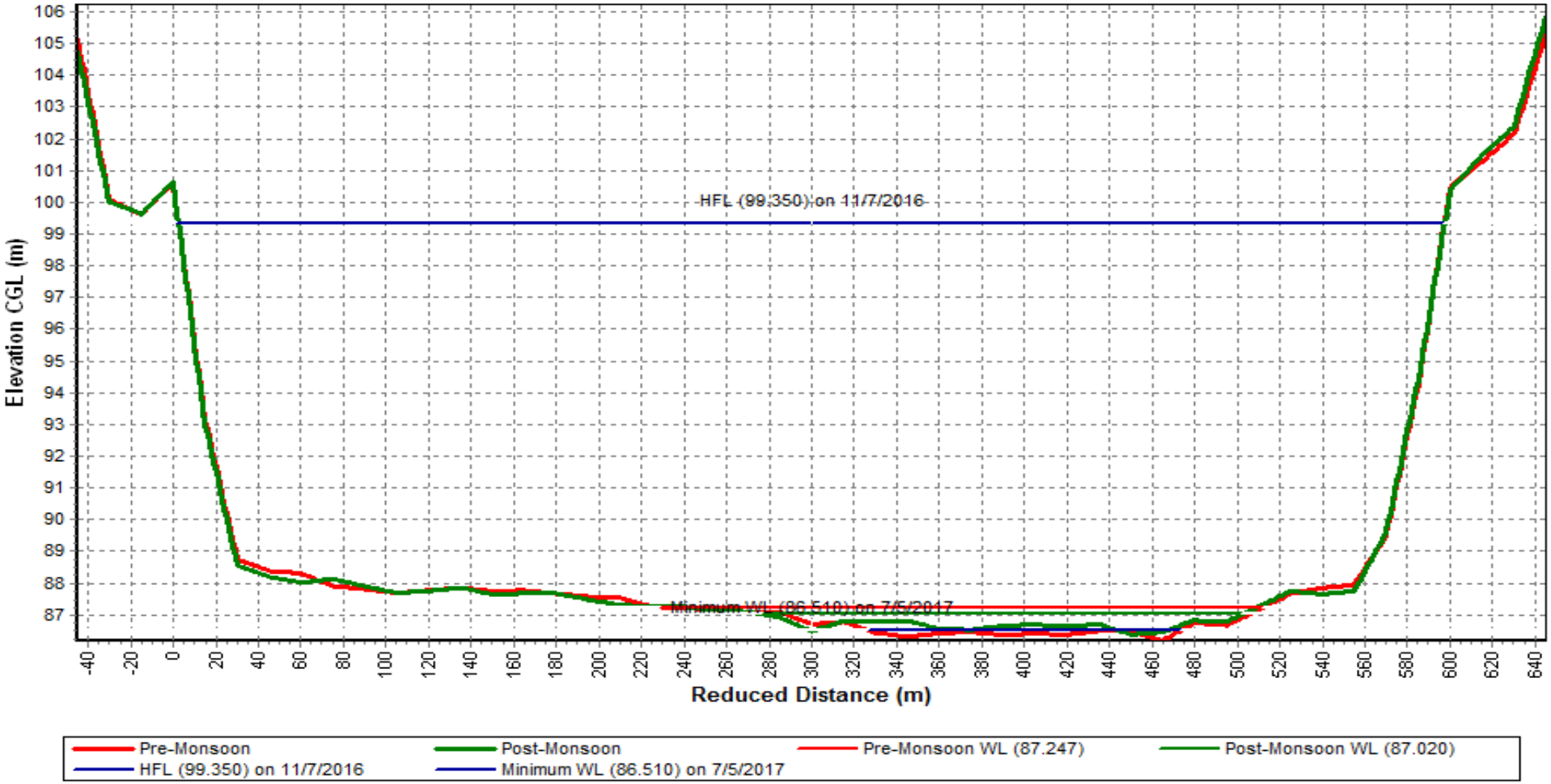
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

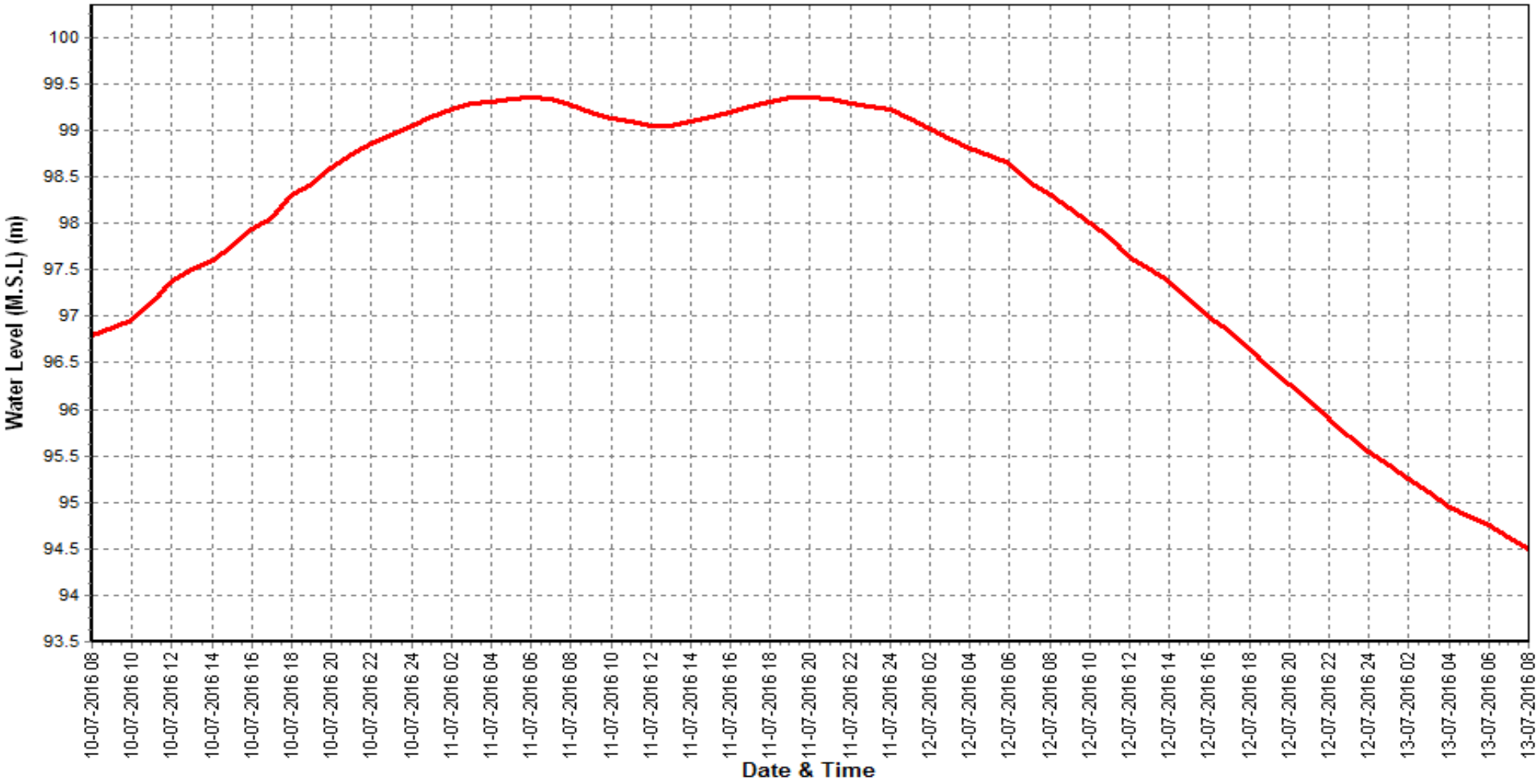
Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

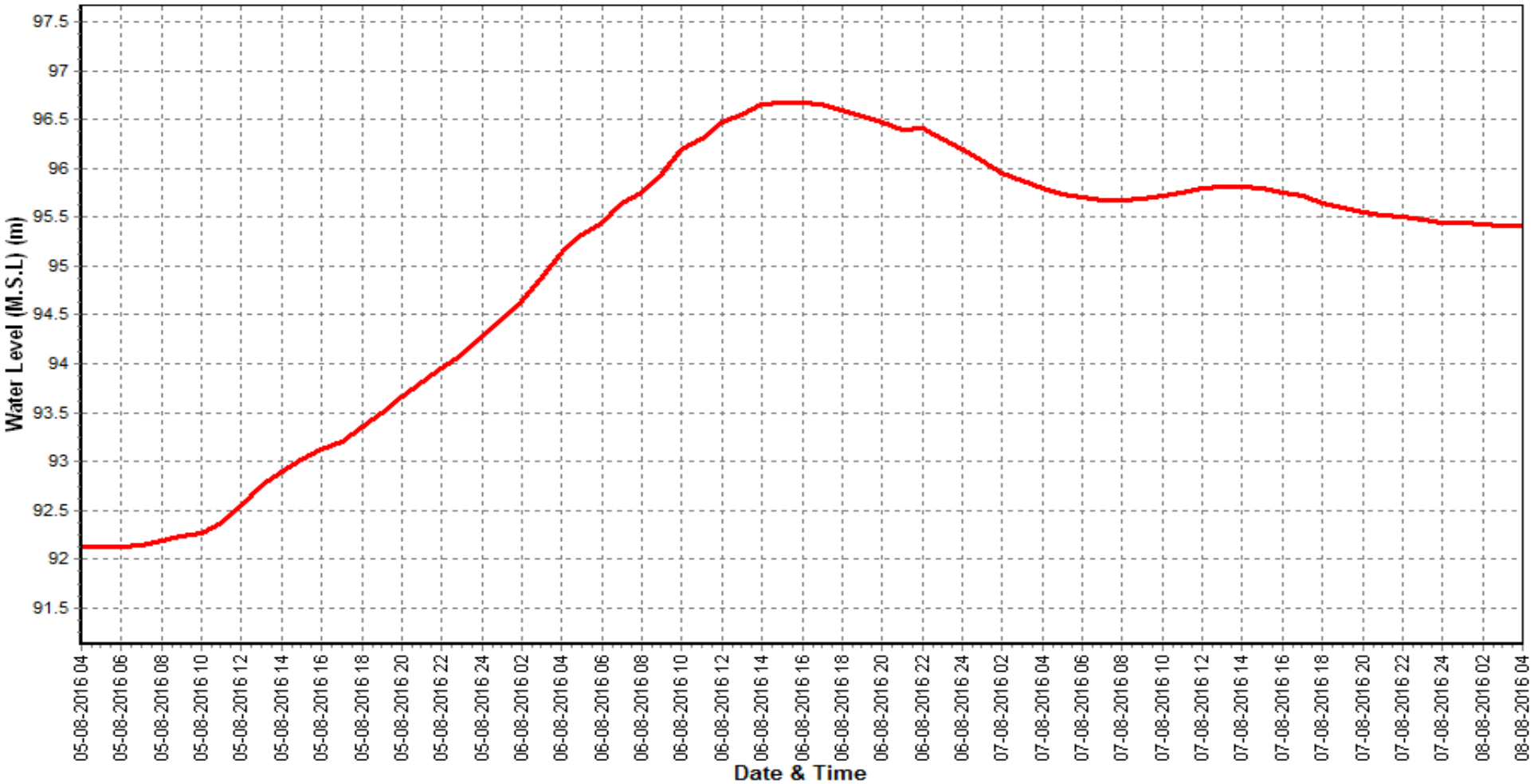


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

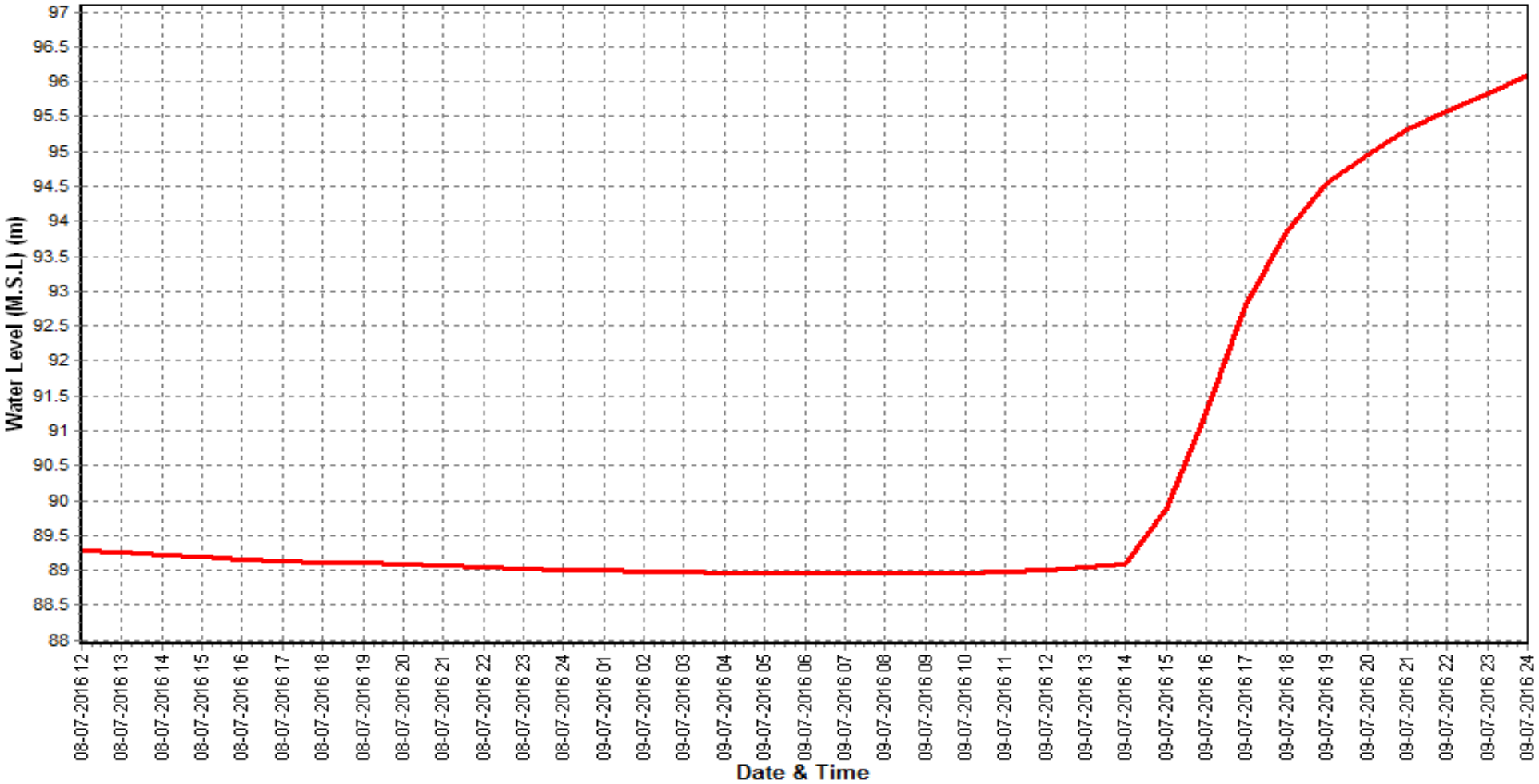


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Pathagudem (AGG00B5) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Tumnar**	**Code**	**:**	**AGG60B1**
State	:	Chhattisgarh	District		Dantewara
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	Dantewara
Sub-Sub Tributary	:	-	Local River	:	Dantewara
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	1700 Sq. Km.	Bank	:	Right
Latitude	:	19°00'30"	Longitude	:	81°14'20"
Zero of Gauge (m)	:	315.007 (m.s.l)	18.03.1989		
		Opening Date	Closing Date		
Gauge	:	18.03.1989	**HFL During 2016-17**	**:**	**323.817**
			Corres.Discharge	**:**	**1391.647 Cumecs(Estimated)**
Discharge	:	09.12.1991	**Date& Time of Occurance**	**:**	**10.09.2016 23:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1992-1993	1677	323.087	31.08.1992	0.194	317.342	15.05.1993
1993-1994	514.9	320.767	08.07.1993	0.000	317.397	27.06.1993
1994-1995	1683	322.967	30.08.1994	1.396	317.347	19.04.1995
1995-1996	1279	322.627	02.09.1995	0.000	317.317	10.06.1995
1996-1997	1329	322.707	12.08.1996	0.837	317.547	26.05.1997
1997-1998	466.6	320.452	29.08.1997	0.109	317.567	29.05.1998
1998-1999	827.7	321.622	11.07.1998	0.000	317.567	09.06.1998
1999-2000	991.1	322.457	24.07.1999	0.063	317.497	10.06.1999
2000-2001	534.3	320.867	30.08.2000	0.188	317.427	21.05.2001
2001-2002	1179	322.617	21.08.2001	0.317	317.302	25.05.2002
2002-2003	658.4	321.682	24.08.2002	0.000	317.217	30.05.2003
2003-2004	1330	322.527	27.08.2003	0.226	317.217	14.06.2003
2004-2005	3584	325.977	14.06.2004	0.523	317.417	19.05.2005
2005-2006	714.0	321.267	14.09.2005	0.000	317.347	12.04.2006
2006-2007	2757	325.207	04.08.2006	0.709	317.427	03.06.2006
2007-2008	3193	325.607	06.10.2007	0.348	316.937	26.05.2008
2008-2009	1564	323.097	29.07.2008	0.650	317.237	30.04.2009
2009-2010	599.5	321.122	31.08.2009	0.275	317.177	21.05.2010
2010-2011	1924	323.657	25.07.2010	0.463	317.287	11.06.2010
2011-2012	407.0	320.177	03.09.2011	0.443	317.357	30.05.2012
2012-2013	790.7	321.567	30.08.2012	0.417	317.377	09.06.2012

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2013-2014	1005	322.227	01.08.2013	0.672	317.367	07.06.2013
2014-2015	510.4	320.447	23.07.2014	0.000	317.237	13.04.2015
2015-2016	1289	322.437	21.06.2015	0.075	317.097	25.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Tumnar (AGG60B1) **Division : Lower Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	317.127	0.219	318.552	98.97 #	318.327	70.41	319.387	219.8	318.617	109.4	317.817	18.99 *
2	317.147	0.256	318.442	93.33	319.362	222.7	318.782	132.0	318.717	122.1 *	317.787	16.71 *
3	317.157	0.269	318.087	43.41 *	319.832	334.7	318.672	104.5	318.587	109.2	317.767	12.68
4	317.147	0.257	318.132	51.83	319.937	376.7	318.587	103.7 *	318.302	69.56	317.767	13.10
5	317.187	0.257 *	319.287	195.6	320.237	425.8	318.557	99.65 *	318.162	56.29	317.737	12.59
6	317.207	0.492	318.597	101.5	320.462	524.3	318.357	65.90	318.107	46.83	317.737	13.15 *
7	317.257	0.726	318.277	64.26 *	320.927	558.9 *	318.207	53.67	318.217	62.69	317.737	12.94
8	317.283	2.214	318.082	45.07	319.347	185.6	318.137	41.66	318.942	178.5	317.727	12.95
9	317.257	0.740	318.062	43.83	318.702	103.7	318.097	38.71	318.467	87.71 *	317.677	10.41
10	317.307	2.131	319.777	305.1 *	318.502	83.24	322.337	0.000 *	318.662	115.0	317.697	11.15
11	317.347	2.521	321.192	557.9	318.382	66.97	321.497	0.000 *	318.337	71.40 *	317.677	10.37
12	317.287	2.520 *	320.172	357.1	318.337	61.72	319.712	265.3	318.167	51.86 *	317.687	9.881 *
13	317.257	1.044	318.962	154.3	318.342	67.57	319.912	333.9	318.057	44.77	317.667	8.666 *
14	317.267	1.164	318.397	83.12	318.267	63.10 *	319.757	319.3	318.007	36.67	317.677	9.267 *
15	317.227	0.819	318.182	51.99	319.047	173.0 *	319.632	298.5	317.947	33.65	317.697	11.11
16	317.327	0.813	318.182	49.14	319.402	243.8	319.597	266.0	317.907	26.37 *	317.697	11.22
17	317.317	0.759	318.257	61.94 *	318.612	112.8	318.912	146.5	317.867	30.20	317.697	11.16
18	317.542	4.351	318.082	41.29	318.257	61.79	318.757	128.0 *	317.837	28.18	317.697	11.20
19	317.827	11.04 *	317.977	33.83	318.157	52.44	318.932	166.2	317.807	18.22 #	317.697	11.38
20	317.737	11.04	317.937	28.28	318.087	43.72	319.422	259.1	317.787	16.71 #	317.687	9.881 *
21	317.607	5.637	318.162	47.75	318.017	36.45 *	319.182	211.5	317.767	15.25 #	317.677	9.267 *
22	317.557	3.850	318.747	132.4	317.967	36.68	318.897	145.2	317.757	14.54 #	317.677	9.267 *
23	317.397	3.289	318.332	76.60	317.937	31.58	318.622	107.3	317.877	23.82 *	317.667	8.666 *
24	317.337	2.576	318.467	87.71 *	317.957	34.40	318.587	101.1	317.847	16.18	317.707	11.15 *
25	317.462	3.200	318.992	167.6	318.047	38.36	318.547	98.30 *	317.837	16.36	317.707	11.15 *
26	317.507	3.201 *	318.287	58.73	318.087	47.70	318.532	97.59	317.827	17.67	317.727	12.47 *
27	317.522	3.895	318.252	59.20	320.362	459.1	318.597	104.9	317.807	16.27	317.697	10.51 *
28	318.537	119.7	318.142	44.91	319.977	345.5 *	318.752	140.0	317.787	15.22	317.657	7.998
29	318.652	119.4	318.092	43.34	318.832	139.5	319.377	222.7	317.787	14.92	317.647	7.505 *
30	318.052	47.60	318.242	55.27	318.437	88.26	318.487	94.53	317.787	16.71 *	317.647	7.505 *
31			318.137	48.63 *	320.007	354.6			317.837	17.40		
Daily Mean												
Ten-Da	317.208	0.756	318.530	104.3	319.563	288.6	318.912	85.97	318.478	95.74	317.745	13.47
Ten-Da	317.414	3.607	318.734	141.9	318.489	94.69	319.613	218.3	317.972	35.80	317.688	10.41
Ten-D	317.763	31.23	318.350	74.75	318.693	146.5	318.758	132.3	317.811	16.76	317.681	9.549
Monthly												
Min.	317.127	0.219	317.937	28.28	317.937	31.58	318.097	0.000	317.757	14.54	317.647	7.505
Max.	318.652	119.7	321.192	557.9	320.927	558.9	322.337	333.9	318.942	178.5	317.817	18.99
Mean	317.461	11.86	318.532	105.9	318.908	175.6	319.094	145.5	318.078	48.38	317.705	11.14

Annual Runoff in MCM = 1347 Annual Runoff in mm = 792

Peak Observed Discharge = 557.9 cumecs on 11-07-2016 Corres. Water Level :321.192 m

Lowest Observed Discharge = 0.107 cumecs on 06-04-2017 Corres. Water Level :317.127 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Tumnar (AGG60B1) **Division : Lower Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	317.597	6.024	317.387	2.825 *	317.277	0.806	317.247	1.169	317.227	0.786	317.147	0.357
2	317.597	5.957	317.387	2.817	317.277	0.742	317.247	1.196	317.217	0.786 *	317.147	0.340
3	317.607	6.100	317.387	2.564	317.307	1.622	317.247	1.112	317.112	0.140	317.137	0.265
4	317.597	6.100 *	317.387	2.480	317.307	1.491	317.247	0.969	317.217	0.607	317.117	0.171
5	317.597	5.910	317.387	2.678	317.307	1.491 *	317.247	0.969 *	317.167	0.607 *	317.117	0.180
6	317.587	5.670	317.387	2.570	317.307	1.358	317.247	0.960	317.127	0.107	317.127	0.210
7	317.567	5.382	317.387	2.709	317.277	1.190	317.257	1.035	317.227	0.851	317.127	0.210 *
8	317.567	5.227	317.387	2.709 *	317.267	1.149	317.247	1.068	317.237	0.851 *	317.127	0.209
9	317.567	5.308	317.387	2.858	317.267	1.254	317.247	1.039	317.167	0.851 *	317.127	0.177
10	317.557	5.308 *	317.377	2.626	317.267	1.294	317.247	1.032	317.137	0.183	317.117	0.193 *
11	317.547	5.308 *	317.377	2.693	317.267	1.294	317.257	1.032 *	317.137	0.184	317.117	0.193
12	317.537	5.308 *	317.367	2.492	317.277	1.294 *	317.257	1.032 *	317.147	0.240	317.117	0.195
13	317.537	5.308 *	317.367	2.512	317.277	1.346	317.277	1.211	317.127	0.173	317.117	0.195 *
14	317.537	4.974	317.357	2.565	317.277	1.395	317.287	1.541	317.127	0.173 *	317.117	0.195 *
15	317.587	6.482	317.337	2.565 *	317.277	1.394	317.287	1.574	317.117	0.153	317.117	0.182
16	317.537	4.866	317.307	2.133	317.277	1.357	317.287	1.467	317.117	0.153 *	317.117	0.180
17	317.517	4.171	317.397	3.073	317.197	0.271	317.277	1.505	317.127	0.168	317.127	0.196
18	317.507	4.171 *	317.397	2.762	317.257	1.107	317.277	1.423	317.247	0.943	317.127	0.205
19	317.497	3.824	317.377	2.711	317.267	1.107 *	317.277	1.423 *	317.167	0.463	317.127	0.201
20	317.487	3.659	317.377	2.662	317.267	1.117	317.267	1.181	317.157	0.438	317.127	0.221
21	317.487	3.641	317.347	2.320	317.267	1.100	317.267	1.169	317.177	0.487	317.127	0.221 *
22	317.437	2.483	317.397	2.320 *	317.267	1.123	317.257	1.080	317.167	0.463	317.127	0.238
23	317.467	3.148	317.257	0.714	317.267	1.388	317.247	0.990	317.157	0.463 *	317.127	0.217
24	317.467	3.203	317.237	0.614	317.257	1.357	317.247	0.932	317.157	0.372	317.127	0.207
25	317.467	3.203 *	317.272	0.595	317.257	1.270	317.237	0.834	317.177	0.526	317.127	0.216
26	317.467	3.244	317.247	0.595 *	317.257	1.270 *	317.227	0.834 *	317.167	0.456	317.127	0.246
27	317.467	3.237	317.382	0.734	317.257	1.181	317.227	0.806	317.167	0.455	317.127	0.207
28	317.417	3.237 *	317.247	1.085	317.247	1.107	317.227	0.790	317.147	0.375	317.327	2.982 *
29	317.407	3.237 *	317.277	1.085 *			317.227	0.790 *	317.137	0.375 *	317.407	2.983
30	317.397	3.007	317.277	0.739			317.227	0.773	317.137	0.375 *	317.447	3.138
31	317.397	2.825	317.277	0.729			317.227	0.771			317.397	1.978
Daily												
Ten-Da	317.584	5.699	317.386	2.684	317.286	1.240	317.248	1.055	317.184	0.577	317.129	0.231
Ten-Da	317.529	4.807	317.366	2.617	317.264	1.168	317.275	1.339	317.147	0.309	317.121	0.196
Ten-D	317.443	3.133	317.293	1.048	317.259	1.225	317.238	0.888	317.159	0.435	317.224	1.148
Month												
Min.	317.397	2.483	317.237	0.595	317.197	0.271	317.227	0.771	317.112	0.107	317.117	0.171
Max.	317.607	6.482	317.397	3.073	317.307	1.622	317.287	1.574	317.247	0.943	317.447	3.138
Mean	317.516	4.501	317.346	2.082	317.271	1.21	317.253	1.087	317.163	0.44	317.160	0.545

Peak Computed Discharge = 558.9 cumecs on 07-08-2016 Corres. Water Level :320.927 m

Lowest Computed Discharge = 0.000 cumecs on 10-09-2016 Corres. Water Level :322.337 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

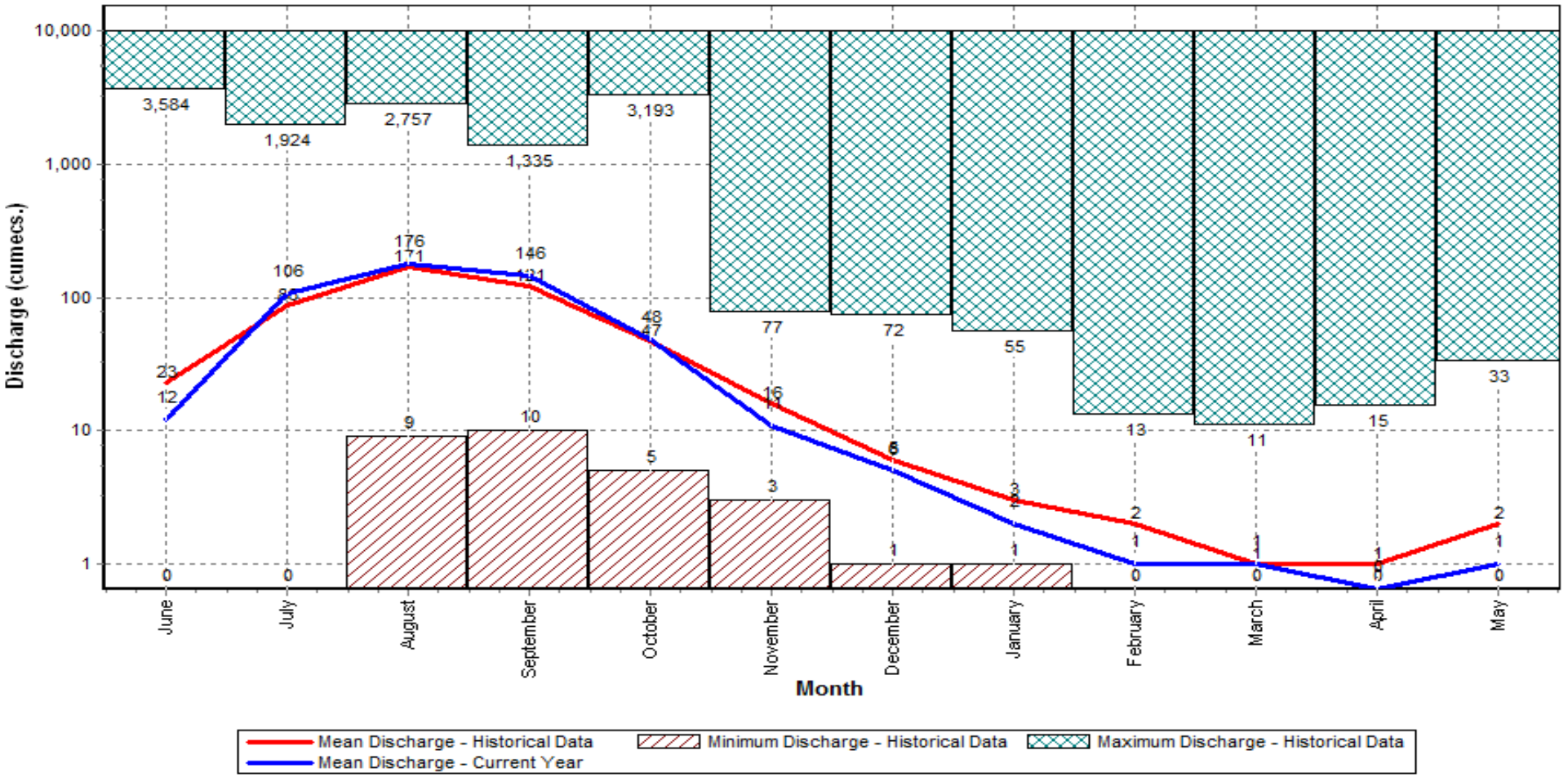
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Tumnar (AGG60B1) | **Data considered : 1992-2017** | **Division : Lower Godavari Div., Hyderabad**

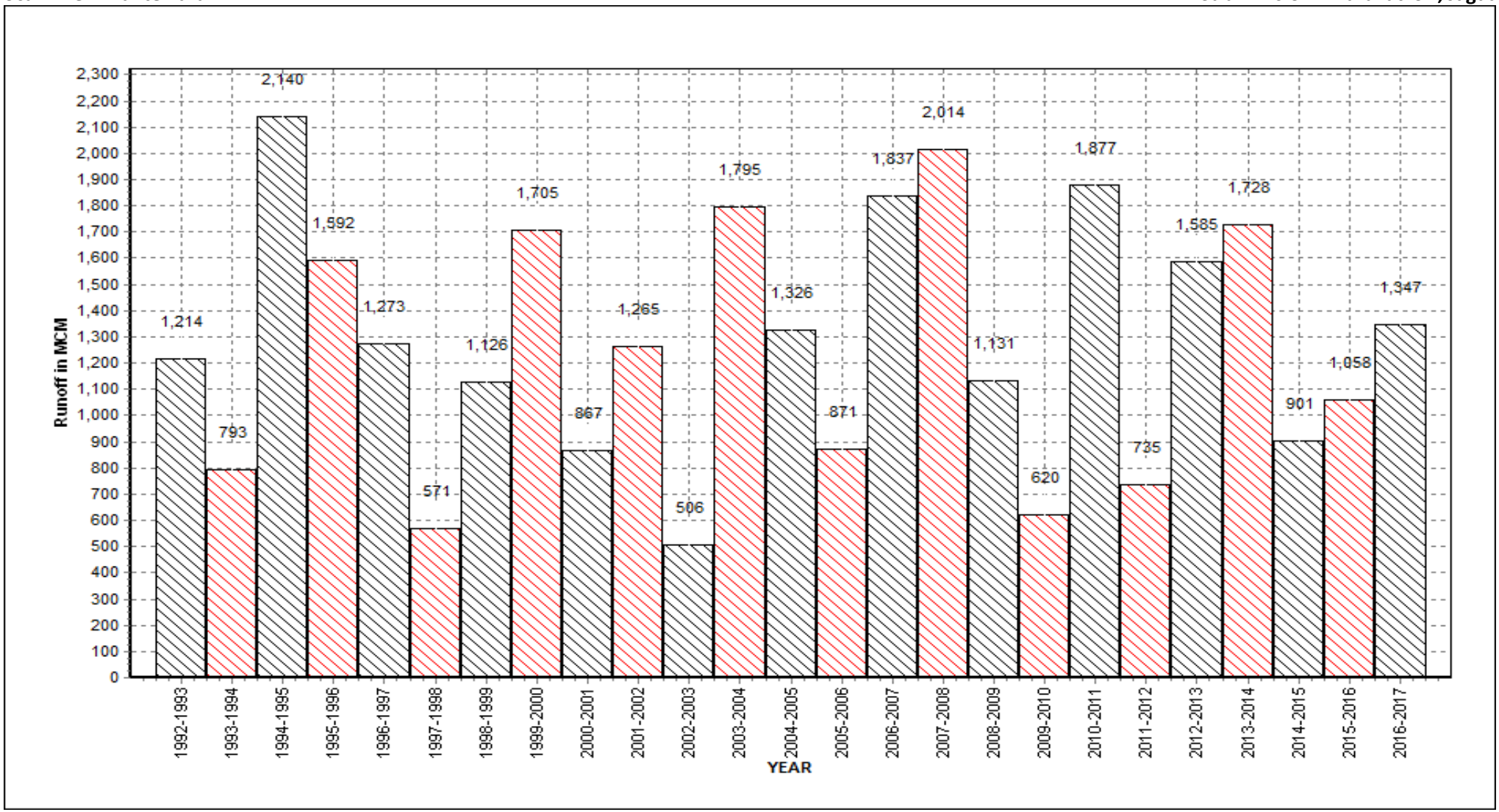
Local River : Dantewara | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1992 - 2017

Station Name : Tumnar (AGG60B1) **Division : Lower Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

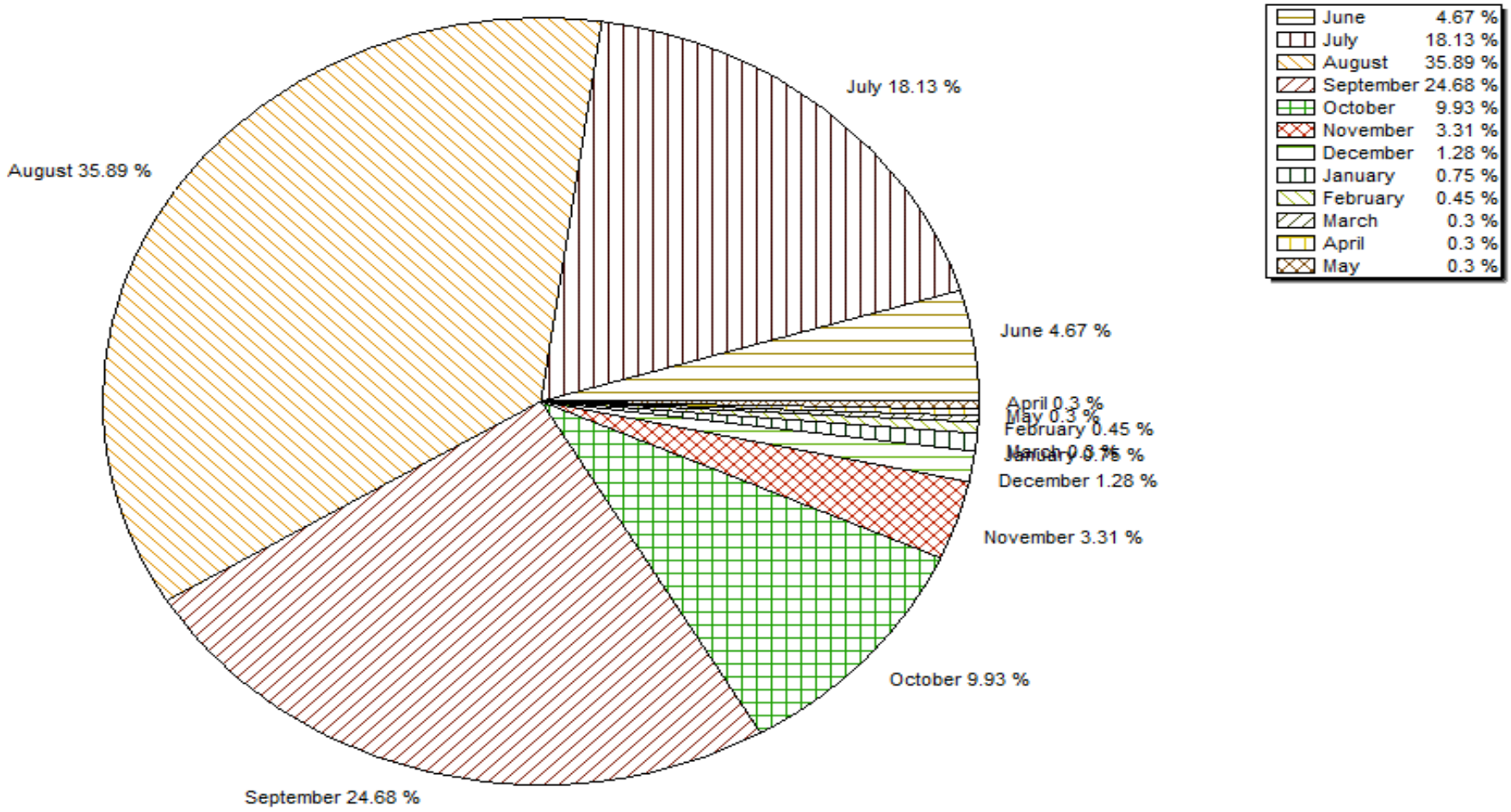
Monthly Average Runoff based on period : 1992-2016

Station Name : Tumnar (AGG60B1)

Local River : Dantewara

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



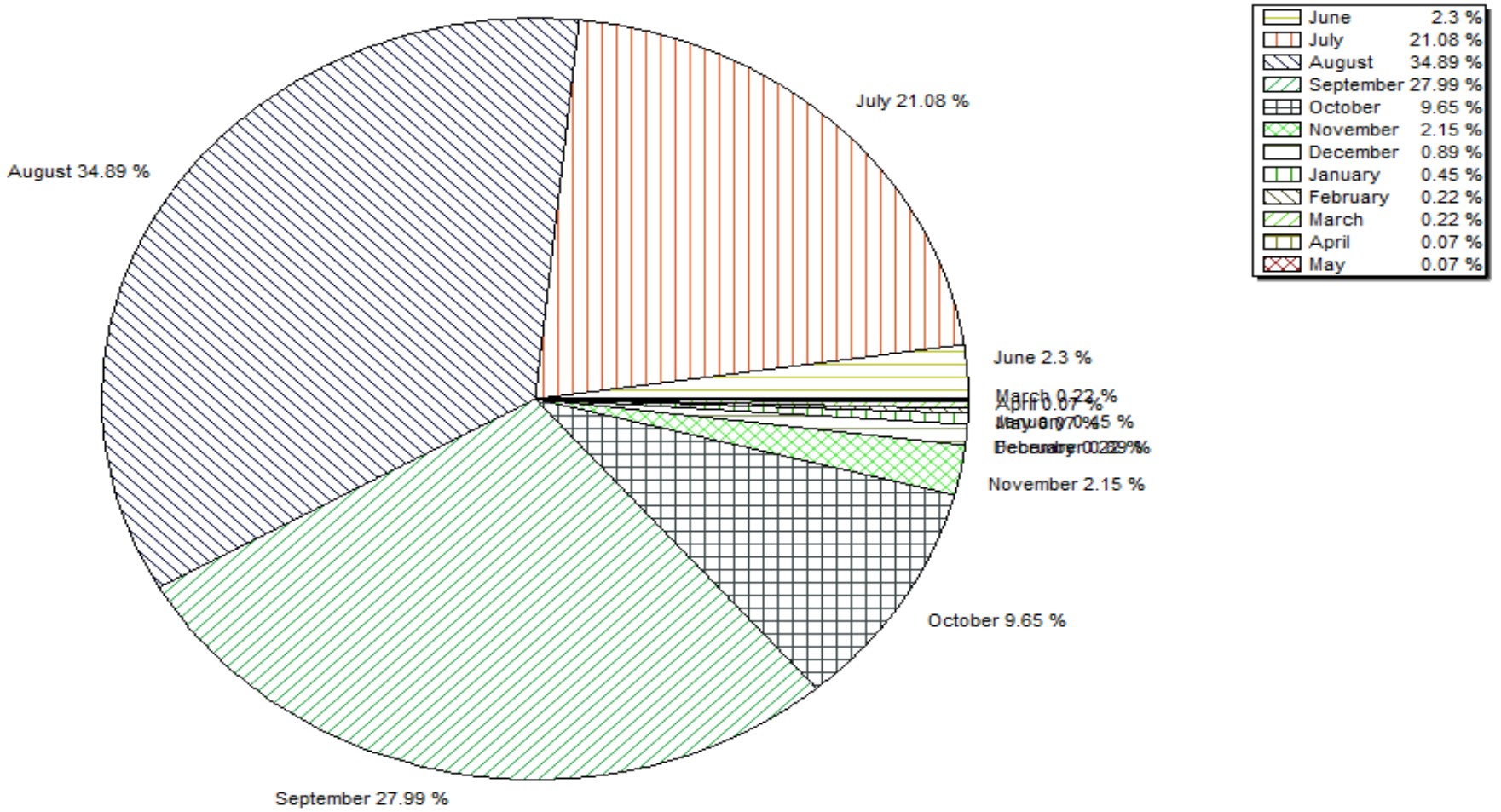
Monthly Runoff for the Year : 2016-2017

Station Name : Tumnar (AGG60B1)

Local River : Dantewara

Division : Lower Godavari Div., Hyderabad

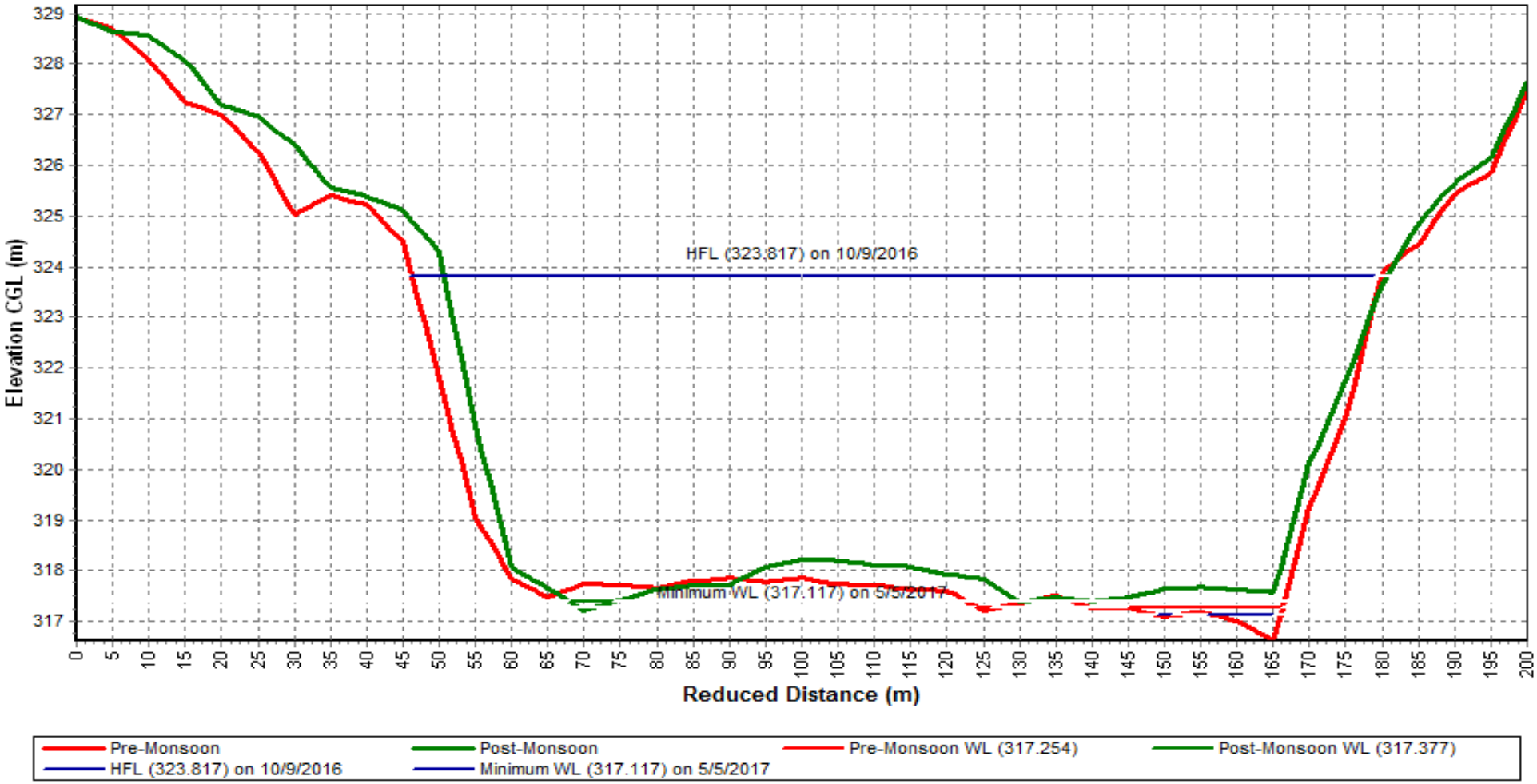
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Tumnar (AGG60B1) **Division : Lower Godavari Div., Hyderabad**

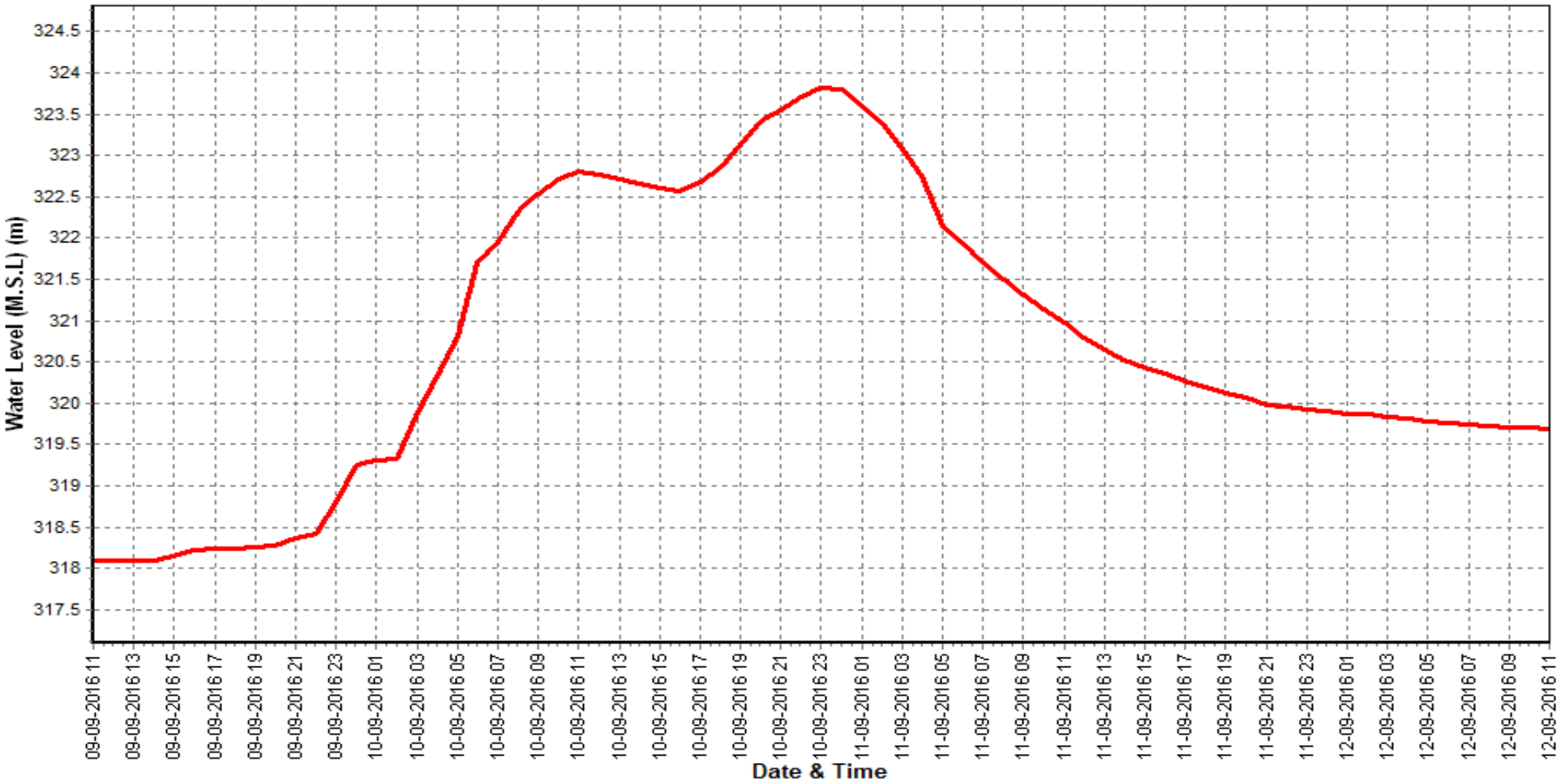
Local River : Dantewara **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Tumnar (AGG60B1) **Division : Lower Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravati SD, Jagdalpur**

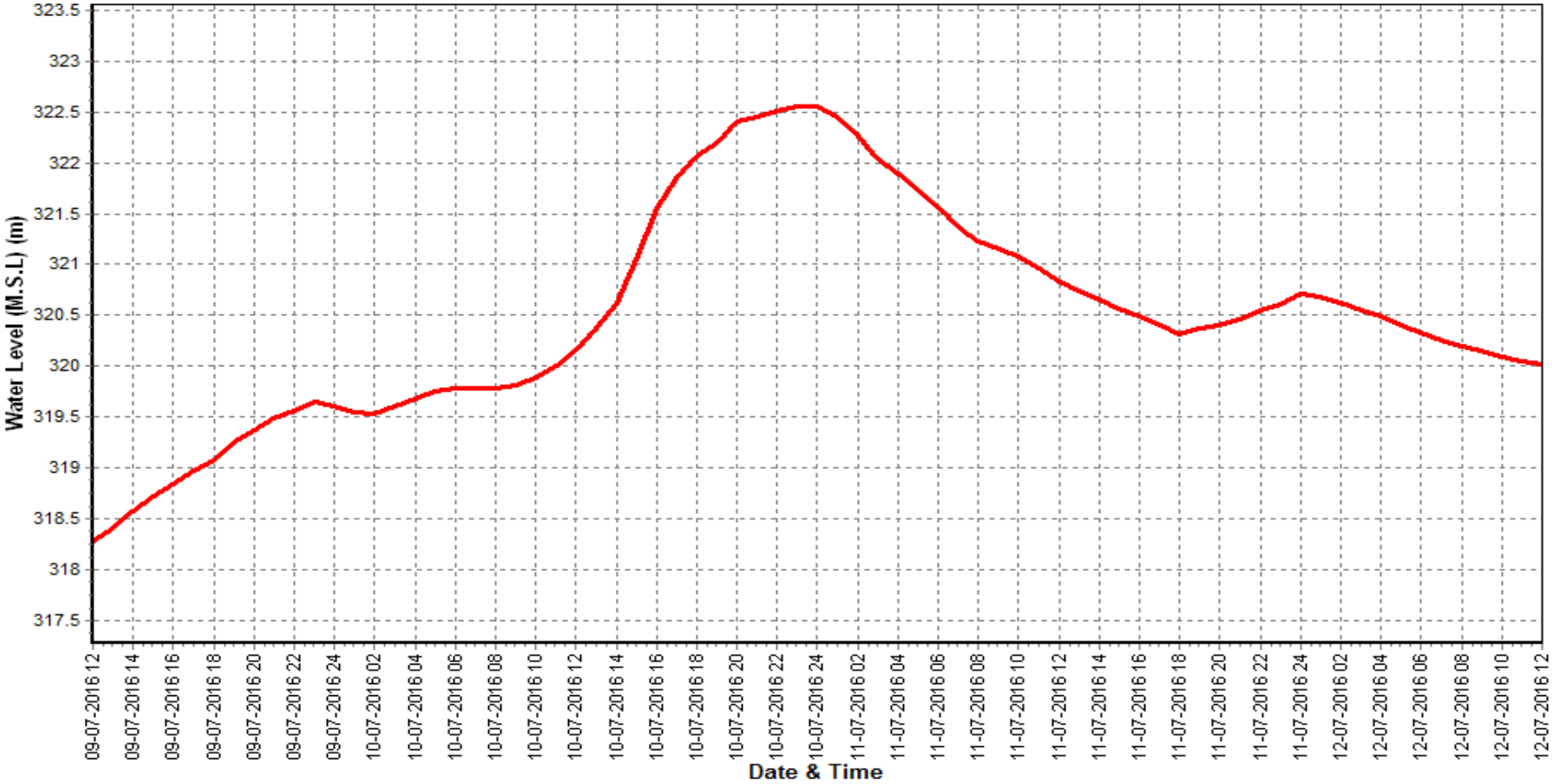


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Tumnar (AGG60B1) **Division : Lower Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravati SD, Jagdalpur**

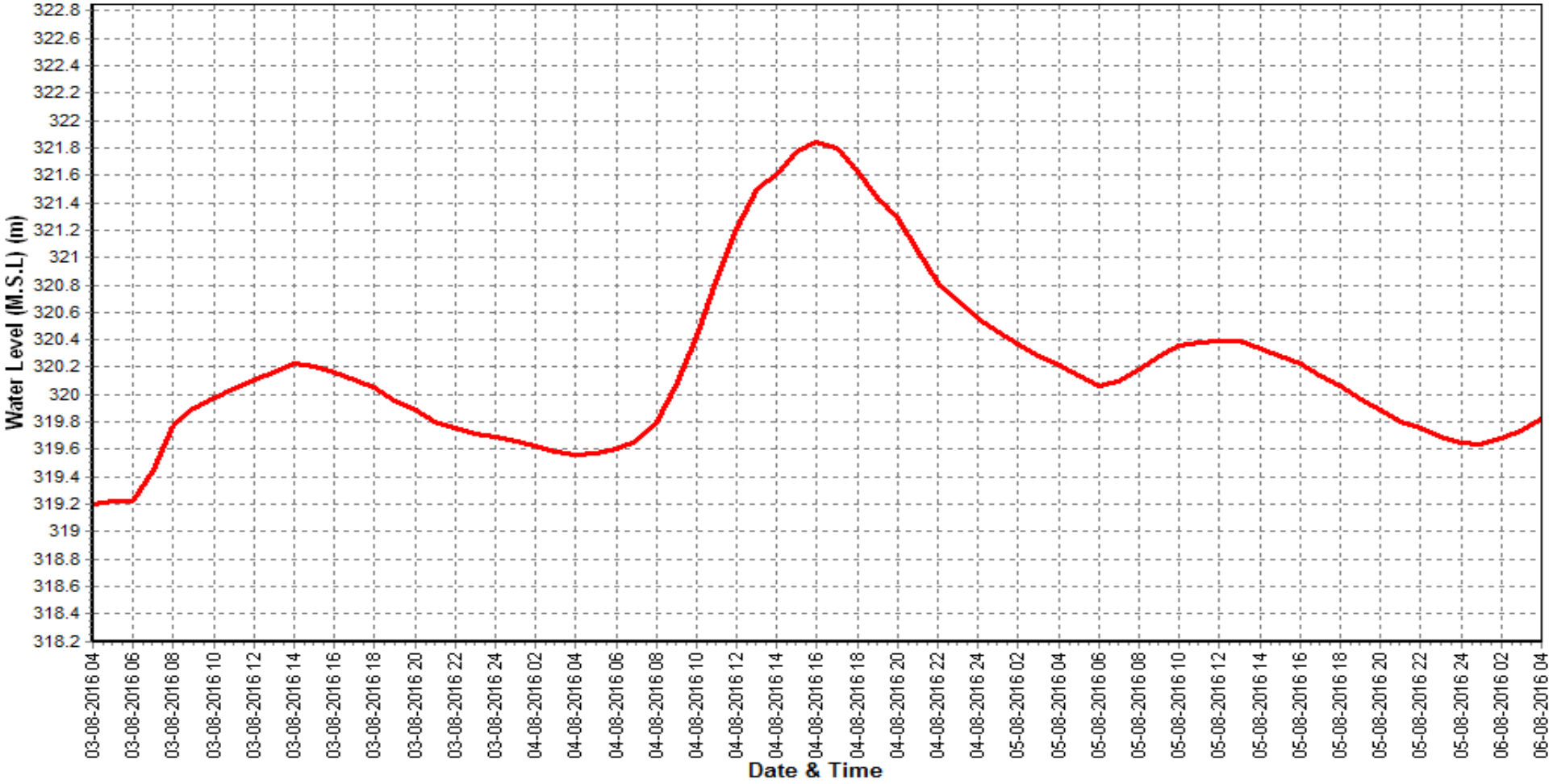


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Tumnar (AGG60B1) **Division : Lower Godavari Div., Hyderabad**

Local River : Dantewara **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Chindnar**	**Code**	**:**	**AGG00N7**
State	:	Chhattisgarh	District		Dantewara
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Indravathi
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	17270 Sq. Km.	Bank	:	Left
Latitude	:	19°05'00"	Longitude	:	81°18'00"
Zero of Gauge (m)	:	325.002 (m.s.l) 327.15 (m.s.l)	06.06.1971 01.06.1978	-	31.05.1978
		Opening Date	Closing Date		
Gauge	:	06.06.1971	**HFL During 2016-17**	**:**	**336.39**
			Corres.Discharge	**:**	**5548.166 Cumecs(Estimated)**
Discharge	:	07.12.1971	**Date& Time of Occurance**	**:**	**11.07.2016 04:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1972-1973	4621	334.557	06.07.1972	6.700	327.710	24.05.1973
1973-1974	4550	334.652	09.07.1973	9.470	327.717	12.05.1974
1974-1975	1394	331.467	18.06.1974	5.546	327.737	04.06.1974
1975-1976	5346	334.202	14.08.1975	9.758	327.687	13.05.1976
1976-1977	5138	334.792	21.07.1976	10.80	327.727	06.06.1976
1977-1978	4705	334.232	23.08.1977	13.46	327.777	29.05.1978
1978-1979	8167	337.690	17.08.1978	10.00	329.860	30.05.1979
1979-1980	4668	336.450	04.08.1979	7.100	329.795	31.05.1980
1980-1981	4821	336.465	20.09.1980	6.700	329.845	29.05.1981
1981-1982	4556	336.185	10.08.1981	6.800	329.780	13.05.1982
1982-1983	3494	335.625	14.08.1982	5.777	329.755	08.05.1983
1983-1984	3531	335.600	26.06.1983	4.648	329.685	27.05.1984
1984-1985	6330	337.390	02.08.1984	5.695	329.805	03.05.1985
1985-1986	3080	335.235	08.08.1985	7.900	329.775	23.04.1986
1986-1987	6915	337.620	15.08.1986	5.763	329.805	26.04.1987
1987-1988	1923	334.350	06.09.1987	5.000	329.720	11.04.1988
1988-1989	1848	333.720	23.09.1988	4.500	329.610	11.05.1989
1989-1990	2381	334.840	31.08.1989	4.468	329.710	01.05.1990
1990-1991	7464	337.870	23.08.1990	9.304	329.800	10.05.1991
1991-1992	6147	337.710	31.07.1991	6.810	329.765	28.05.1992
1992-1993	6291	337.390	29.07.1992	7.023	329.730	14.05.1993

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1993-1994	2614	335.260	15.07.1993	2.980	329.650	17.05.1994
1994-1995	7418	338.530	06.09.1994	3.972	329.810	28.04.1995
1995-1996	12223	339.160	24.07.1995	4.680	329.820	16.06.1995
1996-1997	2352	334.950	23.07.1996	1.195	329.870	08.06.1996
1997-1998	3070	335.360	23.08.1997	0.268	329.460	13.06.1997
1998-1999	1508	333.780	12.07.1998	1.563	329.460	10.06.1998
1999-2000	3003	335.250	09.08.1999	0.317	329.495	12.05.2000
2000-2001	3247	335.430	31.08.2000	2.102	329.540	12.04.2001
2001-2002	9820	339.050	21.08.2001	1.388	329.500	02.04.2002
2002-2003	5274	337.050	24.08.2002	0.000	329.600	05.02.2003
2003-2004	4311	336.250	26.07.2003	0.000	329.380	10.12.2003
2004-2005	5008	336.500	15.06.2004	0.012	329.480	30.06.2004
2005-2006	7127	337.375	14.09.2005	1.216	329.720	11.06.2005
2006-2007	13351	340.100	05.07.2006	0.711	329.660	29.05.2007
2007-2008	10073	339.050	08.08.2007	0.021	329.640	25.05.2008
2008-2009	4821	336.440	11.08.2008	0.015	329.640	02.06.2008
2009-2010	4059	335.600	27.08.2009	0.239	329.630	25.04.2010
2010-2011	11335	339.250	07.08.2010	3.216	329.790	10.06.2010
2011-2012	2899	335.150	02.09.2011	1.059	329.610	04.04.2012
2012-2013	4847	336.490	20.08.2012	0.643	329.570	19.04.2013
2013-2014	3995	335.790	15.06.2013	2.595	329.750	08.05.2014
2014-2015	9311	337.100	23.07.2014	3.051	329.750	14.06.2014
2015-2016	6630	336.920	18.09.2015	0.784	329.630	13.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	329.770	3.828	334.810	3224	332.875	1024	332.840	1014 #	333.230	1425	330.890	108.8
2	329.750	3.237	333.810	1707	333.190	1281 #	332.390	722.9 #	333.170	1264 *	330.840	111.9
3	329.730	3.162	332.820	999.9 *	333.300	1372 #	332.265	697.3	332.720	914.2	330.790	107.4
4	329.700	2.675	332.455	878.4	333.375	1436 #	332.570	832.6 *	332.365	722.2	330.760	104.3
5	329.720	5.830 *	332.245	690.0	333.925	1991	332.610	858.2 *	332.075	563.0	330.710	93.44
6	329.830	5.831	332.350	699.7 *	335.210	3580	332.520	912.9	332.170	624.1	330.680	90.23 *
7	329.920	8.805	331.950	520.6	336.130	5068 *	332.370	837.1	332.440	830.1	330.670	82.24
8	329.970	9.920	331.655	364.4 #	335.000	3536	331.985	586.8	333.050	1177	330.700	86.08
9	330.065	13.71	331.650	345.5	333.830	1921	331.700	425.9	333.360	1423 *	330.640	78.73
10	330.030	12.07	334.300	2373 *	333.000	1262	335.300	3701 *	334.220	2268	330.600	63.71
11	329.980	10.41	336.340	5086	332.400	728.7 *	335.500	4008 *	333.430	1484 *	330.580	62.06
12	329.990	13.77 *	335.195	3593	332.120	574.8 *	335.600	4167 *	332.730	937.6 *	330.540	59.88
13	330.030	13.77	333.585	1828	332.300	671.3 *	335.410	3868 *	332.240	680.3	330.550	68.99 *
14	330.300	37.04 #	332.600	851.7 #	332.050	539.6 *	334.080	1971	331.955	497.0	330.530	66.01 *
15	330.320	39.18 #	332.085	651.8	332.050	539.6 *	333.830	1779	331.740	468.9	330.500	64.33
16	330.480	52.88	332.065	547.0 #	332.090	559.6 *	333.070	1170	331.580	335.6 *	330.480	63.11
17	330.230	26.26	331.840	441.5 *	332.350	699.7 *	332.570	835.6	331.465	279.9	330.480	56.57
18	331.000	132.4	331.735	401.5	332.600	851.7 *	332.280	660.2 *	331.375	247.0	330.460	58.00
19	330.670	109.1 *	331.550	337.6	332.120	448.1	332.325	743.1	331.300	217.2	330.470	60.87
20	330.810	109.2	331.890	465.4	331.815	367.7	332.540	827.2	331.235	200.9	330.440	53.53 *
21	330.530	62.38	331.860	458.3	331.610	346.9 *	333.015	1166	331.180	190.6	330.430	50.57
22	330.340	41.78	332.830	1007 *	331.375	255.0	332.655	885.2	331.135	180.4	330.350	44.69
23	330.210	31.20	332.940	1087 *	331.255	229.7	332.250	634.6	331.070	174.6 *	330.260	39.76
24	330.150	30.25	333.420	1476 *	331.155	199.4	332.075	564.0	331.020	142.6	330.470	52.95
25	330.050	22.36	332.990	1124 #	331.170	211.9	331.990	510.4 *	330.990	125.6	330.390	47.04
26	331.330	249.1 *	333.080	1193 #	331.590	315.5	331.820	462.5	330.970	123.5	330.350	45.63
27	331.815	418.3	332.560	826.2 #	332.620	948.5	332.055	540.4	330.940	115.2	330.330	40.28 *
28	331.480	279.4	332.265	713.3	333.610	1649 *	332.400	722.3	330.910	112.2	330.290	29.66
29	332.025	559.7	331.910	473.0 #	332.955	1225	333.375	1538	330.875	107.6	330.180	23.71
30	332.800	1153	331.990	510.4 #	332.220	683.1	333.395	1553	330.870	127.3 *	330.185	25.09
31			332.510	795.0 *	332.520	801.2 #			330.930	120.1		
Ten-Daily Mean												
I Ten-Daily	329.848	6.907	332.805	1180	333.983	2247	332.655	1059	332.880	1121	330.728	92.68
II Ten-Daily	330.381	54.40	332.888	1420	332.190	598.1	333.721	2003	331.905	534.9	330.503	61.33
III Ten-Daily	331.073	284.8	332.578	878.4	332.007	624.1	332.503	857.7	330.990	138.2	330.324	39.94
Monthly												
Min.	329.700	2.675	331.550	337.6	331.155	199.4	331.700	425.9	330.870	107.6	330.180	23.71
Max.	332.800	1153	336.340	5086	336.130	5068	335.600	4167	334.220	2268	330.890	111.9
Mean	330.434	115.4	332.751	1151	332.704	1139	332.960	1307	331.895	583.2	330.518	64.65

Annual Runoff in MCM = 11691 Annual Runoff in mm = 677

Peak Observed Discharge = 5086 cumecs on 11-07-2016 Corres. Water Level :336.34 m

Lowest Observed Discharge = 1.955 cumecs on 18-03-2017 Corres. Water Level :329.75 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	330.210	27.89	330.070	17.21 *	329.920	6.882	329.890	5.346	329.790	2.641	329.740	3.341
2	330.170	23.35	330.090	17.42	329.890	6.446	329.870	5.128	329.770	3.919 *	329.740	3.391
3	330.130	22.27	330.070	15.77	329.860	5.826	329.860	4.846	329.740	3.919	329.720	3.009
4	330.190	26.48 *	330.060	15.05	330.010	13.19	329.860	4.814	329.720	4.363	329.750	3.561
5	330.190	25.02	330.060	15.39	329.950	6.292 *	329.870	4.947 *	329.700	4.396 *	329.780	4.092
6	330.140	22.34 *	330.060	15.01	329.900	6.291	329.890	4.947	329.730	4.396	329.750	3.659
7	330.110	21.73	330.050	14.67	329.860	4.626	329.890	5.080	329.790	4.607	329.710	3.081 *
8	330.070	19.45	330.050	15.89 *	329.840	4.303	329.880	4.818	329.830	4.605 *	329.670	3.081
9	330.040	18.41	330.050	14.67	329.820	3.573	329.850	4.474	329.790	4.604 *	329.740	4.452
10	330.050	19.12	330.050	13.37	329.890	5.518	329.810	3.471	329.790	4.604	329.990	9.182 *
11	330.070	17.21 *	330.040	15.25 *	329.900	4.950 *	329.850	3.599 *	329.770	3.885	329.950	9.181
12	330.130	21.56 *	330.050	14.69	329.890	4.950 *	329.830	3.599 *	329.730	4.291	329.890	7.739
13	330.150	23.39	330.050	14.52	329.880	4.950	329.810	3.599	329.720	4.380	329.880	5.930 *
14	330.150	22.98	330.050	14.52 *	329.880	4.969	329.800	2.602	329.710	4.424 *	329.870	5.930 *
15	330.120	20.55	330.050	14.52 *	329.890	5.023	329.780	2.499	329.730	4.424	329.820	5.929
16	330.120	20.92	330.040	13.70	329.890	5.099	329.770	2.246	329.830	4.674 *	329.940	8.787
17	330.110	20.50	330.030	13.46	329.890	5.102	329.800	4.674	329.800	4.674	329.980	10.23
18	330.120	20.79 *	330.000	11.89	329.950	6.780	329.750	1.955	329.770	4.035	329.970	9.840
19	330.050	16.23	329.980	11.32	329.940	8.315 *	329.730	3.950 *	329.770	3.985	329.950	9.399
20	329.990	14.95	329.970	10.97	329.910	8.314	329.730	3.950	329.760	3.910	329.930	8.454
21	329.990	15.00	329.980	10.69	329.890	5.278	329.690	2.935	329.850	6.591	329.910	7.630 *
22	330.090	18.82	329.980	11.72 *	329.890	5.451	329.670	4.171	329.860	6.820	329.890	7.630
23	330.080	18.14	330.070	15.06	329.870	4.776	329.660	2.609	329.850	6.780 *	329.870	7.320
24	330.050	16.85	330.010	11.37	330.010	11.71	329.650	2.489	329.850	6.780	329.860	6.911
25	330.040	15.25 *	329.990	10.81	329.980	9.985	329.670	2.976	329.850	6.868	329.900	8.133
26	330.050	17.38	329.990	10.67 *	330.000	6.884 *	329.800	3.520 *	329.820	6.153	329.860	6.759
27	330.060	17.75	329.960	10.17	329.950	6.883	329.810	3.520	329.800	4.280	329.850	6.353
28	330.110	19.82	329.950	9.576	329.910	6.027	329.810	3.618	329.790	4.119	329.790	4.318 *
29	330.090	17.26	329.950	8.454 *			329.920	5.017 *	329.790	4.065	329.770	4.318
30	330.070	17.52	329.950	8.454			329.890	5.017	329.770	3.341 *	329.750	3.769
31	330.070	16.52	329.950	8.479			329.840	4.337			329.920	8.662
Ten-Daily Me												
I Ten-Daily	330.130	22.60	330.061	15.44	329.894	6.294	329.867	4.787	329.765	4.205	329.759	4.085
II Ten-Daily	330.101	19.91	330.026	13.49	329.902	5.845	329.785	3.267	329.759	4.268	329.918	8.142
III Ten-Daily	330.064	17.30	329.980	10.50	329.938	7.125	329.765	3.655	329.823	5.580	329.852	6.528
Monthly												
Min.	329.990	14.95	329.950	8.454	329.820	3.573	329.650	1.955	329.700	2.641	329.670	3.009
Max.	330.210	27.89	330.090	17.42	330.010	13.19	329.920	5.346	329.860	6.868	329.990	10.23
Mean	330.097	19.85	330.021	13.06	329.909	6.371	329.804	3.895	329.782	4.684	329.843	6.26

Peak Computed Discharge = 5068 cumecs on 07-08-2016 **Corres. Water Level :336.13 m**

Lowest Computed Discharge = 3.081 cumecs on 07-05-2017 **Corres. Water Level :329.71 m**

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

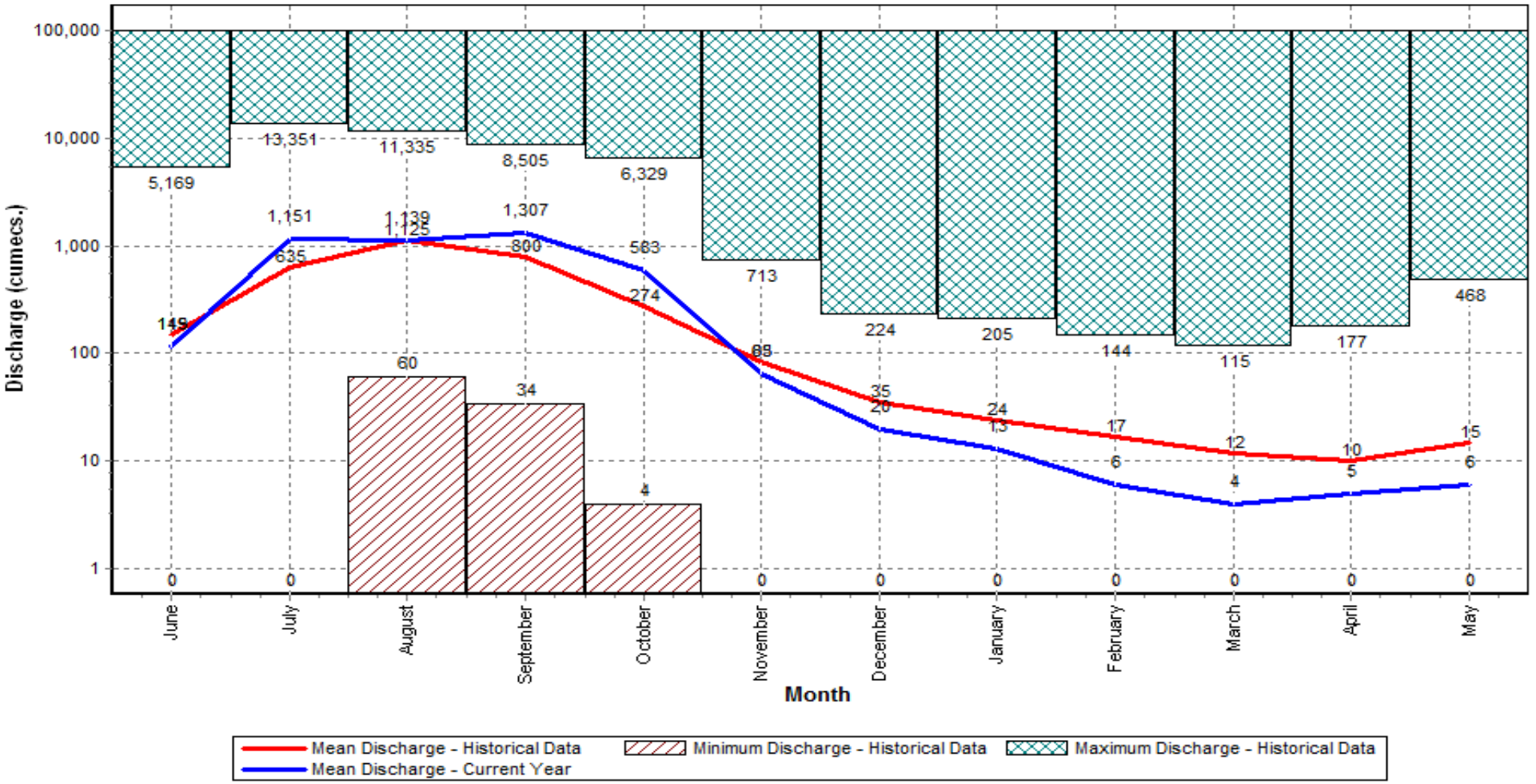
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Chindnar (AGG00N7) | **Data considered : 1972-2017** | **Division : Lower Godavari Div., Hyderabad**

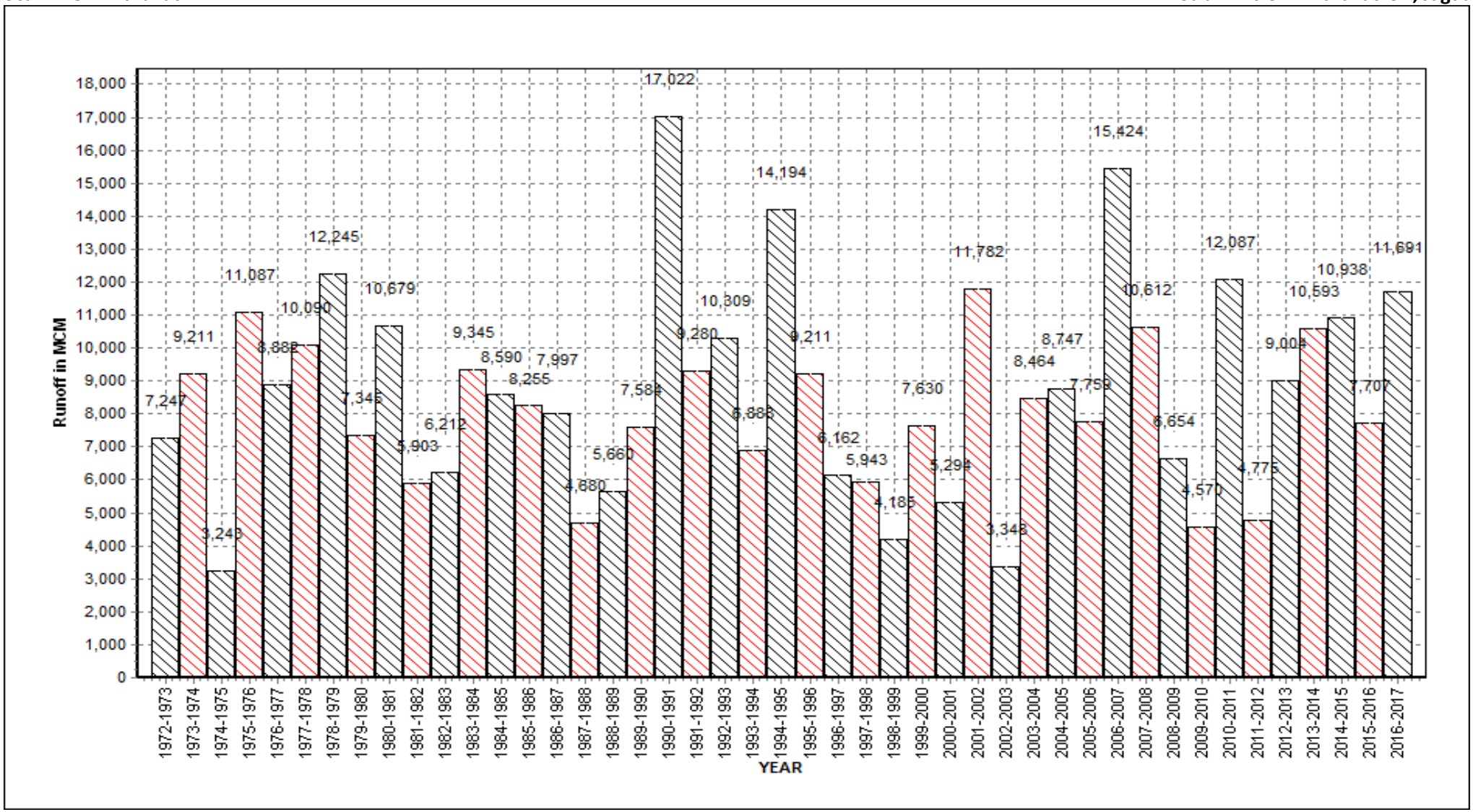
Local River : Indravathi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1972 - 2017

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

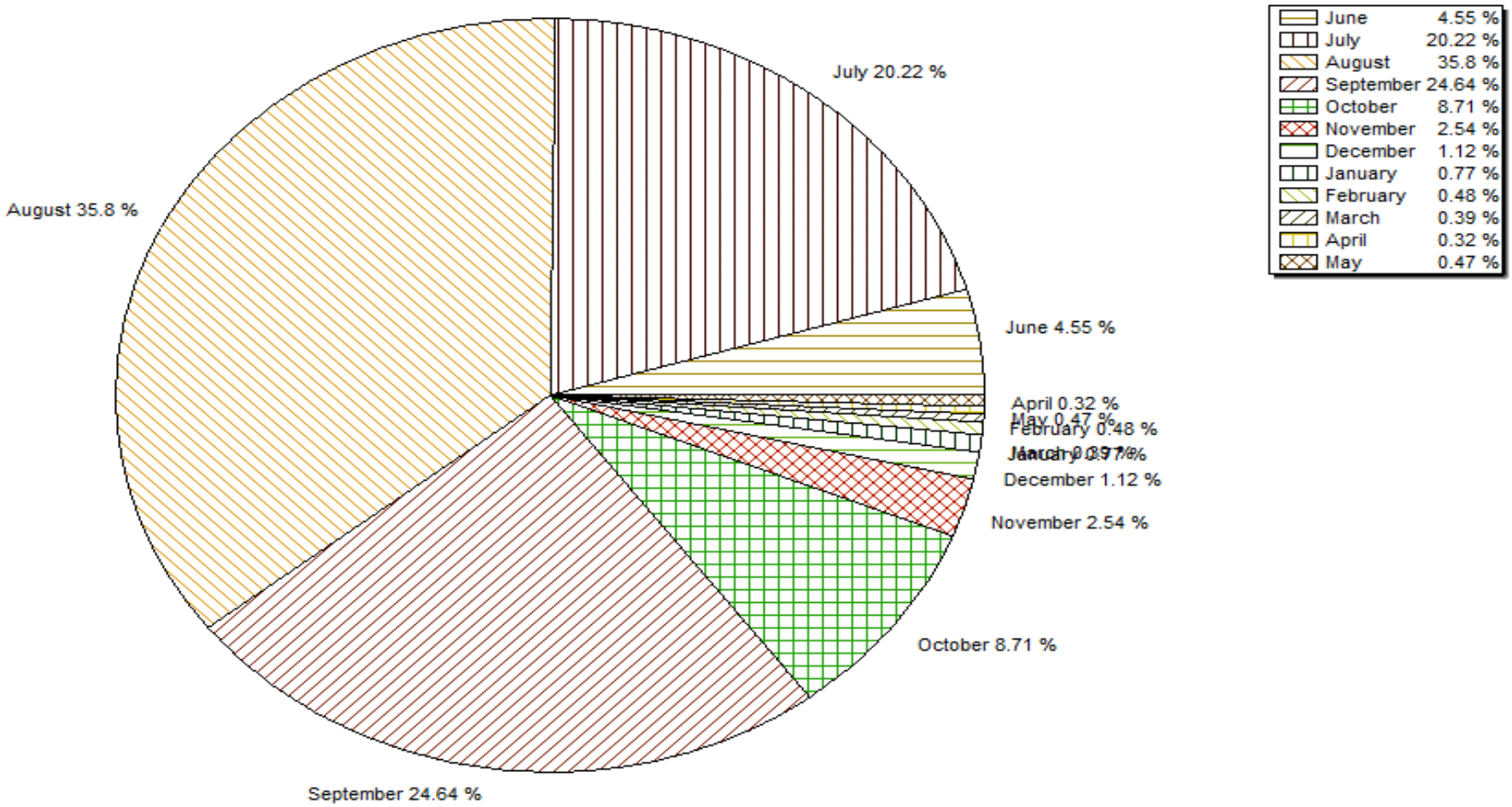
Monthly Average Runoff based on period : 1972-2016

Station Name : Chindnar (AGG00N7)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



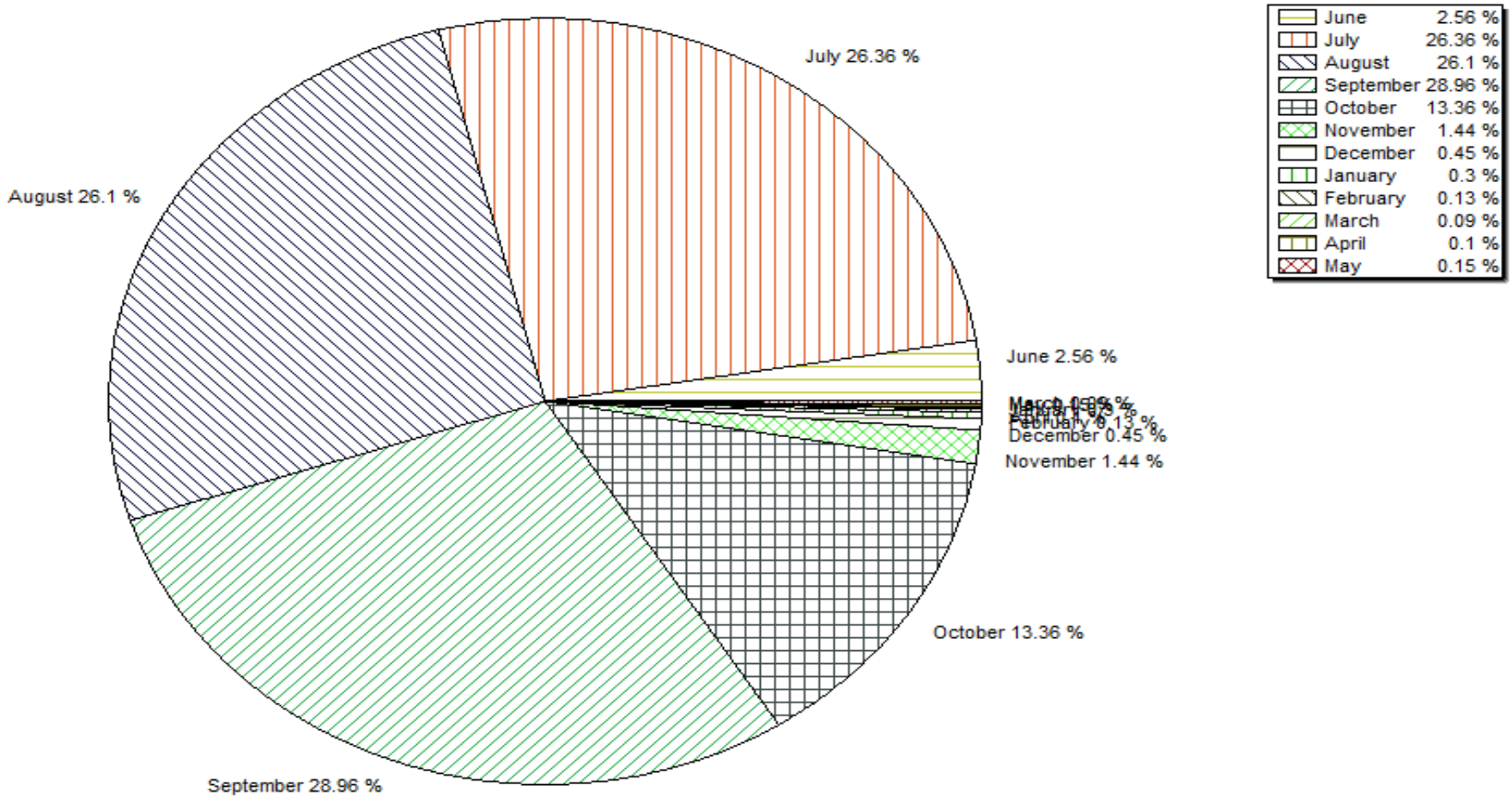
Monthly Runoff for the Year : 2016-2017

Station Name : Chindnar (AGG00N7)

Division : Lower Godavari Div., Hyderabad

Local River : Indravathi

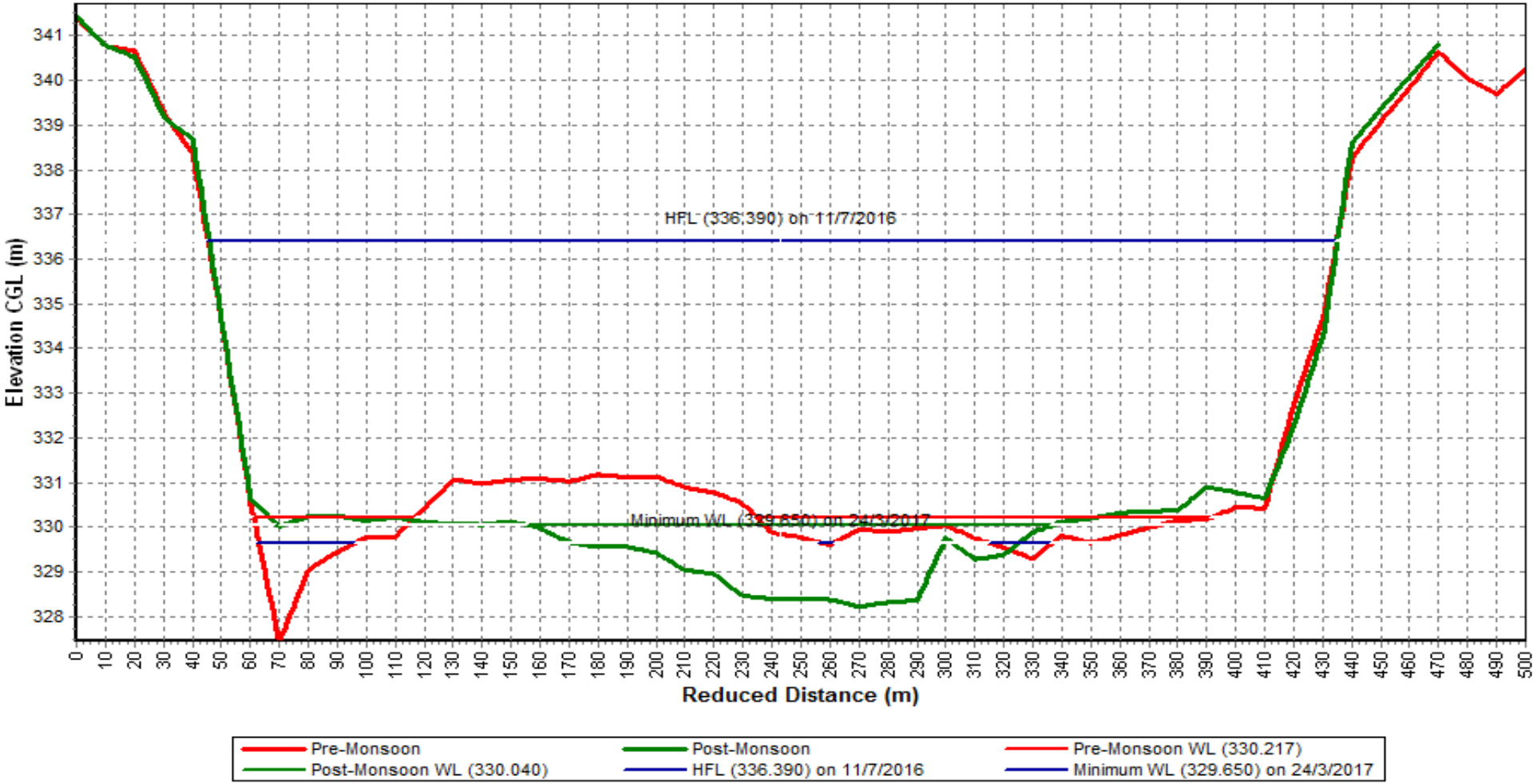
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

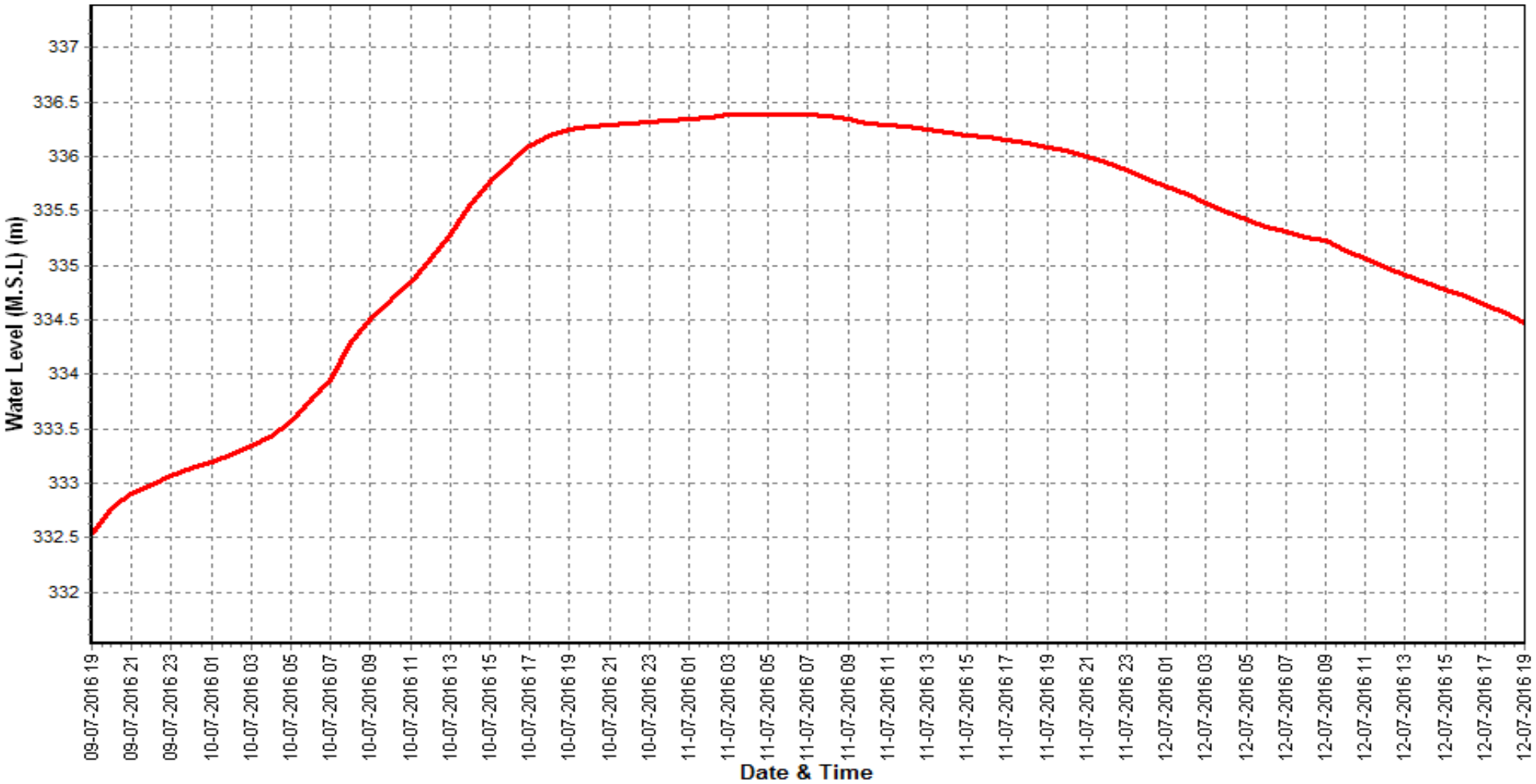
Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

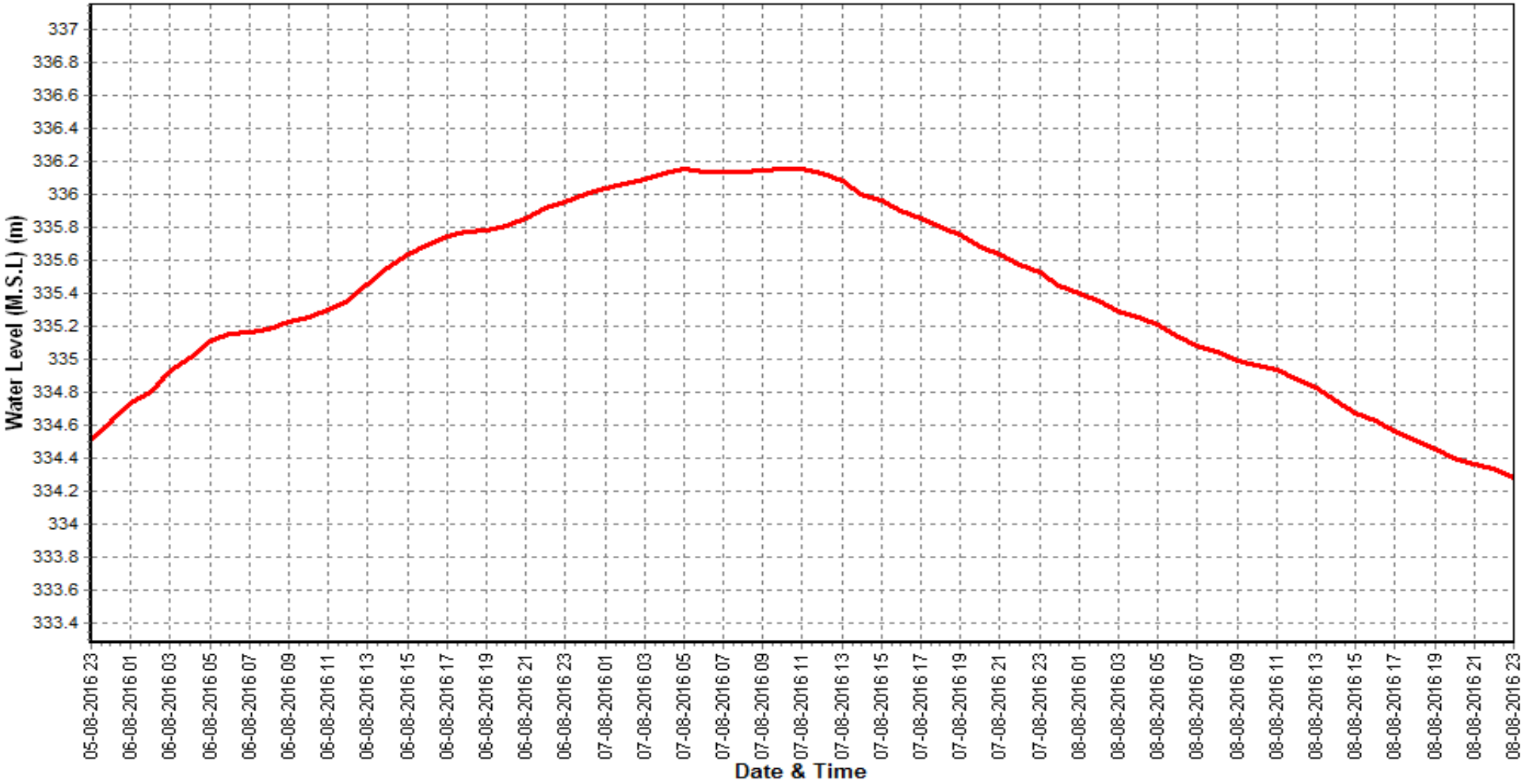


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

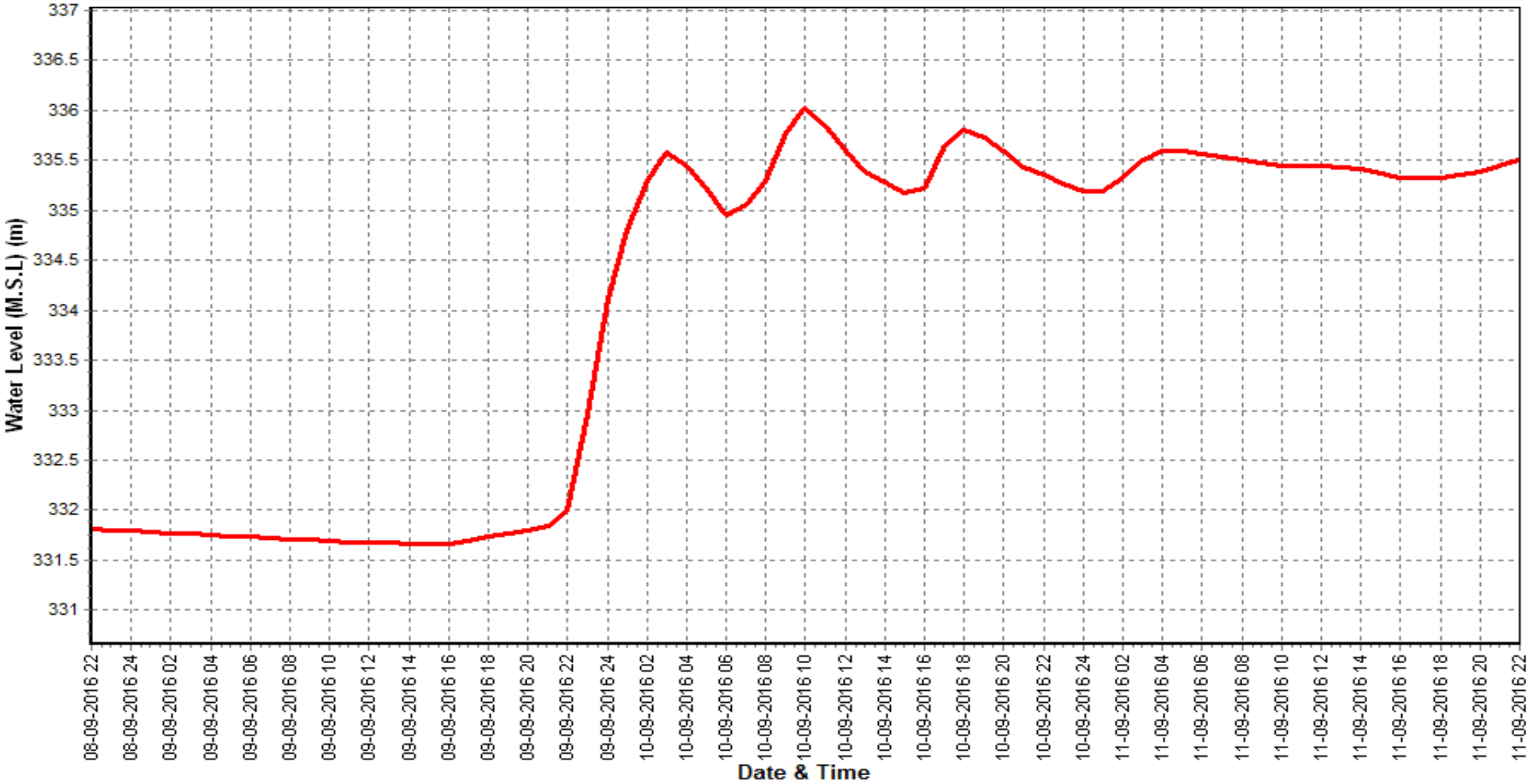


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Chindnar (AGG00N7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Cherribeda**	**Code**	**:**	**Cherribeda**
State	:	Chhattisgarh	District		Bastar
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	Bardha
Sub-Sub Tributary	:	-	Local River	:	Bardha
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	890 Sq. Km.	Bank	:	Left
Latitude	:	19°38'23"	Longitude	:	81°29'07"
Zero of Gauge (m)	:	564.4 (m.s.l)	01.11.1996		
		Opening Date	Closing Date		
Gauge	:	21.03.1996	**HFL During 2016-17**	**:**	**570.32**
			Corres.Discharge	**:**	**2247.071 Cumecs(Estimated)**
Discharge	:	13.11.1996	**Date& Time of**	**:**	**06.08.2016**
			Occurance	**:**	**19:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1996-1997	185.6	568.800	26.07.1996	0.000	565.070	20.05.1997
1997-1998	432.5	570.150	22.08.1997	0.000	565.370	25.05.1998
1998-1999	76.57	567.550	17.08.1998	0.000	565.300	31.03.1999
1999-2000	252.4	569.050	31.08.1999	0.000		01.06.1999
2000-2001	179.3	568.370	20.07.2000	0.000	565.220	10.04.2001
2001-2002	963.6	572.600	20.08.2001	0.000		01.05.2002
2002-2003	312.4	569.460	08.09.2002	0.000		17.04.2003
2003-2004	1380	571.900	25.07.2003	0.000		15.06.2003
2004-2005	987.4	570.690	15.06.2004	0.082	565.530	24.05.2005
2005-2006	579.8	569.900	13.09.2005	0.000		17.06.2005
2006-2007	2485	573.900	04.07.2006	0.080	565.340	31.05.2007
2007-2008	1816	572.890	07.08.2007	0.000	565.250	15.05.2008
2008-2009	377.6	569.000	11.08.2008	0.000		12.05.2009
2009-2010	434.0	569.000	15.07.2009	0.000		20.04.2010
2010-2011	1662	572.700	06.09.2010	0.000	565.420	19.04.2011
2011-2012	237.7	568.260	01.09.2011	0.000	565.240	23.04.2012
2012-2013	988.2	571.200	19.08.2012	0.000	565.160	29.04.2013
2013-2014	728.6	570.200	07.08.2013	0.000	565.270	01.05.2014
2014-2015	4384	571.650	22.07.2014	0.000	565.430	31.03.2015
2015-2016	1762	569.910	17.09.2015	0.000	565.720	18.03.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Cherribeda (Cherribeda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	564.400	0.000	568.810	806.6 *	566.510	34.70 *	567.290	154.6 *	569.000	938.6 *	566.090	7.759
2	564.400	0.000	568.980	924.1 *	566.840	7.871 *	567.160	126.6 *	567.610	239.6 *	566.080	7.689
3	564.400	0.000	567.310	159.2 *	568.540	6.697 *	567.170	128.6 *	567.030	102.1 *	566.070	7.693
4	564.400	0.000	566.350	22.39 *	568.050	398.4 *	567.080	111.1 *	566.890	79.35 *	566.060	7.324
5	564.400	0.000	566.570	40.23 *	568.510	623.4 *	566.970	91.90 *	566.710	55.28 *	566.050	7.157
6	564.400	0.000	566.355	24.39	570.050	1919 *	566.730	57.68 *	566.570	40.23 *	566.050	6.985 *
7	564.400	0.000	566.270	17.47 *	569.960	1817 *	566.610	44.22 *	566.780	63.98 *	566.050	6.985
8	565.850	2.152	566.150	15.75	567.900	338.4 *	566.520	35.58 *	568.100	419.8 *	566.040	6.902
9	565.760	1.425 *	567.400	181.2 *	567.220	139.1 *	566.600	43.20 *	567.930	349.9 *	566.040	6.897
10	565.680	0.691 *	568.750	767.5 *	566.750	15.35 *	566.800	66.62 *	567.190	132.8 *	566.020	5.326
11	565.530	0.072 *	569.400	1260 *	566.700	54.10 *	567.470	199.5 *	566.950	88.65 *	566.000	6.725
12	566.460	30.48 *	568.500	617.9 *	567.480	202.2 *	568.270	498.0 *	566.700	54.10 *	566.000	6.938
13	566.115	7.149	567.490	204.9 *	566.950	88.65 *	567.470	199.5 *	566.580	41.21 *	565.980	6.559 *
14	565.950	3.252	566.610	44.22 *	566.930	85.50 *	566.820	69.33 *	566.510	34.70 *	565.970	6.559 *
15	565.910	2.853	566.510	34.70 *	566.910	82.38 *	567.400	181.2 *	566.430	28.11 *	565.960	6.559
16	565.900	2.658	566.570	40.23 *	567.620	242.7 *	566.680	51.79 *	566.390	25.14 *	565.950	6.227
17	565.950	3.430	566.740	58.91 *	568.400	563.7 *	566.450	29.67 *	566.350	16.21	565.940	6.251
18	566.760	61.41 *	566.510	34.70 *	567.120	118.7 *	566.560	39.27 *	566.320	16.54	565.930	6.557
19	566.220	14.78 *	566.420	27.35 *	566.900	80.86 *	566.650	48.46 *	566.300	16.10	565.920	6.704
20	565.990	4.223	566.290	25.91	566.780	63.98 *	566.760	61.41 *	566.280	16.96	565.910	4.868 *
21	565.920	2.950	566.510	34.70 *	566.680	51.81 *	567.200	134.8 *	566.260	18.34	565.910	4.868
22	565.860	1.902	567.670	258.3 *	566.650	48.46 *	566.790	65.29 *	566.240	16.40	565.900	4.820
23	565.820	2.215 *	567.570	227.7 *	566.560	39.27 *	566.620	45.26 *	566.220	14.78 *	565.890	5.144
24	566.290	18.63 *	567.000	96.91 *	566.900	80.86 *	566.540	37.40 *	566.220	13.43	565.880	5.009
25	566.360	23.06 *	566.930	85.48 *	566.790	65.29 *	566.540	37.40 *	566.210	12.83	565.870	5.136
26	566.500	33.82 *	566.850	73.52 *	567.630	245.8 *	566.900	80.86 *	566.190	12.38	565.860	5.111
27	566.215	14.75	566.900	80.86 *	567.780	294.9 *	566.780	63.98 *	566.180	11.70	565.850	4.957 *
28	566.100	12.86	566.540	37.40 *	567.480	202.2 *	567.900	338.4 *	566.170	11.42	565.850	4.957
29	566.900	80.86 *	566.880	77.87 *	566.820	69.33 *	568.590	669.3 *	566.130	11.45	565.840	5.038
30	567.540	219.0 *	566.760	61.41 *	566.690	52.94 *	567.200	134.8 *	566.120	10.24 *	565.840	5.052
31			566.680	51.79 *	567.800	301.9 *			566.100	11.39		
Ten-Daily Mean												
I Ten-Daily	564.809	0.427	567.295	295.9	568.033	530.1	566.893	86.02	567.381	242.2	566.055	7.072
II Ten-Daily	566.078	13.03	567.104	234.9	567.179	158.3	567.053	137.8	566.481	33.77	565.956	6.395
III Ten-Daily	566.350	41.00	566.935	98.72	567.071	132.1	567.106	160.8	566.185	13.12	565.869	5.009
Monthly												
Min.	564.400	0.000	566.150	15.75	566.510	6.697	566.450	29.67	566.100	10.24	565.840	4.820
Max.	567.540	219.0	569.400	1260	570.050	1919	568.590	669.3	569.000	938.6	566.090	7.759
Mean	565.746	18.15	567.106	206.2	567.416	268.9	567.017	128.2	566.666	93.67	565.960	6.159

Annual Runoff in MCM = 1931 Annual Runoff in mm = 2169

Peak Observed Discharge = 25.91 cumecs on 20-07-2016 Corres. Water Level :566.29 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016 Corres. Water Level :564.4 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Cherribeda (Cherribeda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	565.830	4.683	565.700	1.792 *	565.670	0.790	565.550	0.157	565.450	0.000	565.170	0.000
2	565.840	3.603	565.700	1.792	565.670	0.792	565.550	0.159	565.450	0.000	565.170	0.000
3	565.840	3.507	565.700	1.696	565.670	0.839	565.550	0.169	565.450	0.000	565.160	0.000
4	565.830	3.322 *	565.690	1.858	565.670	0.928	566.640	0.969	565.450	0.000	565.160	0.000
5	565.820	3.322	565.750	1.486	565.550	0.111 *	565.550	0.111 *	565.440	0.000	565.160	0.000
6	565.820	3.192	565.750	1.511	565.660	0.375	565.540	0.126	565.440	0.000	565.150	0.000
7	565.810	3.068	565.740	1.348	565.660	0.348	565.540	0.121	565.440	0.000	565.650	0.498 *
8	565.810	3.095	565.740	1.904 *	565.650	0.324	565.540	0.119	565.430	0.000	565.700	2.158
9	565.800	3.006	565.740	1.904	565.650	0.288	565.540	0.114	565.420	0.000	565.600	0.653
10	565.800	3.000	565.730	1.430	565.640	0.326	565.540	0.111	565.400	0.000	565.570	0.161 *
11	565.790	2.483 *	565.730	1.291	565.640	0.305	565.560	0.204	565.370	0.000	565.550	0.245
12	565.780	2.483	565.730	1.375	565.630	0.390 *	565.630	0.390 *	565.360	0.000	565.540	0.240
13	565.780	2.463 *	565.730	1.355	565.630	0.252	565.630	0.503	565.350	0.000	565.540	0.163
14	565.770	2.463	565.730	1.334	565.620	0.250	565.580	0.342	565.340	0.000	565.520	0.057 *
15	565.770	2.444	565.720	1.212 *	565.620	0.284	565.570	0.296	565.330	0.000	565.510	0.000
16	565.760	2.090	565.720	1.212	565.610	0.329	565.560	0.255	565.320	0.000	565.470	0.000
17	565.760	2.065	565.720	1.271	565.610	0.355	565.550	0.228	565.310	0.000	565.450	0.000
18	565.750	2.089 *	565.710	1.103	565.610	0.387	565.540	0.209	565.300	0.000	565.430	0.000
19	565.760	2.089	565.710	1.087	565.530	0.072 *	565.530	0.072 *	565.290	0.000	565.410	0.000
20	565.760	2.077	565.710	1.075	565.590	0.281	565.520	0.111	565.280	0.000	565.390	0.000
21	565.750	2.030	565.700	1.077	565.580	0.292	565.520	0.096	565.270	0.000	565.370	0.000
22	565.750	1.963	565.700	1.050 *	565.580	0.276	565.500	0.072	565.260	0.000	565.350	0.000
23	565.740	1.877	565.700	1.050	565.580	0.241	565.500	0.065	565.250	0.000	565.330	0.000
24	565.740	1.745	565.690	1.222	565.570	0.222	565.490	0.000	565.240	0.000	565.320	0.000
25	565.730	1.871 *	565.690	0.844	565.570	0.212	565.490	0.000	565.230	0.000	565.290	0.000
26	565.730	1.871	565.690	0.734 *	565.560	0.134 *	565.480	0.000	565.220	0.000	565.260	0.000
27	565.730	2.076	565.680	0.734	565.560	0.155	565.480	0.000	565.210	0.000	565.210	0.000
28	565.720	2.033	565.680	0.657	565.560	0.155	565.470	0.000	565.200	0.000	565.120	0.000
29	565.720	1.977	565.680	0.828			565.470	0.000	565.190	0.000	565.060	0.000
30	565.710	1.985	565.680	0.828			565.460	0.000	565.180	0.000	565.030	0.000
31	565.710	2.033	565.680	0.814			565.460	0.000			565.010	0.000
Ten-Daily M												
I Ten-Daily	565.820	3.380	565.724	1.672	565.649	0.512	565.654	0.216	565.437	0.000	565.349	0.347
II Ten-Daily	565.768	2.275	565.721	1.232	565.609	0.291	565.567	0.261	565.325	0.000	565.481	0.070
III Ten-Daily	565.730	1.951	565.688	0.894	565.570	0.211	565.484	0.021	565.225	0.000	565.214	0.000
Monthly												
Min.	565.710	1.745	565.680	0.657	565.530	0.072	565.460	0.000	565.180	0.000	565.010	0.000
Max.	565.840	4.683	565.750	1.904	565.670	0.928	566.640	0.969	565.450	0.000	565.700	2.158
Mean	565.771	2.516	565.710	1.254	565.612	0.347	565.565	0.161	565.329	0	565.344	0.135

Peak Computed Discharge = 1919 cumecs on 06-08-2016 Corres. Water Level :570.05 m

Lowest Computed Discharge = 0.057 cumecs on 14-05-2017 Corres. Water Level :565.52 m

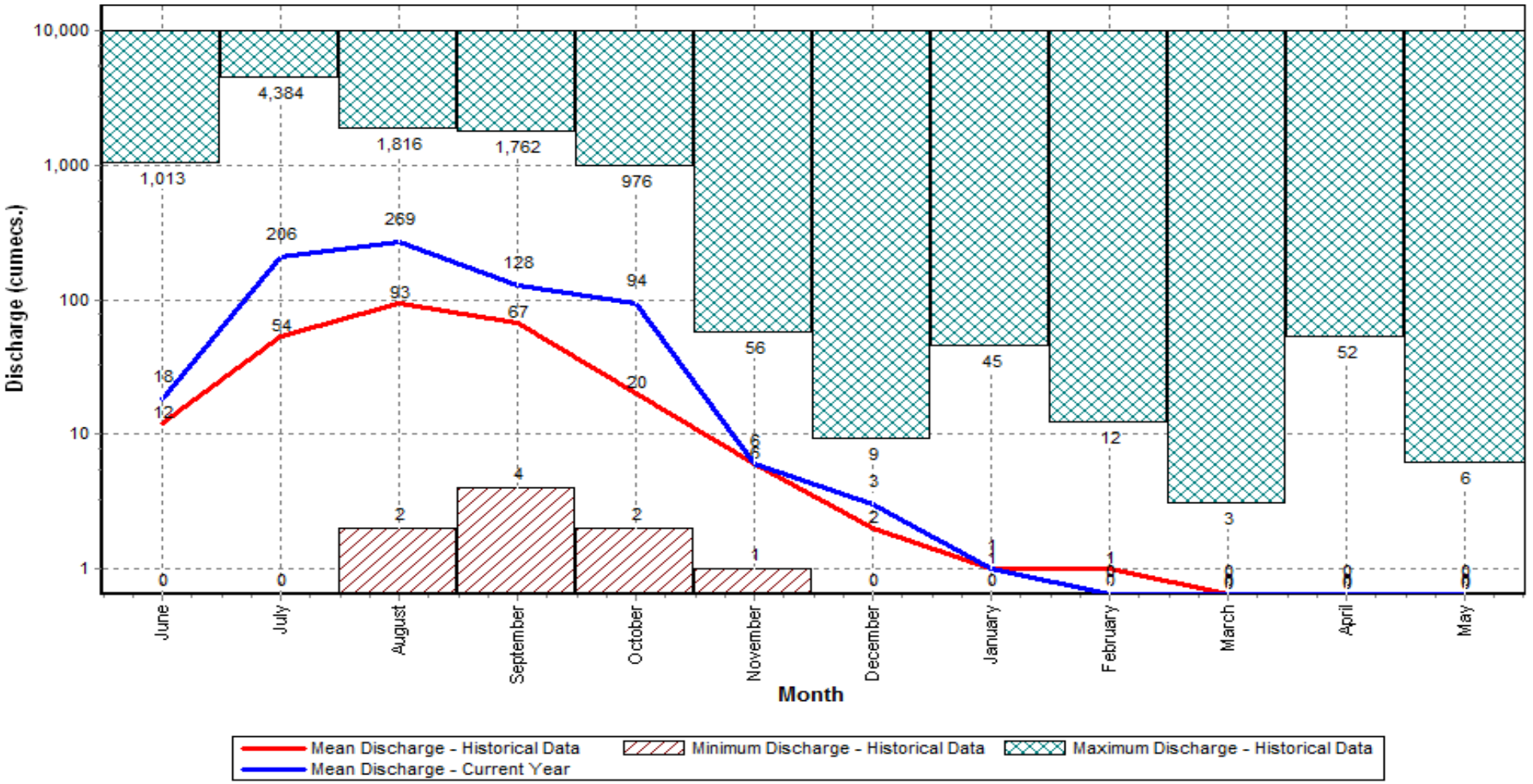
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Cherribeda (Cherribeda) | **Data considered : 1996-2017** | **Division : Lower Godavari Div., Hyderabad**

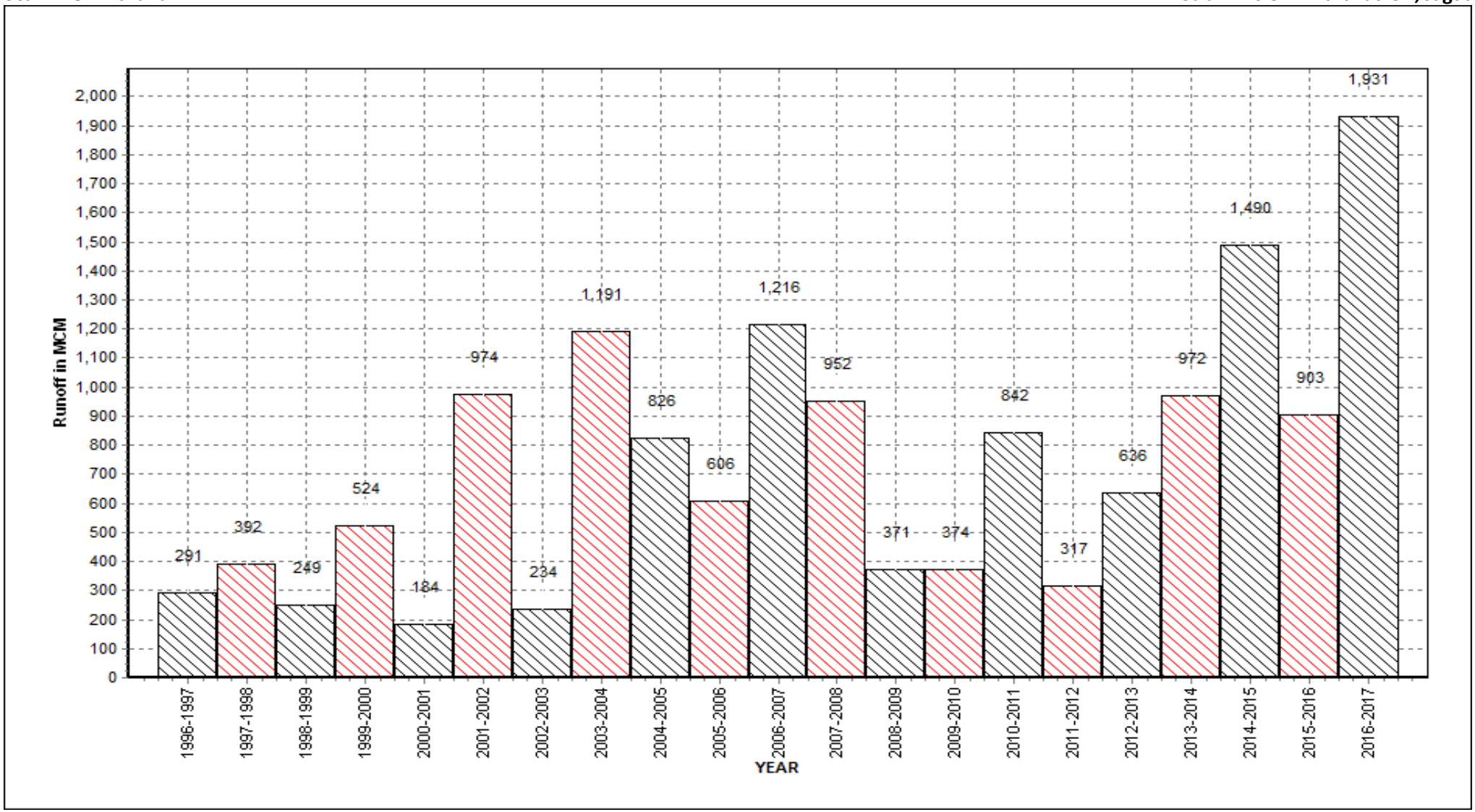
Local River : Bardha | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1996 - 2017

Station Name : Cherribeda (Cherribeda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

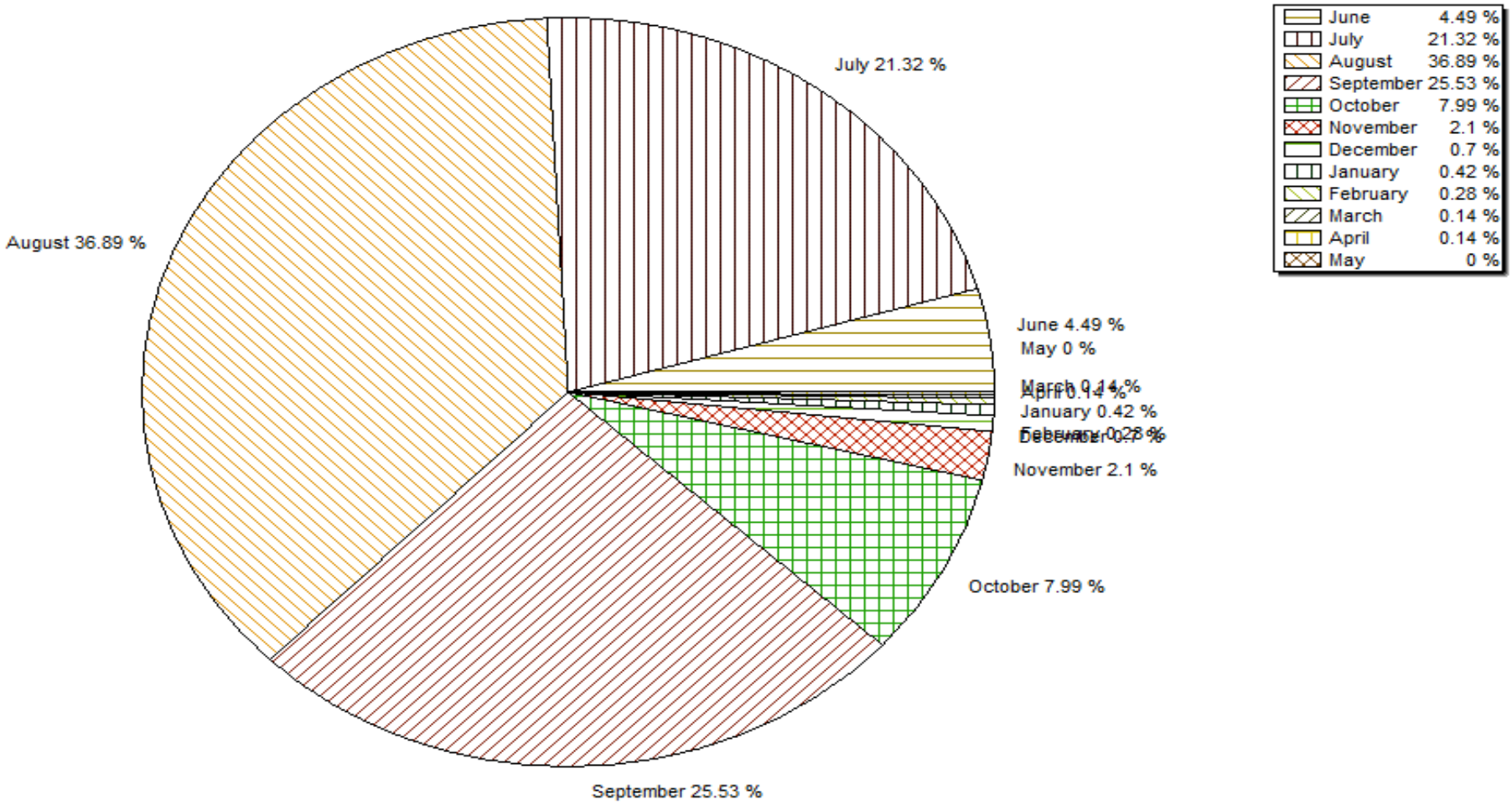
Monthly Average Runoff based on period : 1996-2016

Station Name : Cherribeda (Cherribeda)

Local River : Bardha

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



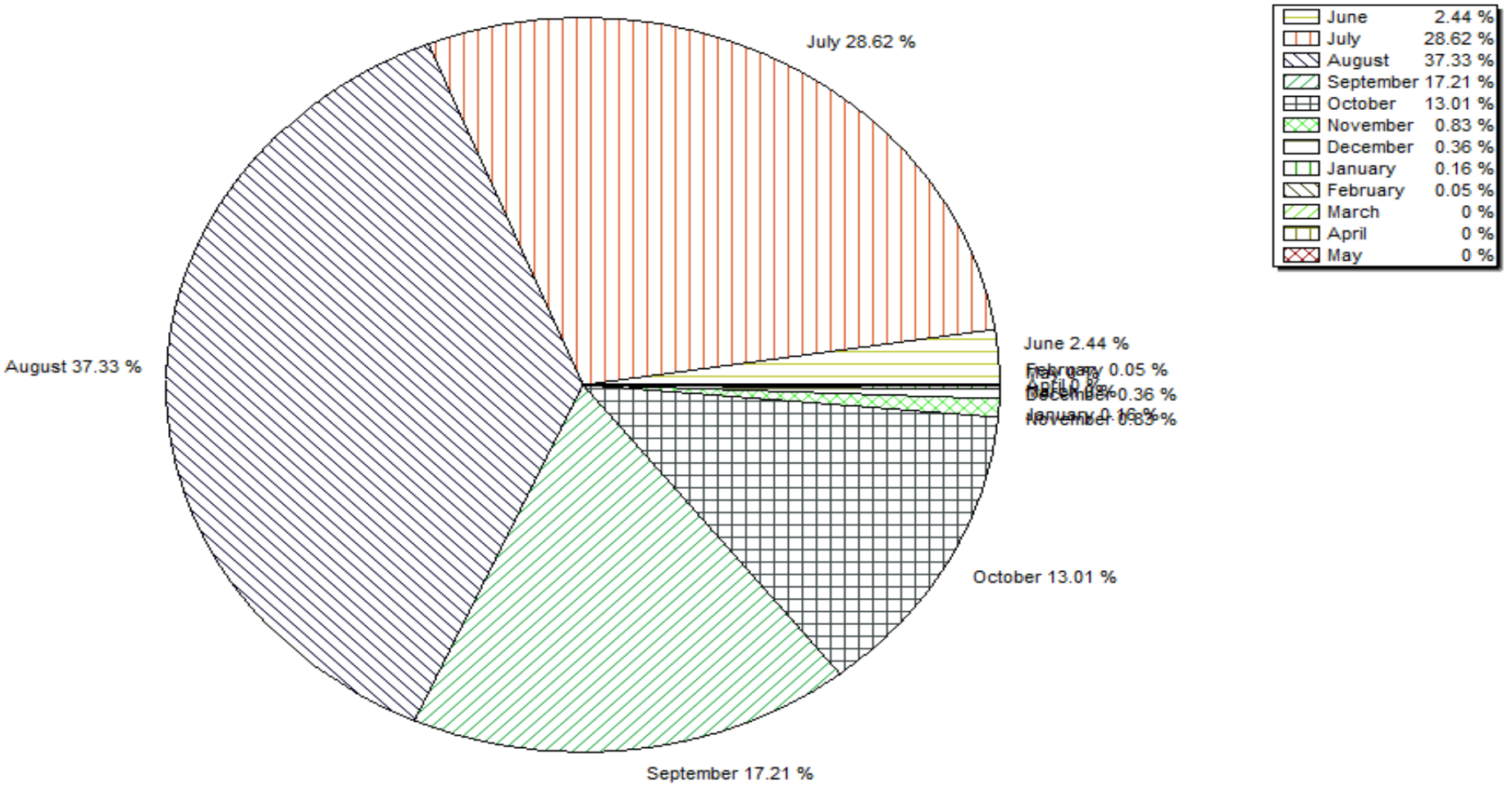
Monthly Runoff for the Year : 2016-2017

Station Name : Cherribeda (Cherribeda)

Local River : Bardha

Division : Lower Godavari Div., Hyderabad

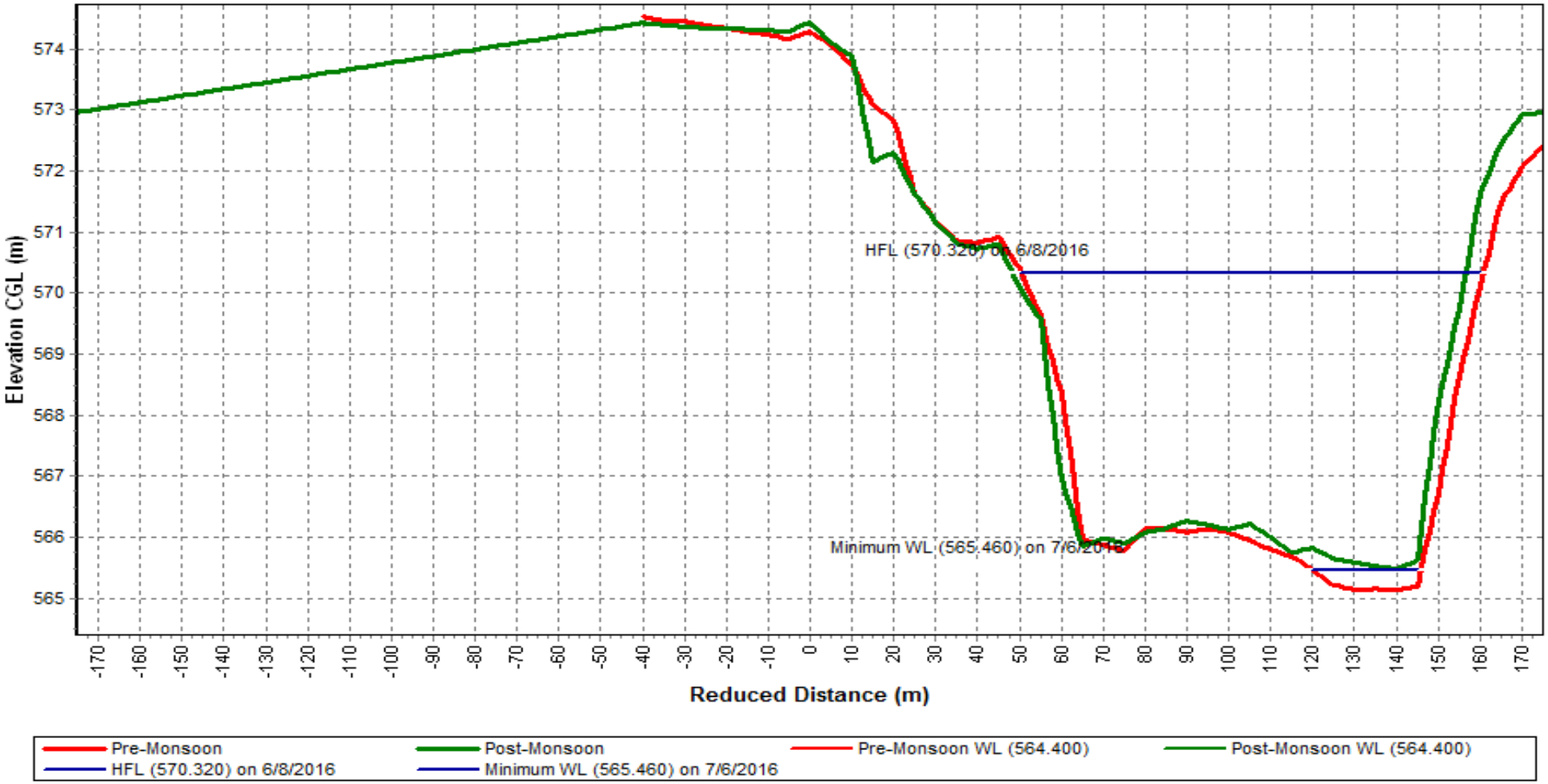
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Cherribeda (Cherribeda) **Division : Lower Godavari Div., Hyderabad**

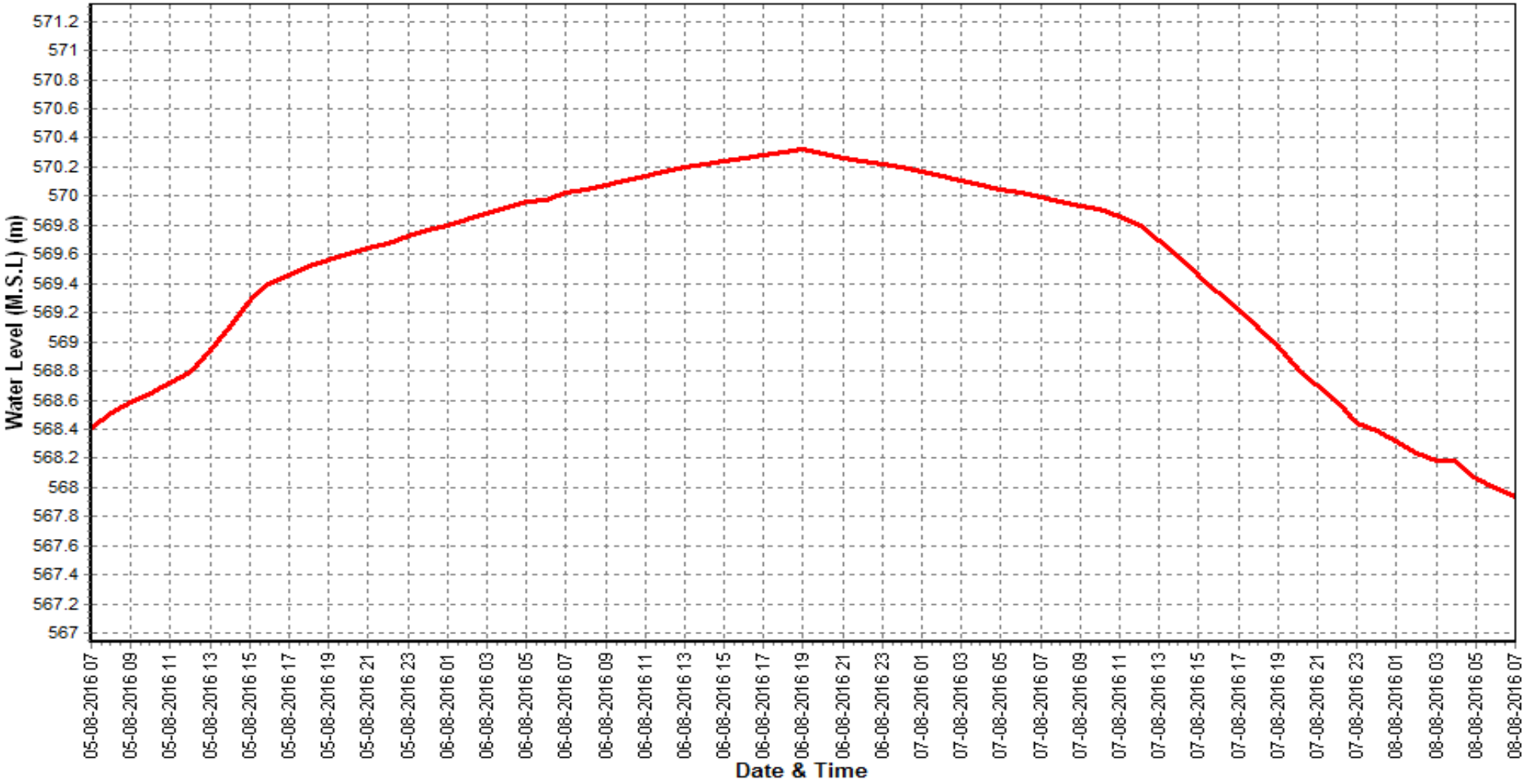
Local River : Bardha **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Cherribeda (Cherribeda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravati SD, Jagdalpur**

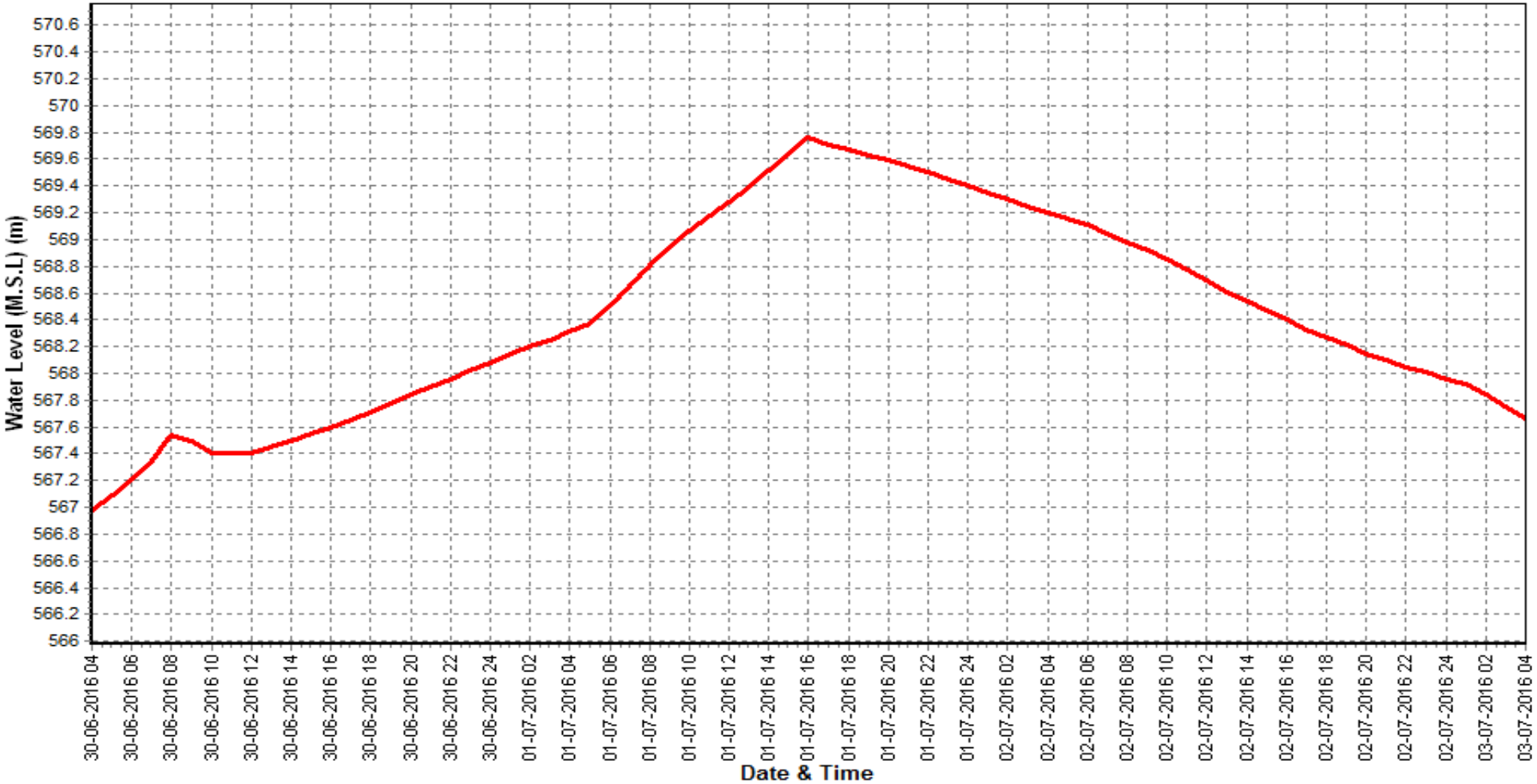


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Cherribeda (Cherribeda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravati SD, Jagdalpur**

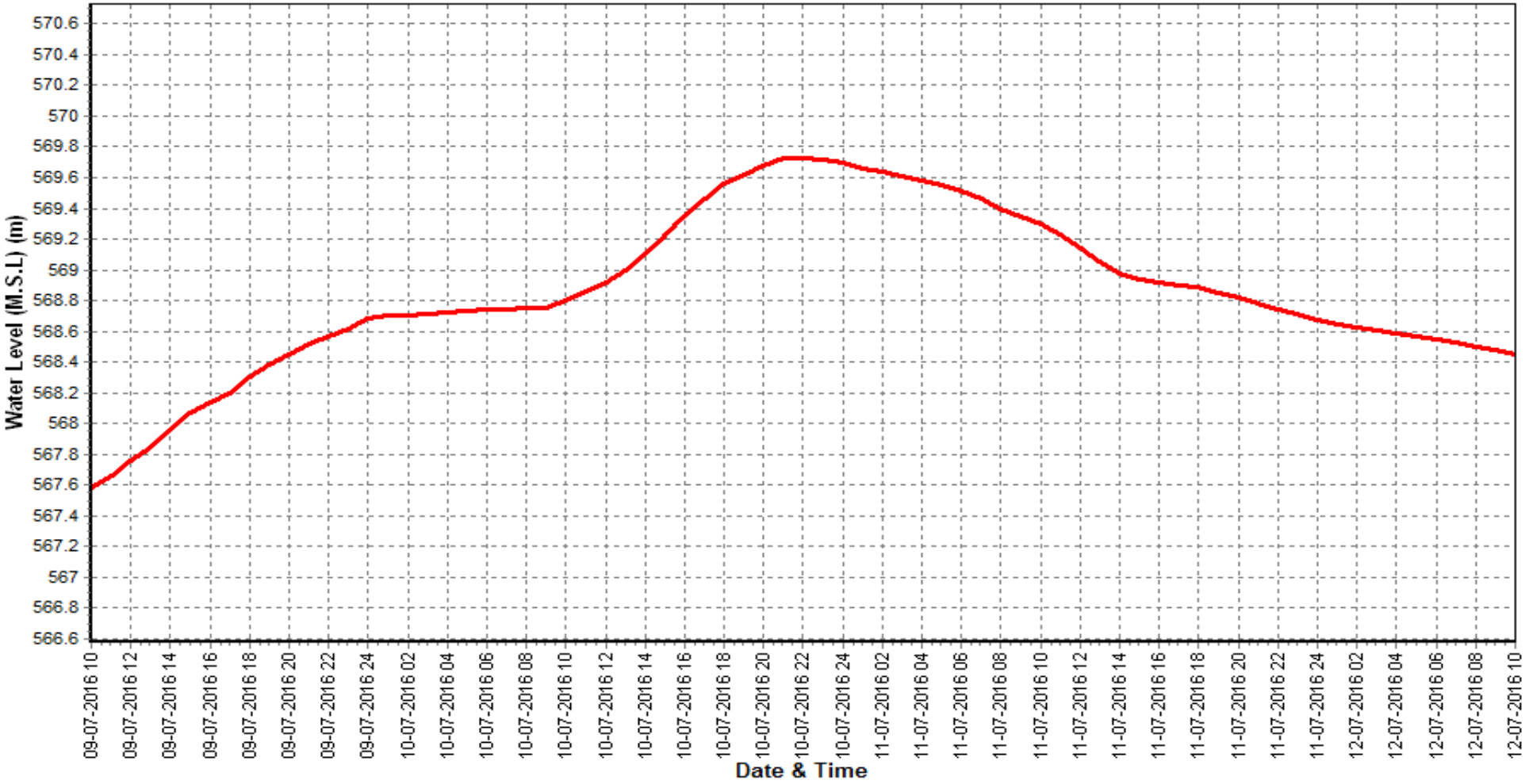


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Cherribeda (Cherribeda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bardha **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Ambabal**		**Code**	**: AGC90C8**	
State	: Chhattisgarh		District	Bastar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: Narangi	
Sub-Sub Tributary	: -		Local River	: Narangi	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: 1968 Sq. Km.		Bank	: Left	
Latitude	: 19°17'00"		Longitude	: 81°47'20"	
Zero of Gauge (m)	: 84 (m.s.l)		01.06.1989	- 31.10.1992	
	533.136 (m.s.l)		01.11.1992	- 30.11.2000	
	534 (m.s.l)		01.12.2000		
	Opening Date		Closing Date		
Gauge	: 09.12.1988		**HFL During 2016-17**	**: 539.23**	
			Corres.Discharge	**: 539.8313 Cumecs(Estimated)**	
Discharge	: 30.10.1993		**Date& Time of Occurance**	**: 07.08.2016 : 08:00**	
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1993-1994	521.5	539.286	15.07.1993	0.000	535.041	19.03.1994
1994-1995	1180	541.756	05.09.1994	3.602	534.996	13.06.1994
1995-1996	774.4	540.476	24.07.1995	0.000	535.431	07.03.1996
1996-1997	511.5	538.796	16.08.1996	0.000	535.266	02.03.1997
1997-1998	360.0	538.131	22.08.1997	0.000	535.286	31.05.1998
1998-1999	145.5	537.226	08.09.1998	0.000		02.05.1999
1999-2000	456.3	538.511	04.08.1999	0.000		30.04.2000
2000-2001	567.9	538.816	30.08.2000	0.000		28.03.2001
2001-2002	1303	540.720	20.08.2001	0.000	534.540	23.05.2002
2002-2003	476.3	538.280	24.08.2002	0.000		07.04.2003
2003-2004	604.0	539.140	25.07.2003	0.000	534.850	09.03.2004
2004-2005	771.3	539.500	15.06.2004	0.000	534.795	02.04.2005
2005-2006	551.4	538.965	14.09.2005	0.000	534.810	17.03.2006
2006-2007	2243	542.450	05.07.2006	0.011	534.580	09.04.2007
2007-2008	1770	541.550	08.08.2007	0.000	534.800	24.04.2008
2008-2009	398.3	537.850	28.07.2008	0.000	534.820	07.02.2009
2009-2010	525.4	538.240	27.08.2009	0.000	535.050	11.02.2010
2010-2011	1220	541.730	06.08.2010	0.000	536.580	12.02.2011
2011-2012	258.6	538.310	01.09.2011	0.000	536.550	06.12.2011
2012-2013	585.1	538.900	06.08.2012	0.000	536.540	29.01.2013
2013-2014	658.4	539.150	25.06.2013	0.000	536.030	01.03.2014
2014-2015	1862	539.930	22.07.2014	0.000	536.570	06.03.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2015-2016	618.3	539.340	17.09.2015	0.000	536.550	25.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	535.790	0.000	538.130	248.3 *	537.220	79.01	537.550	148.9	537.585	164.2	535.400	10.83 *
2	535.760	0.000	537.320	103.1 *	537.325	114.3	537.215	93.09	537.210	87.95 *	535.400	10.83
3	535.750	0.000	537.060	69.00 *	537.165	92.56	537.230	93.72	537.015	84.02	535.400	3.258 *
4	535.740	0.000	536.920	53.13 *	537.550	160.1	537.390	113.4 *	536.805	48.02	535.310	3.257 *
5	535.730	0.000	536.860	46.87 *	537.765	214.5	537.180	83.99 *	536.655	34.88	535.340	3.257 *
6	535.720	0.000	536.850	45.86 *	538.070	235.6 *	537.015	63.01	536.765	47.10	535.280	3.257 *
7	535.730	0.000	536.800	40.93 *	539.230	539.8 *	536.795	40.10	537.170	76.52	535.320	3.257 *
8	535.730	0.000	536.800	40.93 *	538.180	259.2 *	536.530	35.68	537.380	177.2	535.300	3.257 *
9	535.730	0.000	536.900	51.01 *	537.620	168.9	535.920	32.99	538.480	329.3 *	535.300	3.257 *
10	535.730	0.000	538.360	300.3 *	537.170	72.72	537.175	129.5	538.450	321.9 *	535.290	3.257
11	535.730	0.000	538.440	319.5 *	536.960	73.09	538.190	261.4 *	537.540	136.7 *	535.230	3.073
12	535.730	0.000	538.090	239.8 *	536.835	46.41	538.380	305.1 *	537.100	73.85 *	535.240	2.927
13	535.730	0.000	537.450	122.5 *	536.820	42.11	537.900	201.1 *	536.885	55.82	535.240	2.927 *
14	536.300	0.000	537.210	87.95 *	536.740	35.32 *	537.570	160.3	536.685	40.75	535.250	2.927 *
15	536.810	41.90 #	537.040	66.62 *	536.650	27.50 *	537.330	121.2	536.585	41.45	535.300	2.927 *
16	536.750	36.23 #	536.940	55.29 *	536.700	34.44	537.095	75.76	536.240	22.01 *	535.380	2.930 *
17	536.730	34.41 #	536.880	48.92 *	537.080	72.26	536.915	50.36	536.015	22.00	535.400	2.928 *
18	536.820	42.88 #	536.840	44.86 *	537.035	64.10	536.860	46.87 *	535.970	20.72	536.140	2.932 *
19	536.820	42.88 #	536.850	45.86 *	536.805	48.27	537.130	81.59	535.810	19.62	536.300	2.931 *
20	536.700	31.75 #	536.770	38.09 *	536.365	30.83	537.120	74.48	535.660	14.38	536.380	8.416 *
21	535.480	0.000	536.620	25.06 *	535.650	14.40 *	537.395	129.8	535.550	16.71	536.340	6.144 *
22	535.030	0.000	536.770	38.09 *	535.495	14.40	537.090	74.21	535.490	15.81	536.160	6.142 *
23	535.050	0.000	537.140	78.85 *	535.450	13.12	536.870	55.22	535.450	11.72 *	535.780	6.138 *
24	535.150	0.000	537.450	122.5 *	535.420	11.01	536.610	51.89	535.450	11.72	535.630	6.136 *
25	536.950	56.38 *	537.380	111.9 *	535.390	10.35	536.380	8.416 *	535.430	12.33	535.400	6.134 *
26	537.250	93.34 *	537.170	82.70 *	535.440	13.15	536.125	26.98	535.400	10.61	535.180	2.741 *
27	537.280	97.48 *	536.980	59.72 *	538.180	259.2 *	536.815	56.93	535.380	10.47	535.140	4.777 *
28	537.120	76.33 *	537.120	76.33 *	537.500	130.3 *	537.030	93.34	535.380	10.86	535.200	1.776 *
29	537.450	122.5 *	536.850	45.86 *	537.025	79.02	538.250	274.9 *	535.360	8.766	536.530	18.21 *
30	537.660	156.9 *	536.720	33.52 *	536.710	47.98	538.030	227.2 *	535.400	19.31 *	536.610	24.26 *
31			536.740	35.32 *	538.130	248.3 *			535.630	19.32		
Ten-Daily Mean												
I Ten-Daily	535.741	0.000	537.200	99.95	537.729	193.7	537.000	83.43	537.352	137.1	535.334	4.772
II Ten-Daily	536.412	23.01	537.251	106.9	536.799	47.43	537.449	137.8	536.449	44.73	535.586	3.492
III Ten-Daily	536.442	60.29	536.995	64.52	536.399	76.48	537.060	99.89	535.447	13.42	535.797	8.246
Monthly												
Min.	535.030	0.000	536.620	25.06	535.390	10.35	535.920	8.416	535.360	8.766	535.140	1.776
Max.	537.660	156.9	538.440	319.5	539.230	539.8	538.380	305.1	538.480	329.3	536.610	24.26
Mean	536.198	27.77	537.144	89.63	536.957	104.9	537.170	107	536.385	63.42	535.572	5.503

Annual Runoff in MCM = 1117 Annual Runoff in mm = 567

Peak Observed Discharge = 214.5 cumecs on 05-08-2016 Corres. Water Level :537.765 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016 Corres. Water Level :535.79 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	536.630	25.86 *	536.590	0.000	536.370	0.000	536.200	0.000	535.730	0.000	535.460	0.000
2	536.620	25.06 *	536.590	0.000	536.370	0.000	536.200	0.000	535.730	0.000	535.600	0.000
3	536.620	25.06 *	536.590	0.000	536.360	0.000	536.200	0.000	535.700	0.000	535.720	0.000
4	536.620	25.06 *	536.590	0.000	536.360	0.000	536.200	0.000	535.680	0.000	535.850	0.000
5	536.610	24.26 *	536.590	0.000	536.360	0.000	536.180	0.000	535.640	0.000	535.950	0.000
6	536.610	24.26 *	536.590	0.000	536.350	0.000	536.160	0.000	535.640	0.000	536.110	0.000
7	536.610	24.26 *	536.590	0.000	536.350	0.000	536.140	0.000	535.640	0.000	536.110	0.000
8	536.610	24.26 *	536.590	0.000	536.350	0.000	536.100	0.000	535.640	0.000	536.120	0.000
9	536.610	24.26 *	536.590	0.000	536.350	0.000	536.090	0.000	535.620	0.000	536.100	0.000
10	536.610	24.26 *	536.590	0.000	536.350	0.000	536.080	0.000	535.620	0.000	536.110	0.000
11	536.610	24.26 *	536.590	0.000	536.350	0.000	536.060	0.000	535.600	0.000	536.120	0.000
12	536.610	24.26 *	536.590	0.000	536.350	0.000	536.040	0.000	535.490	0.000	536.150	0.000
13	536.600	23.47 *	536.590	0.000	536.350	0.000	536.030	0.000	535.380	0.000	536.160	0.000
14	536.590	22.70 *	536.590	0.000	536.350	0.000	536.000	0.000	535.260	0.000	536.160	0.000
15	536.590	22.70 *	536.590	0.000	536.350	0.000	536.000	0.000	535.150	0.000	536.150	0.000
16	536.590	22.70 *	536.590	0.000	536.350	0.000	536.000	0.000	535.070	0.000	536.160	0.000
17	536.590	22.70 *	536.590	0.000	536.350	0.000	536.000	0.000	534.950	0.000	536.200	0.000
18	536.590	22.70 *	536.590	0.000	536.340	0.000	536.000	0.000	534.870	0.000	536.170	0.000
19	536.590	22.70 *	536.590	0.000	536.340	0.000	536.000	0.000	534.760	0.000	536.240	0.000
20	536.580	21.93 *	536.590	0.000	536.330	0.000	535.900	0.000	534.650	0.000	536.280	0.000
21	536.580	21.93 *	536.510	0.000	536.320	0.000	535.890	0.000	534.570	0.000	536.240	0.000
22	536.580	21.93 *	536.510	0.000	536.300	0.000	535.850	0.000	534.500	0.000	536.200	0.000
23	536.580	21.93 *	536.510	0.000	536.280	0.000	535.850	0.000	534.430	0.000	535.800	0.000
24	536.580	21.93 *	536.450	0.000	536.280	0.000	535.830	0.000	534.360	0.000	535.800	0.000
25	536.580	21.93 *	536.440	0.000	536.270	0.000	535.830	0.000	534.000	0.000	535.740	0.000
26	536.580	21.93 *	536.430	0.000	536.250	0.000	535.830	0.000	534.000	0.000	535.660	0.000
27	536.580	21.93 *	536.430	0.000	536.230	0.000	535.830	0.000	534.000	0.000	535.680	0.000
28	536.580	21.93 *	536.400	0.000	536.220	0.000	535.800	0.000	534.000	0.000	535.700	0.000
29	536.580	21.93 *	536.400	0.000			535.790	0.000	534.000	0.000	535.680	0.000
30	536.580	21.93 *	536.390	0.000			535.780	0.000	534.000	0.000	535.680	0.000
31	536.580	21.93 *	536.380	0.000			535.770	0.000			535.600	0.000
Ten-Daily M												
I Ten-Daily	536.615	24.66	536.590	0.000	536.357	0.000	536.155	0.000	535.664	0.000	535.913	0.000
II Ten-Daily	536.594	23.01	536.590	0.000	536.346	0.000	536.003	0.000	535.118	0.000	536.179	0.000
III Ten-Daily	536.580	21.93	536.441	0.000	536.269	0.000	535.823	0.000	534.186	0.000	535.798	0.000
Monthly												
Min.	536.580	21.93	536.380	0.000	536.220	0.000	535.770	0.000	534.000	0.000	535.460	0.000
Max.	536.630	25.86	536.590	0.000	536.370	0.000	536.200	0.000	535.730	0.000	536.280	0.000
Mean	536.596	23.16	536.537	0	536.328	0	535.988	0	534.989	0	535.958	0

Peak Computed Discharge = 539.8 cumecs on 07-08-2016 Corres. Water Level :539.23 m

Lowest Computed Discharge = 1.776 cumecs on 28-11-2016 Corres. Water Level :535.2 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

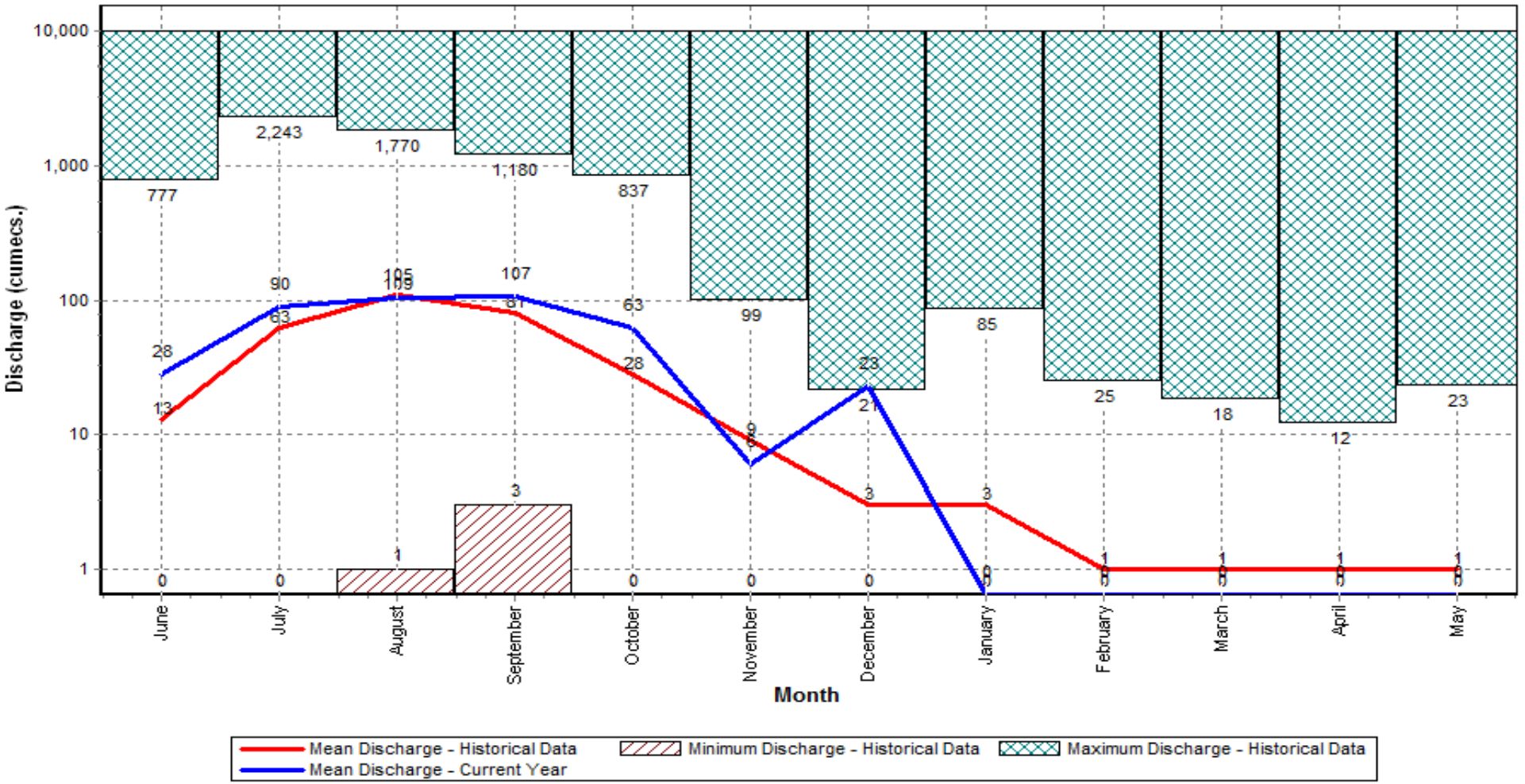
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Ambabal (AGC90C8) | **Data considered : 1993-2017** | **Division : Lower Godavari Div., Hyderabad**

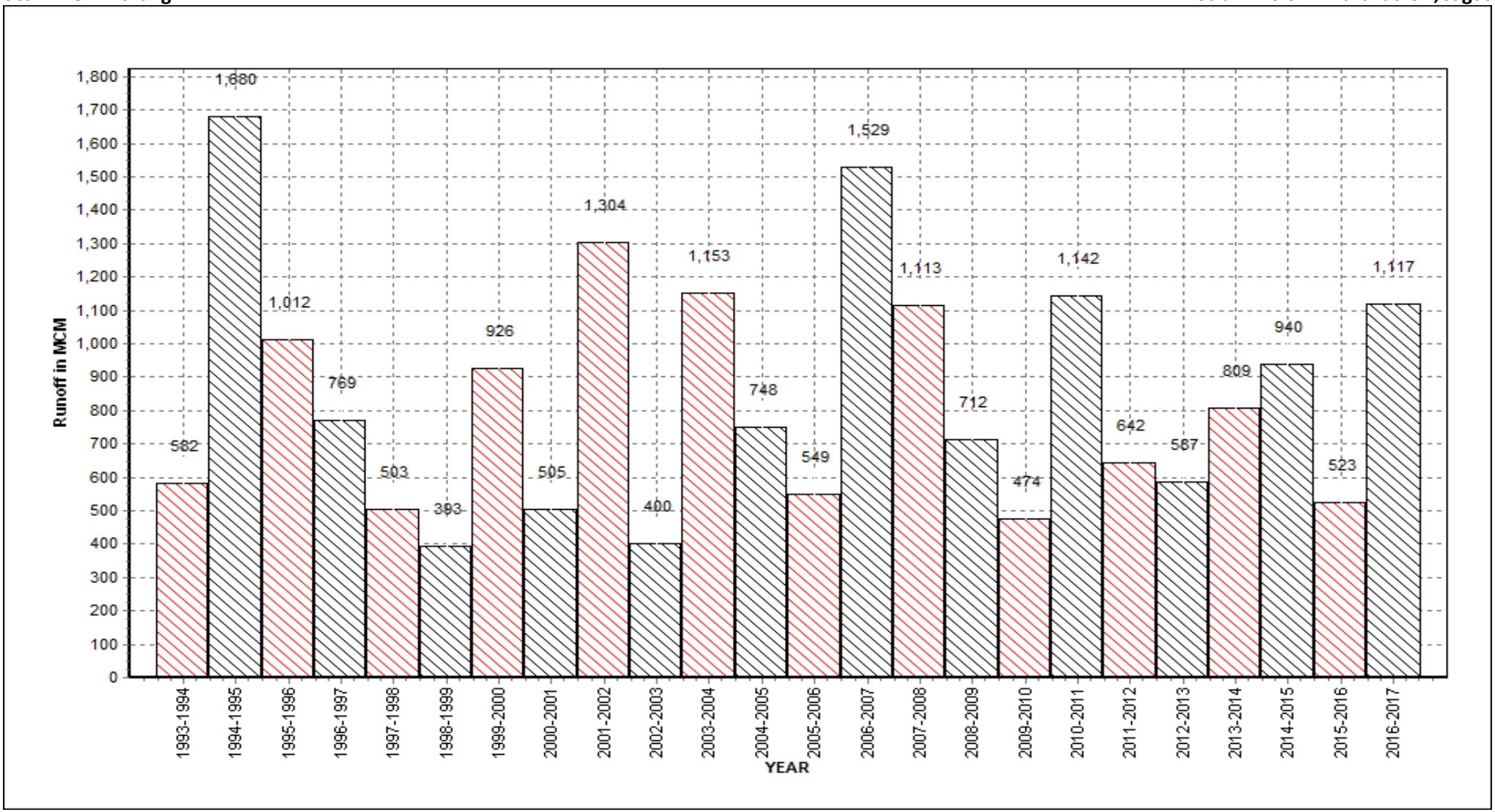
Local River : Narangi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1993 - 2017

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

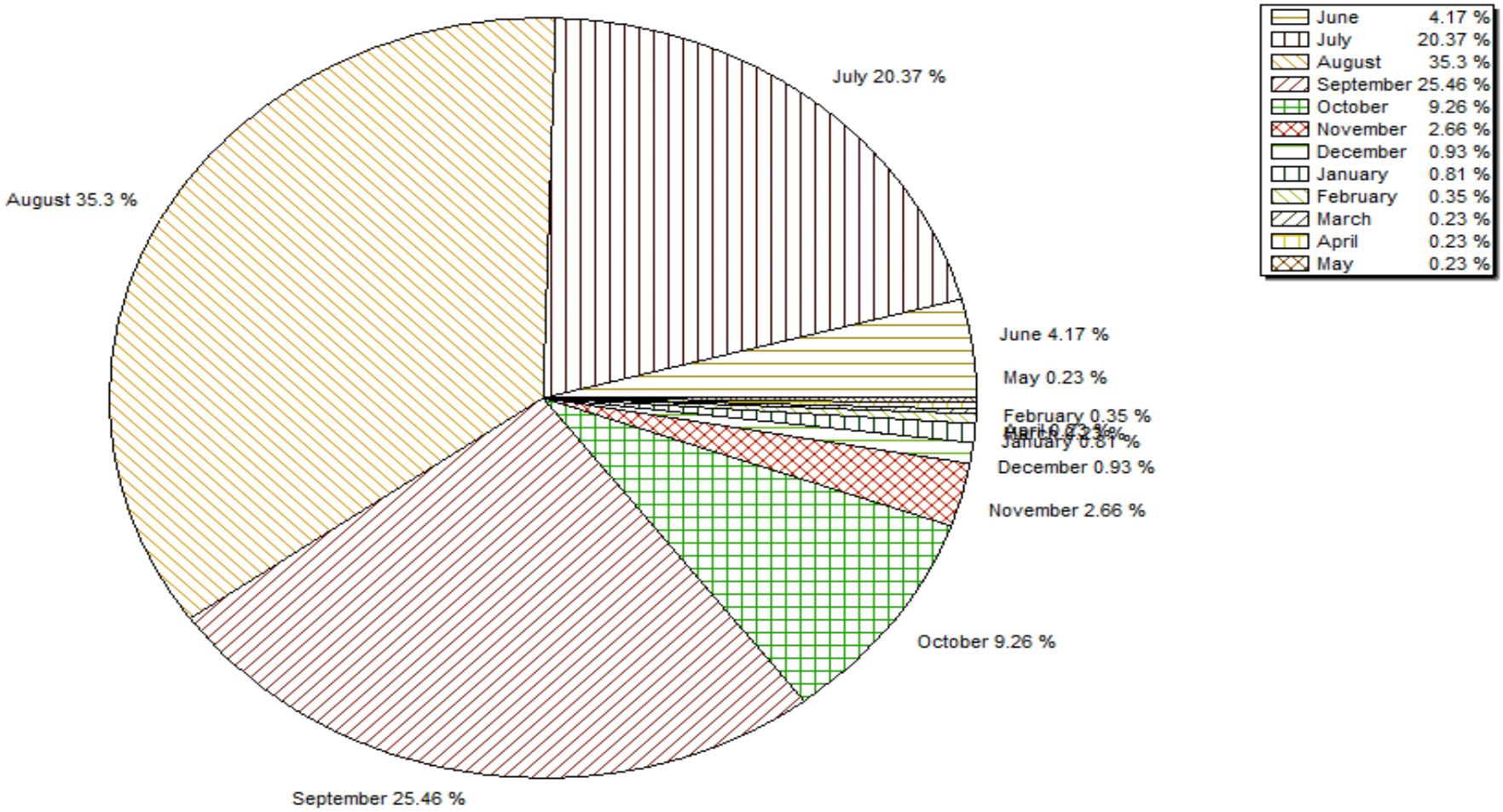
Monthly Average Runoff based on period : 1993-2016

Station Name : Ambabal (AGC90C8)

Local River : Narangi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



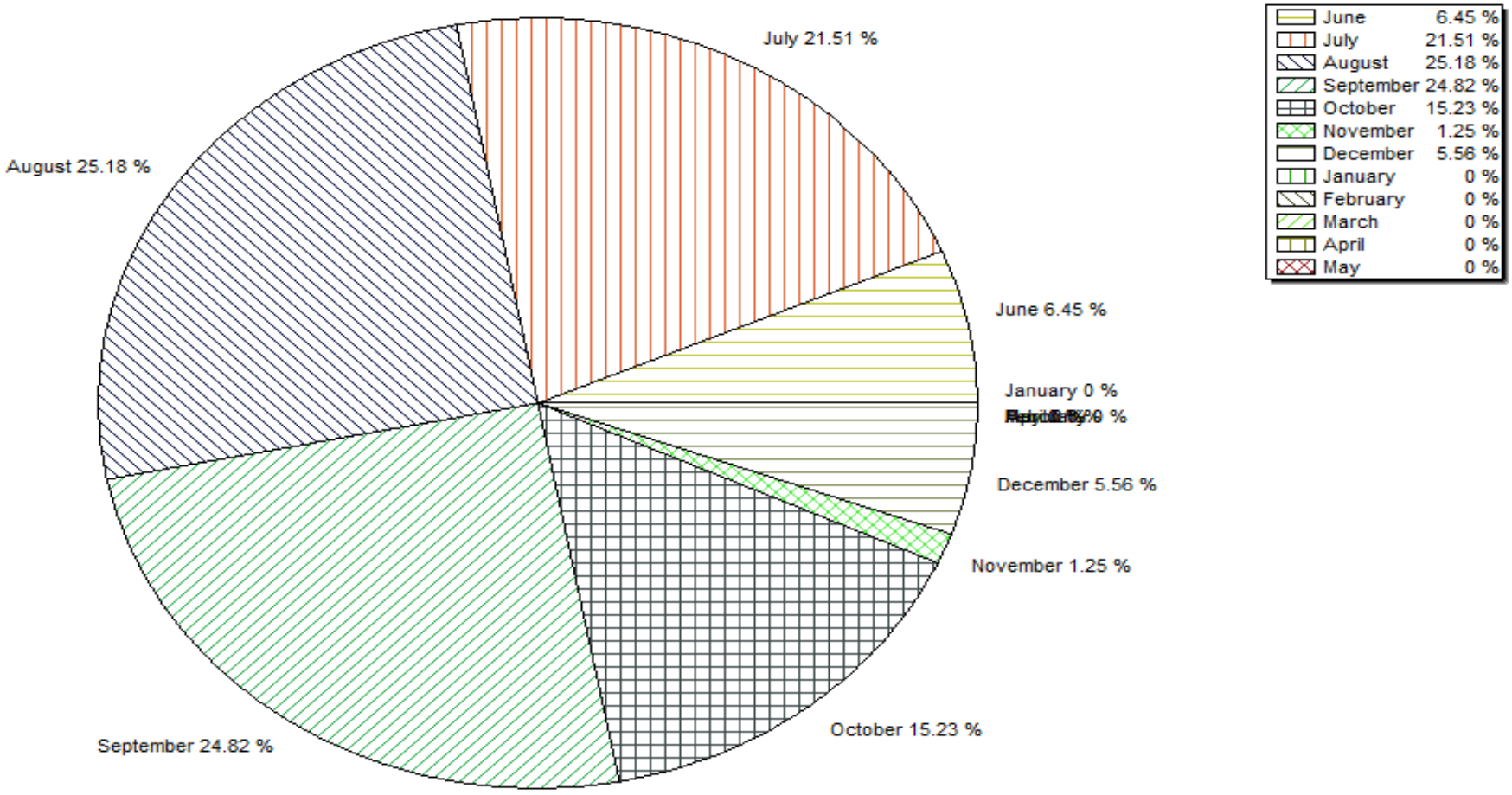
Monthly Runoff for the Year : 2016-2017

Station Name : Ambabal (AGC90C8)

Local River : Narangi

Division : Lower Godavari Div., Hyderabad

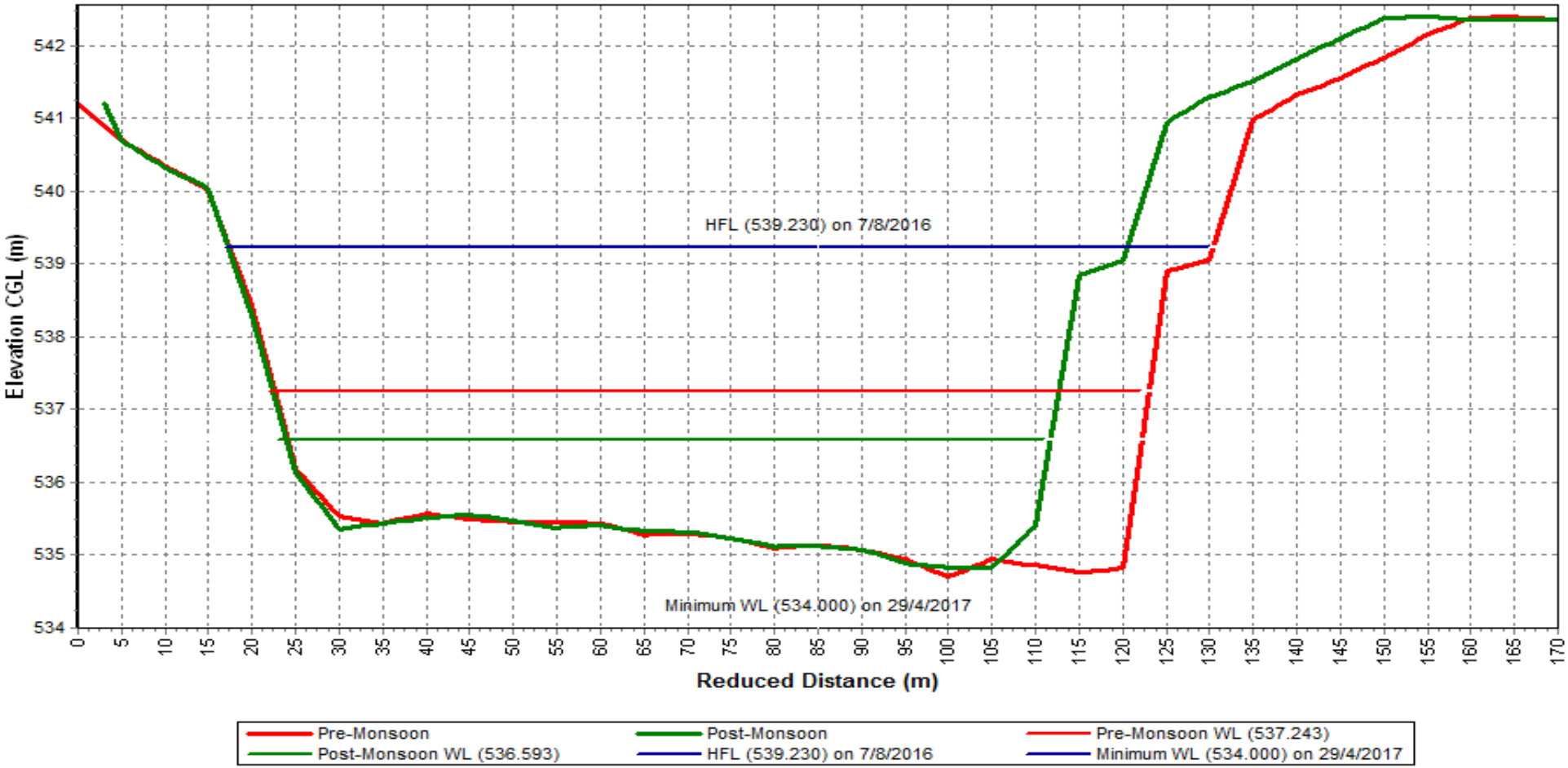
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

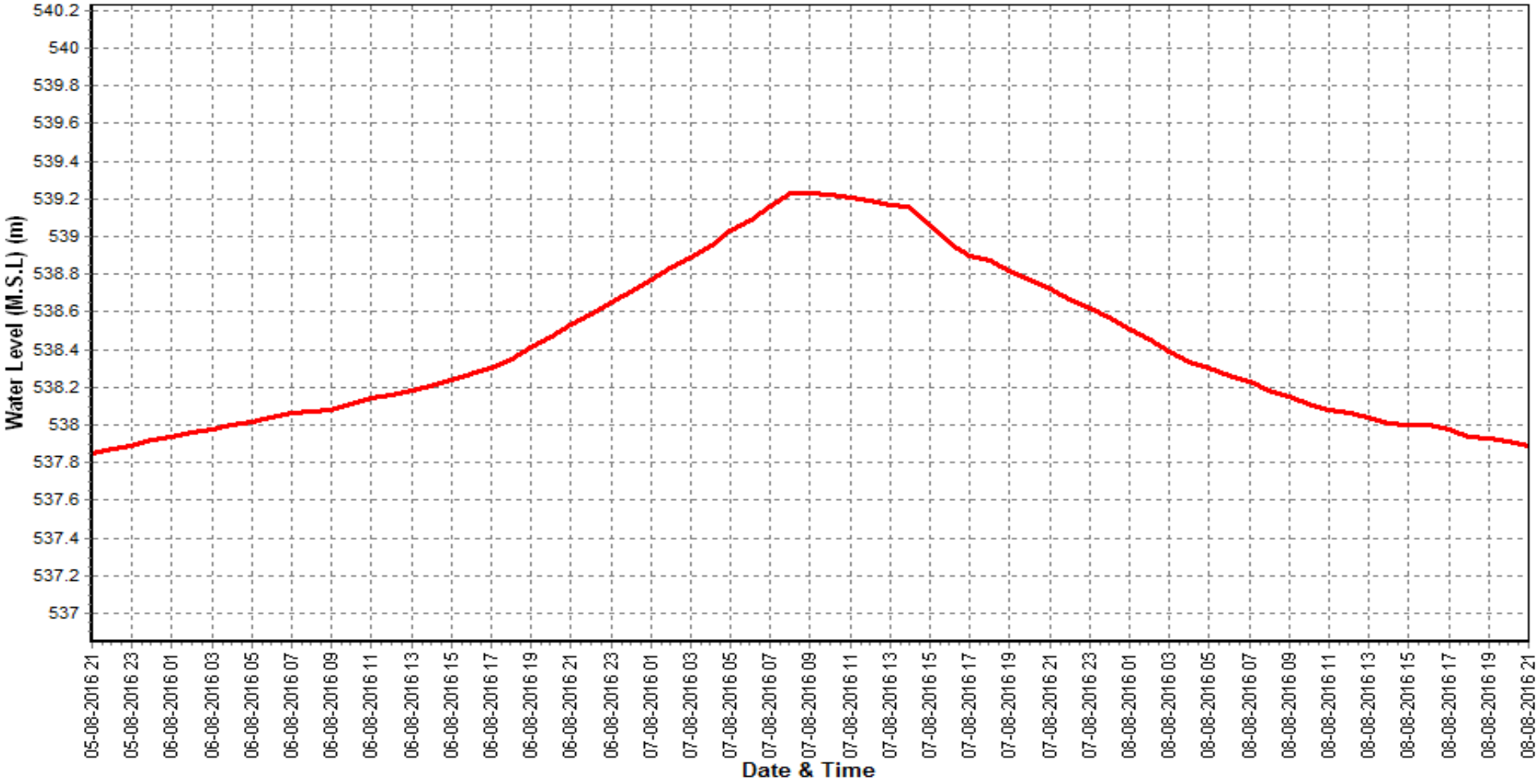
Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

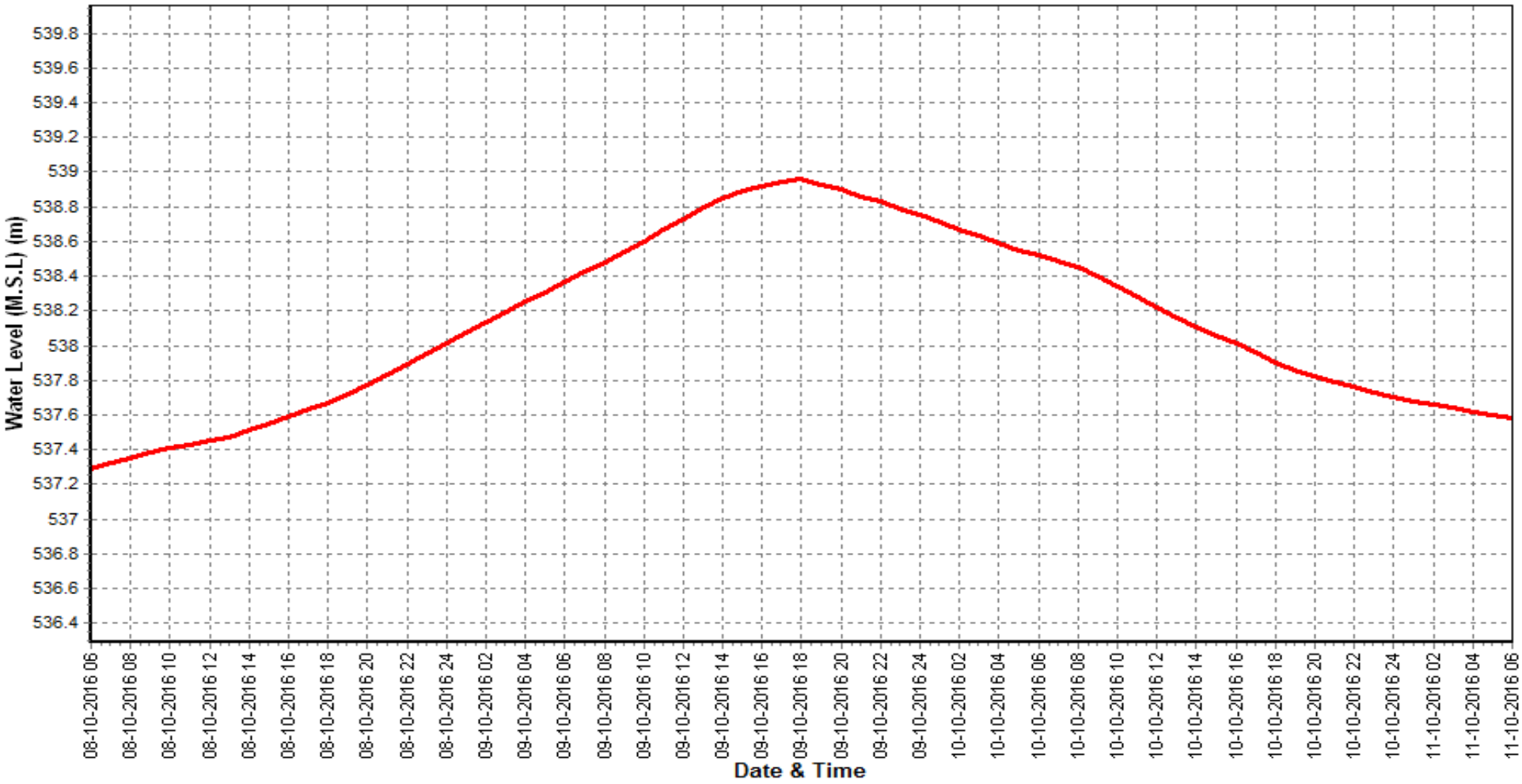


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**

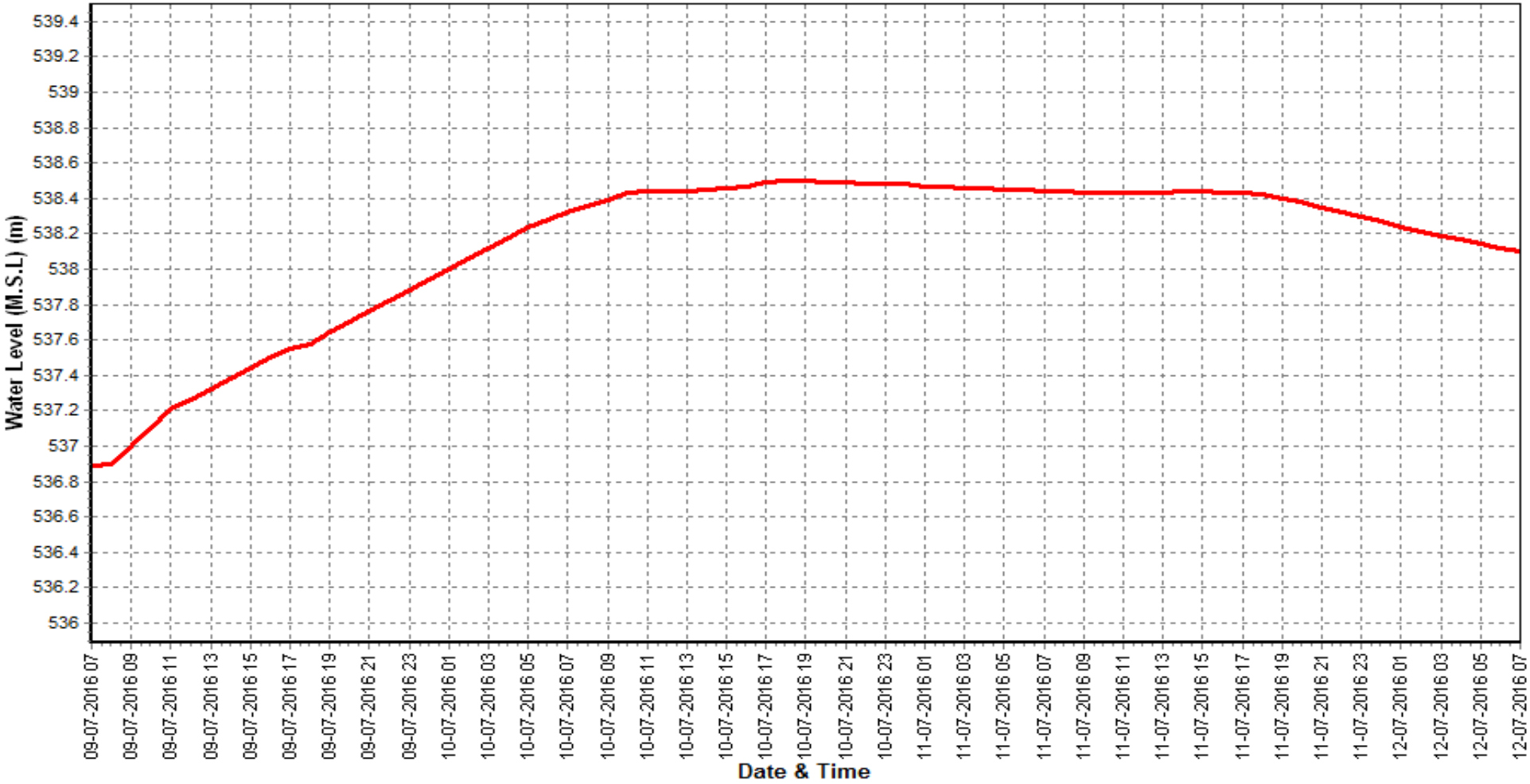


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Ambabal (AGC90C8) **Division : Lower Godavari Div., Hyderabad**

Local River : Narangi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Sonarpal**		**Code**	**: AGG91F2**	
State	: Chhattisgarh		District	Bastar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: Markandi	
Sub-Sub Tributary	: -		Local River	: Markandi	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: 1523 Sq. Km.		Bank	: Right	
Latitude	: 19°16'00"		Longitude	: 81°52'00"	
Zero of Gauge (m)	: 534.356 (m.s.l) 534 (m.s.l)		01.07.1989 01.12.2000	- 30.11.2000	
	Opening Date		Closing Date		
Gauge	: 01.07.1989		**HFL During 2016-17**	**: 539.5**	
			Corres.Discharge	**: 657.855 Cumecs(Estimated)**	
Discharge	: 05.12.1991		**Date& Time of Occurance**	**: 10.07.2016 : 20:00**	
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1992-1993	1160	541.886	28.07.1992	0.000	535.146	03.05.1993
1993-1994	519.2	539.756	06.09.1993	0.007	535.186	23.04.1994
1994-1995	1247	542.106	30.08.1994	0.243	535.176	15.04.1995
1995-1996	1373	542.456	24.07.1995	3.822	535.206	01.06.1995
1996-1997	437.8	539.386	21.07.1996	0.004	535.216	03.04.1997
1997-1998	303.1	538.446	20.09.1997	0.000	535.146	23.04.1998
1998-1999	285.7	538.456	16.08.1998	0.000		23.04.1999
1999-2000	540.0	539.456	04.08.1999	0.000		22.04.2000
2000-2001	689.3	540.246	30.08.2000	0.000		05.04.2001
2001-2002	909.3	540.800	20.08.2001	0.000	534.210	16.03.2002
2002-2003	804.6	540.650	24.08.2002	0.139	534.540	02.06.2002
2003-2004	683.3	540.120	25.07.2003	0.000	534.490	28.06.2003
2004-2005	781.2	540.650	15.06.2004	0.000	534.540	23.05.2005
2005-2006	599.2	539.450	14.09.2005	0.002	534.530	13.03.2006
2006-2007	1509	542.570	04.07.2006	0.000	534.635	04.04.2007
2007-2008	1260	541.600	07.08.2007	0.000	534.605	17.03.2008
2008-2009	462.2	539.155	29.07.2008	0.000	534.620	14.03.2009
2009-2010	408.1	538.585	27.08.2009	0.000	534.440	08.04.2010
2010-2011	1546	542.350	06.08.2010	0.000	534.580	02.05.2011
2011-2012	245.1	537.630	21.09.2011	0.000	534.760	26.01.2012
2012-2013	478.2	539.100	06.08.2012	0.000	534.600	01.02.2013
2013-2014	581.1	539.200	14.06.2013	0.000	534.780	25.02.2014
2014-2015	637.1	539.350	29.07.2014	0.000	534.780	28.03.2015
2015-2016	1093	540.460	17.09.2015	0.000	534.550	21.11.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Sonarpal (AGG91F2) **Division : Lower Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	534.540	0.000	536.395	137.4	537.170	240.5	535.500	42.87	536.755	169.1	534.990	0.000
2	534.540	0.000	535.765	62.89	536.660	158.6	535.400	33.39	536.850	194.6 *	534.990	0.000
3	534.560	0.000	535.560	47.58 *	536.190	111.2	535.650	55.54 *	535.970	86.01	534.980	0.000
4	534.550	0.000	535.360	31.45 #	536.945	208.3	535.880	77.65 *	535.685	60.88	534.980	0.000
5	534.480	0.000	535.230	18.11	537.245	267.6	535.770	66.77 *	536.090	97.06	534.980	0.000
6	534.470	0.000	535.270	20.42	536.975	213.2	535.610	51.95 *	535.815	75.16	534.950	0.000
7	534.470	0.000	535.230	22.23 *	537.700	322.9 *	535.440	37.63 *	535.805	71.81	534.950	0.000
8	534.480	0.000	535.180	14.71	536.850	179.5	535.300	27.06 #	536.180	110.8	534.900	0.000
9	534.470	0.000	535.300	28.18	536.260	114.2	535.250	23.57 #	538.550	471.3 *	534.900	0.000
10	534.500	0.000	537.950	364.6 *	535.780	86.86	538.325	430.0	537.320	301.4	534.920	0.000
11	534.700	0.000	538.350	378.4	535.550	47.81	538.800	518.3 *	536.450	142.2 *	534.930	0.000
12	534.850	0.000	536.400	121.4	535.450	40.95	537.590	325.4	535.900	79.69 *	534.930	0.000
13	534.860	0.000	535.815	61.15	535.460	43.03	536.740	179.6 *	535.635	56.33	534.920	0.000
14	534.880	0.000	535.520	39.37	535.400	34.50 *	536.250	106.2	535.490	50.08	534.920	0.000
15	534.890	0.000	535.390	31.27	535.380	32.96 *	536.585	151.7	535.370	31.82	534.920	0.000
16	534.870	0.000	535.460	34.76	535.560	52.04	536.060	88.84	535.280	25.65 *	534.920	0.000
17	534.840	0.000	535.450	38.43 *	536.070	89.42	535.720	61.96	535.280	26.99	534.910	0.000
18	534.880	0.000	535.280	21.90	535.700	71.52	535.720	62.01 *	535.210	20.90 #	534.910	0.000
19	534.950	0.000	535.180	19.90	535.580	55.43	535.720	63.89	535.190	19.61 #	534.880	0.000
20	534.850	0.000	535.150	18.19	535.365	34.76	535.975	83.52	535.180	17.94	534.870	0.000
21	534.870	0.000	535.330	30.81	535.270	24.95 *	535.790	69.39	535.130	13.84	534.850	0.000
22	534.770	0.000	536.375	120.5	535.200	19.96	535.685	60.46	535.130	15.06	534.850	0.000
23	534.830	0.000	537.250	289.2	535.150	14.68	535.525	43.28	535.100	14.14 *	534.850	0.000
24	536.300	123.9 *	536.270	120.4 *	535.110	14.05	535.420	38.33	535.090	14.11	534.850	0.000
25	535.630	53.74 *	536.115	103.3	535.195	20.02	535.340	29.96 *	535.080	13.33	534.850	0.000
26	536.250	118.1 *	535.970	89.76	535.185	20.14	535.320	26.67	535.060	12.65	534.840	0.000
27	535.450	40.51	536.000	89.06	538.575	488.7	535.300	25.42	535.060	12.28	534.840	0.000
28	535.325	22.12	535.575	48.95	536.600	161.2 *	535.810	70.39	535.030	11.11	534.820	0.000
29	536.675	197.2	535.885	95.80	535.760	61.39	536.425	137.5	535.000	10.53	534.800	0.000
30	536.155	121.3	536.005	83.96	535.500	50.19	535.950	85.55	535.000	8.809 *	534.800	0.000
31			538.700	499.3 *	535.390	31.92			534.980	9.841		
Ten-Daily Mean												
I Ten-Daily	534.506	0.000	535.724	74.76	536.778	190.3	535.813	84.65	536.502	163.8	534.954	0.000
II Ten-Daily	534.857	0.000	535.799	76.47	535.551	50.24	536.516	164.1	535.499	47.12	534.911	0.000
III Ten-Daily	535.625	67.69	536.316	142.8	535.721	82.47	535.656	58.69	535.060	12.34	534.835	0.000
Monthly												
Min.	534.470	0.000	535.150	14.71	535.110	14.05	535.250	23.57	534.980	8.809	534.800	0.000
Max.	536.675	197.2	538.700	499.3	538.575	488.7	538.800	518.3	538.550	471.3	534.990	0.000
Mean	534.996	22.56	535.958	99.46	536.007	106.9	535.995	102.5	535.667	72.42	534.900	0

Annual Runoff in MCM = 1071 Annual Runoff in mm = 703

Peak Observed Discharge = 488.7 cumecs on 27-08-2016 Corres. Water Level :538.575 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016 Corres. Water Level :534.54 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Sonarpal (AGG91F2) **Division : Lower Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	534.790	0.000	534.790	0.000	534.770	0.000	534.730	0.000	534.720	0.000	534.710	0.000
2	534.760	0.000	534.790	0.000	534.780	0.000	534.730	0.000	534.720	0.000	534.920	0.000
3	534.760	0.000	534.790	0.000	534.780	0.000	534.730	0.000	534.720	0.000	534.950	0.000
4	534.750	0.000	534.790	0.000	534.770	0.000	534.730	0.000	534.730	0.000	534.950	0.000
5	534.740	0.000	534.790	0.000	534.760	0.000	534.730	0.000	534.720	0.000	534.940	0.000
6	534.740	0.000	534.800	0.000	534.760	0.000	534.730	0.000	534.740	0.000	534.940	0.000
7	534.730	0.000	534.800	0.000	534.760	0.000	534.730	0.000	534.740	0.000	534.950	0.000
8	534.730	0.000	534.790	0.000	534.750	0.000	534.730	0.000	534.740	0.000	535.010	0.000
9	534.730	0.000	534.790	0.000	534.750	0.000	534.730	0.000	534.740	0.000	534.940	0.000
10	534.730	0.000	534.780	0.000	534.750	0.000	534.740	0.000	534.740	0.000	534.900	0.000
11	534.730	0.000	534.780	0.000	534.750	0.000	534.750	0.000	534.740	0.000	534.900	0.000
12	534.730	0.000	534.780	0.000	534.760	0.000	534.750	0.000	534.750	0.000	534.920	0.000
13	534.730	0.000	534.780	0.000	534.780	0.000	534.750	0.000	534.750	0.000	534.890	0.000
14	534.790	0.000	534.780	0.000	534.780	0.000	534.750	0.000	534.750	0.000	534.890	0.000
15	534.710	0.000	534.780	0.000	534.770	0.000	534.750	0.000	534.750	0.000	534.890	0.000
16	534.700	0.000	534.780	0.000	534.770	0.000	534.750	0.000	534.750	0.000	534.890	0.000
17	534.700	0.000	534.780	0.000	534.750	0.000	534.750	0.000	534.750	0.000	534.880	0.000
18	534.700	0.000	534.780	0.000	534.750	0.000	534.750	0.000	534.750	0.000	534.840	0.000
19	534.750	0.000	534.770	0.000	534.750	0.000	534.750	0.000	534.750	0.000	534.780	0.000
20	534.780	0.000	534.770	0.000	534.740	0.000	534.750	0.000	534.750	0.000	534.770	0.000
21	534.740	0.000	534.770	0.000	534.740	0.000	534.750	0.000	534.750	0.000	534.680	0.000
22	534.710	0.000	534.770	0.000	534.740	0.000	534.740	0.000	534.750	0.000	534.660	0.000
23	534.700	0.000	534.770	0.000	534.740	0.000	534.730	0.000	534.750	0.000	534.660	0.000
24	534.700	0.000	534.770	0.000	534.740	0.000	534.730	0.000	534.750	0.000	534.740	0.000
25	534.710	0.000	534.770	0.000	534.740	0.000	534.730	0.000	534.730	0.000	534.740	0.000
26	534.720	0.000	534.770	0.000	534.740	0.000	534.730	0.000	534.670	0.000	534.720	0.000
27	534.720	0.000	534.770	0.000	534.740	0.000	534.720	0.000	534.660	0.000	534.720	0.000
28	534.740	0.000	534.770	0.000	534.740	0.000	534.720	0.000	534.650	0.000	534.710	0.000
29	534.780	0.000	534.770	0.000			534.720	0.000	534.700	0.000	534.640	0.000
30	534.790	0.000	534.770	0.000			534.720	0.000	534.840	0.000	534.640	0.000
31	534.790	0.000	534.770	0.000			534.720	0.000			534.640	0.000
Ten-Daily I												
I Ten-Daily	534.746	0.000	534.791	0.000	534.763	0.000	534.731	0.000	534.731	0.000	534.921	0.000
II Ten-Daily	534.732	0.000	534.778	0.000	534.760	0.000	534.750	0.000	534.749	0.000	534.865	0.000
II Ten-Daily	534.736	0.000	534.770	0.000	534.740	0.000	534.728	0.000	534.725	0.000	534.686	0.000
Monthly												
Min.	534.700	0.000	534.770	0.000	534.740	0.000	534.720	0.000	534.650	0.000	534.640	0.000
Max.	534.790	0.000	534.800	0.000	534.780	0.000	534.750	0.000	534.840	0.000	535.010	0.000
Mean	534.738	0	534.779	0	534.755	0	534.736	0	534.735	0	534.820	0

Peak Computed Discharge = 518.3 cumecs on 11-09-2016 **Corres. Water Level :538.8 m**

Lowest Computed Discharge = 8.809 cumecs on 30-10-2016 **Corres. Water Level :535 m**

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

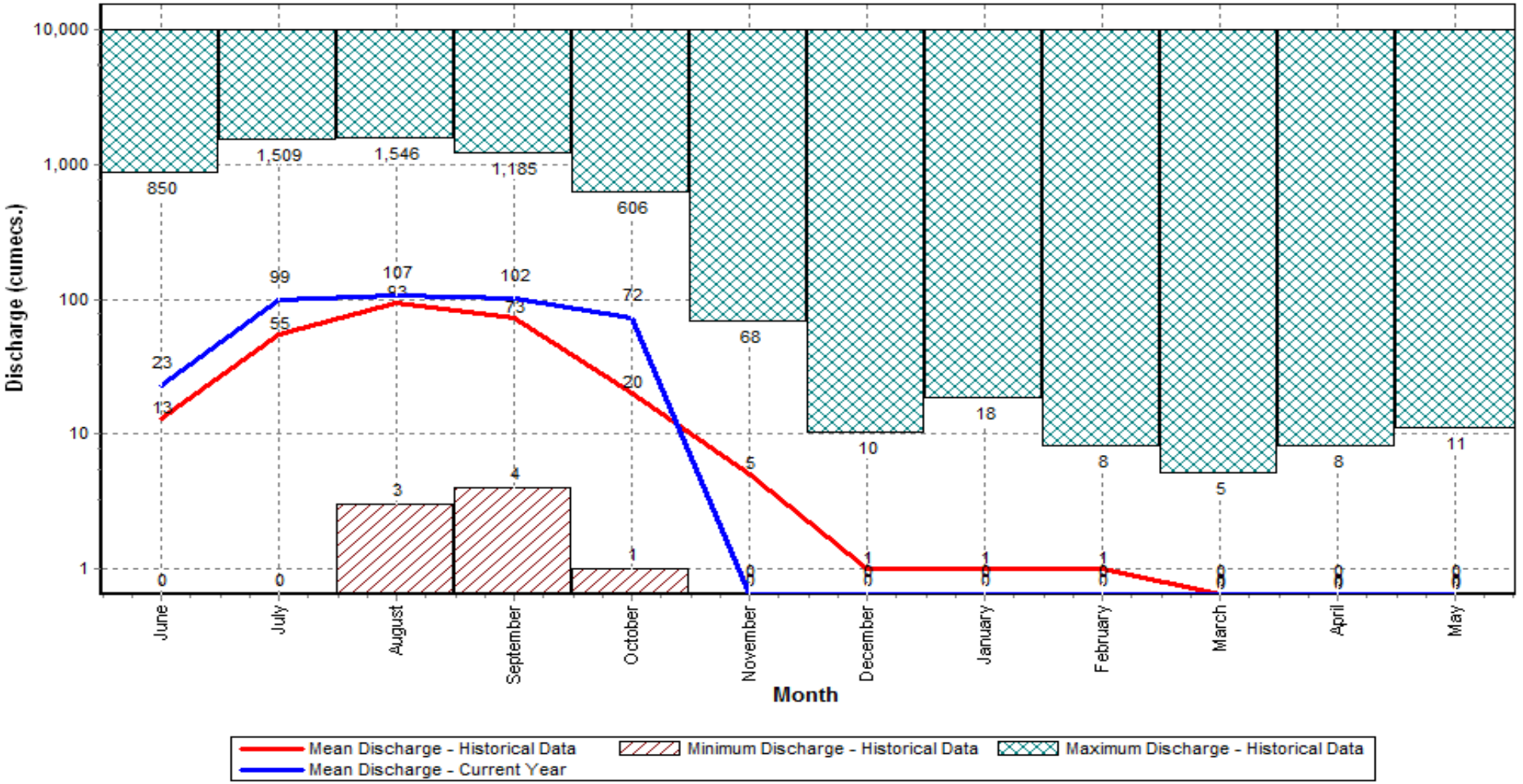
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Sonarpal (AGG91F2) | **Data considered : 1992-2017** | **Division : Lower Godavari Div., Hyderabad**

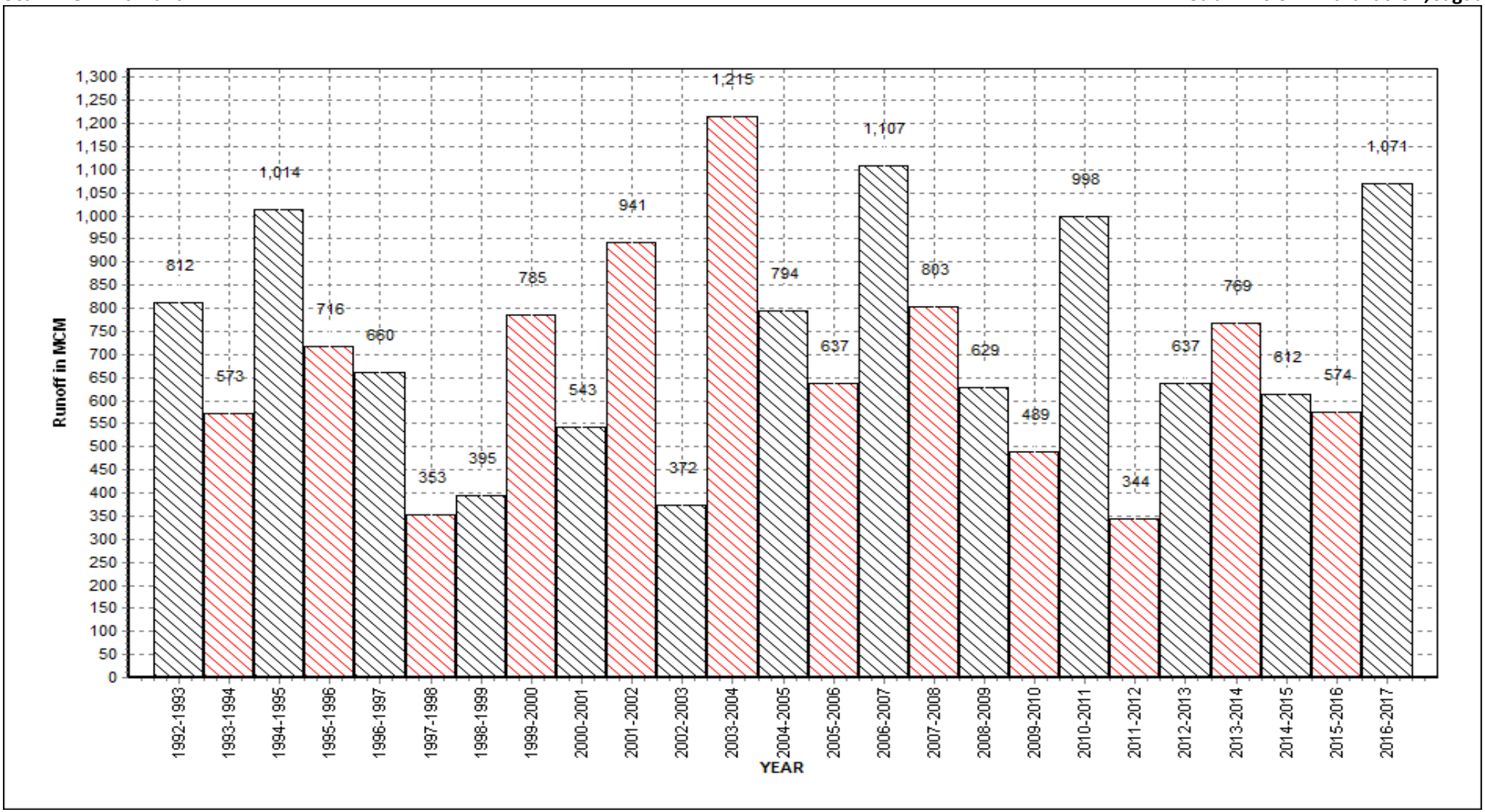
Local River : Markandi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1992 - 2017

Station Name : Sonarpal (AGG91F2) **Division : Lower Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

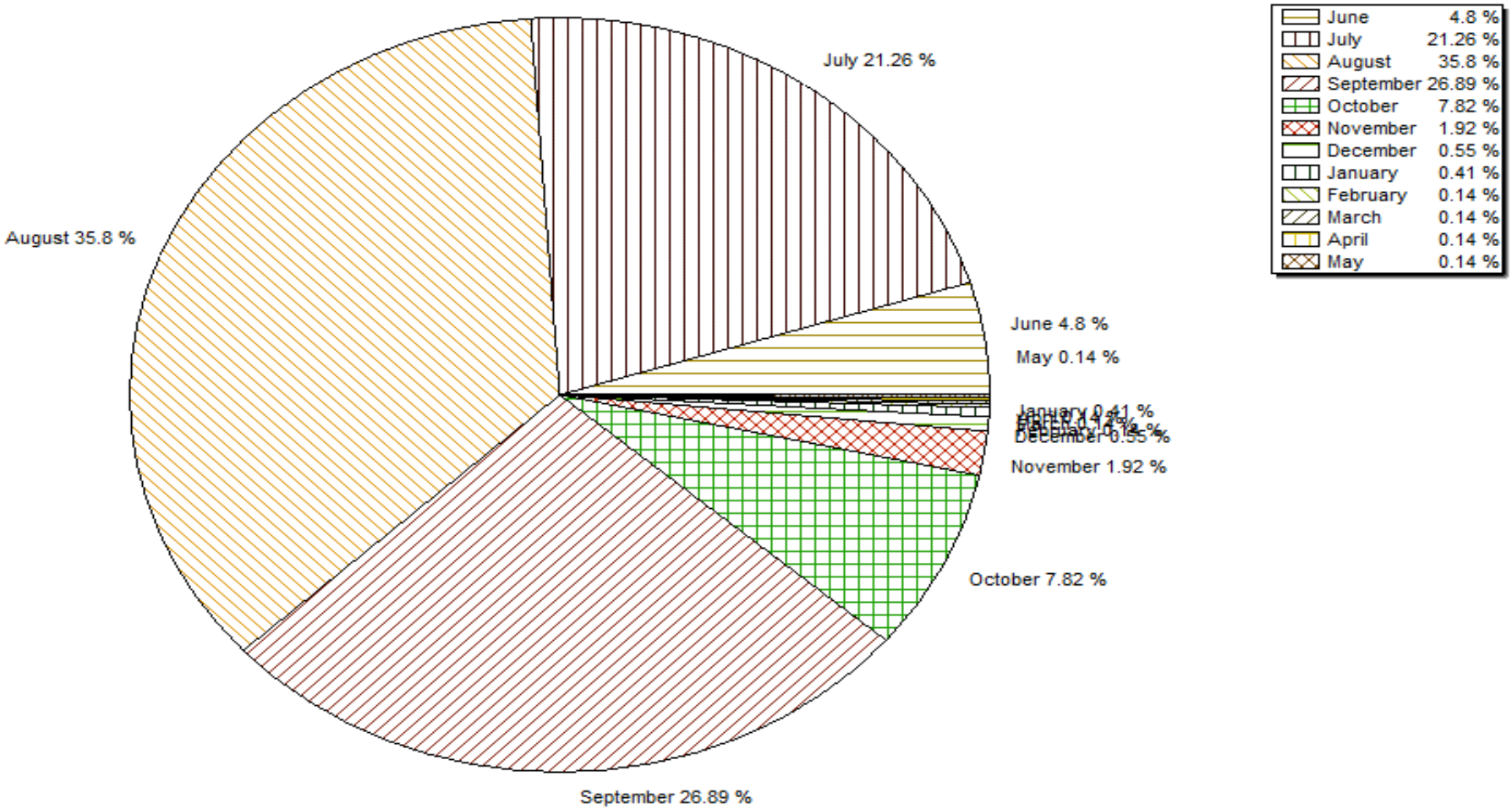
Monthly Average Runoff based on period : 1992-2016

Station Name : Sonarpal (AGG91F2)

Local River : Markandi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



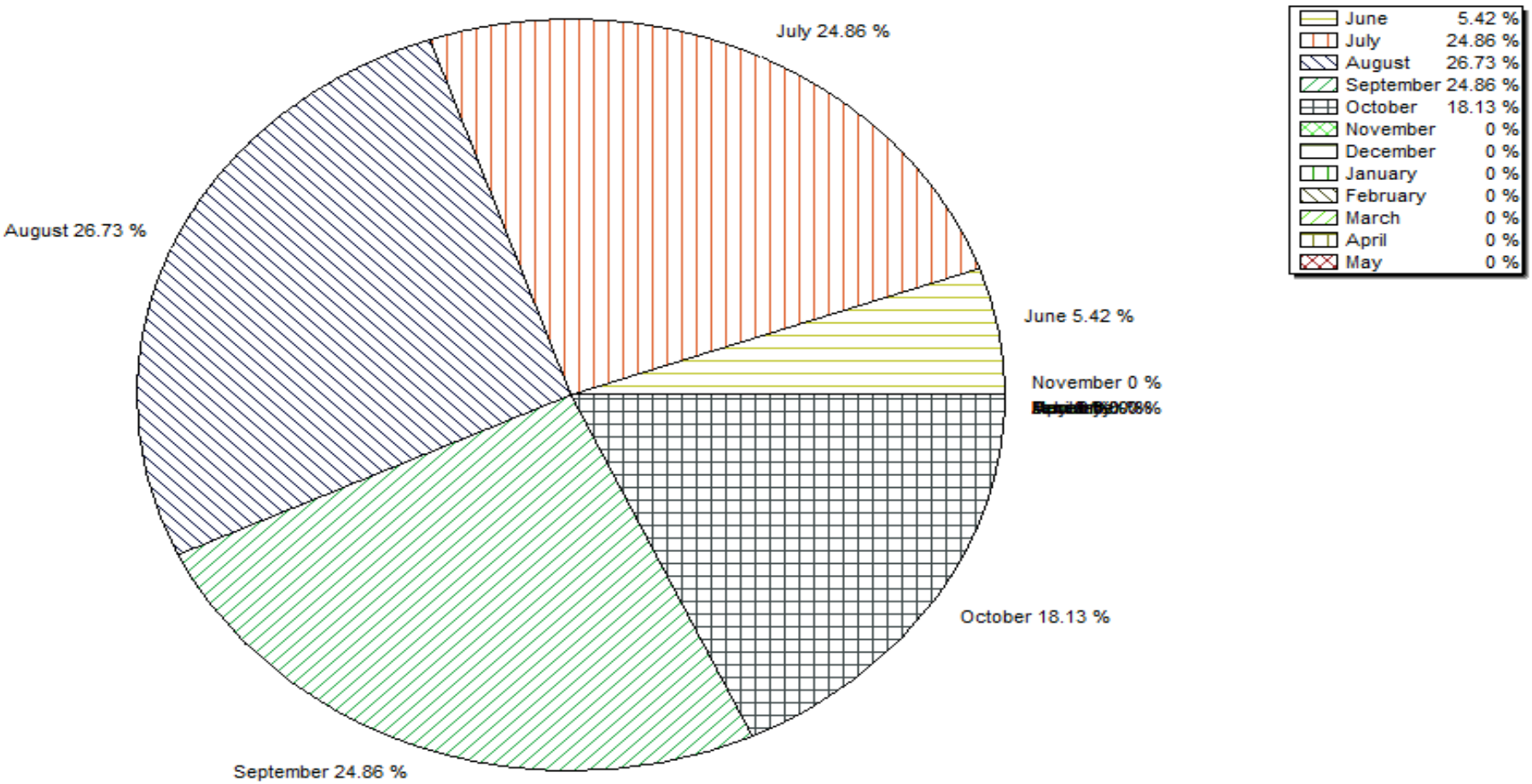
Monthly Runoff for the Year : 2016-2017

Station Name : Sonarpal (AGG91F2)

Local River : Markandi

Division : Lower Godavari Div., Hyderabad

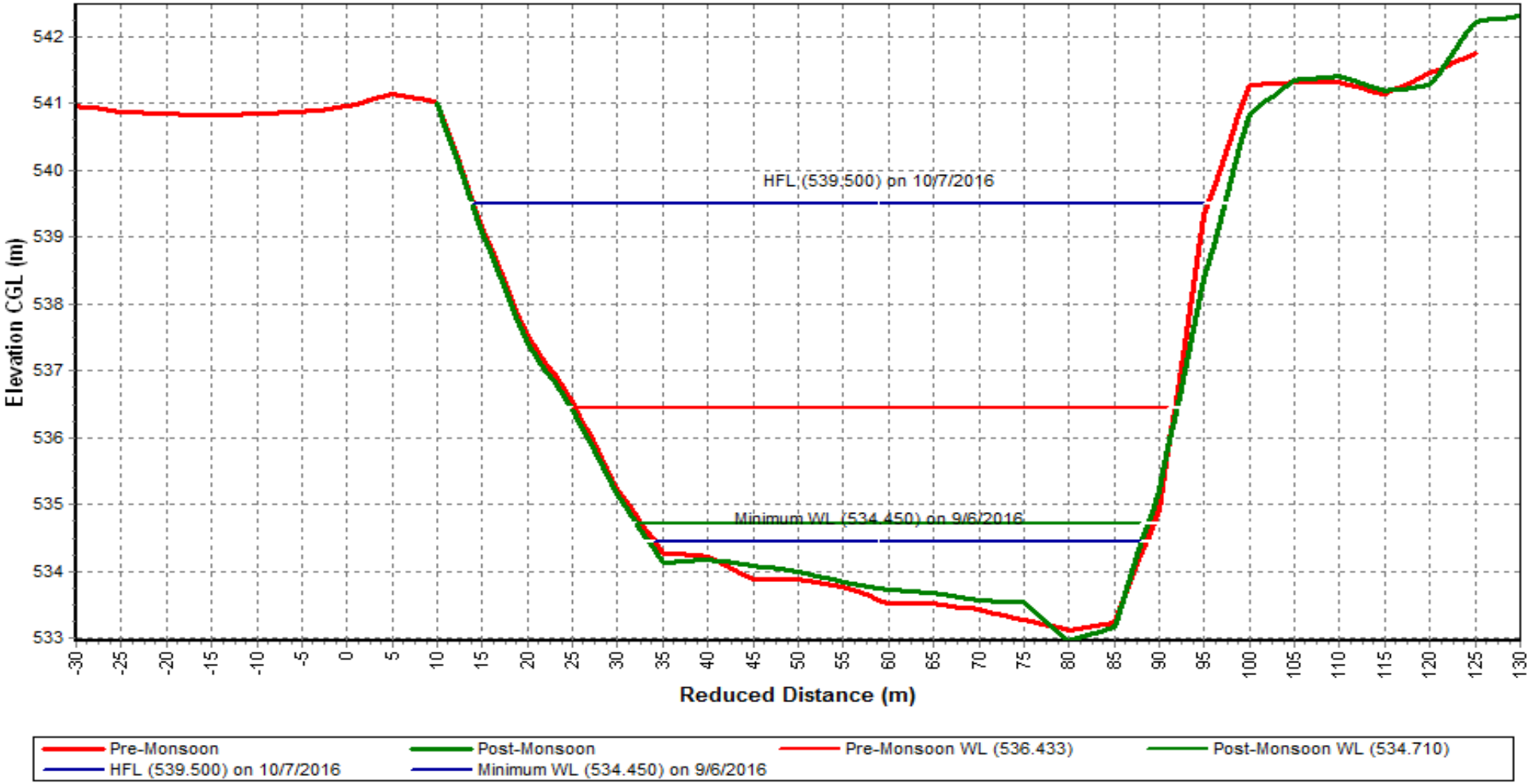
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Sonarpal (AGG91F2) **Division : Lower Godavari Div., Hyderabad**

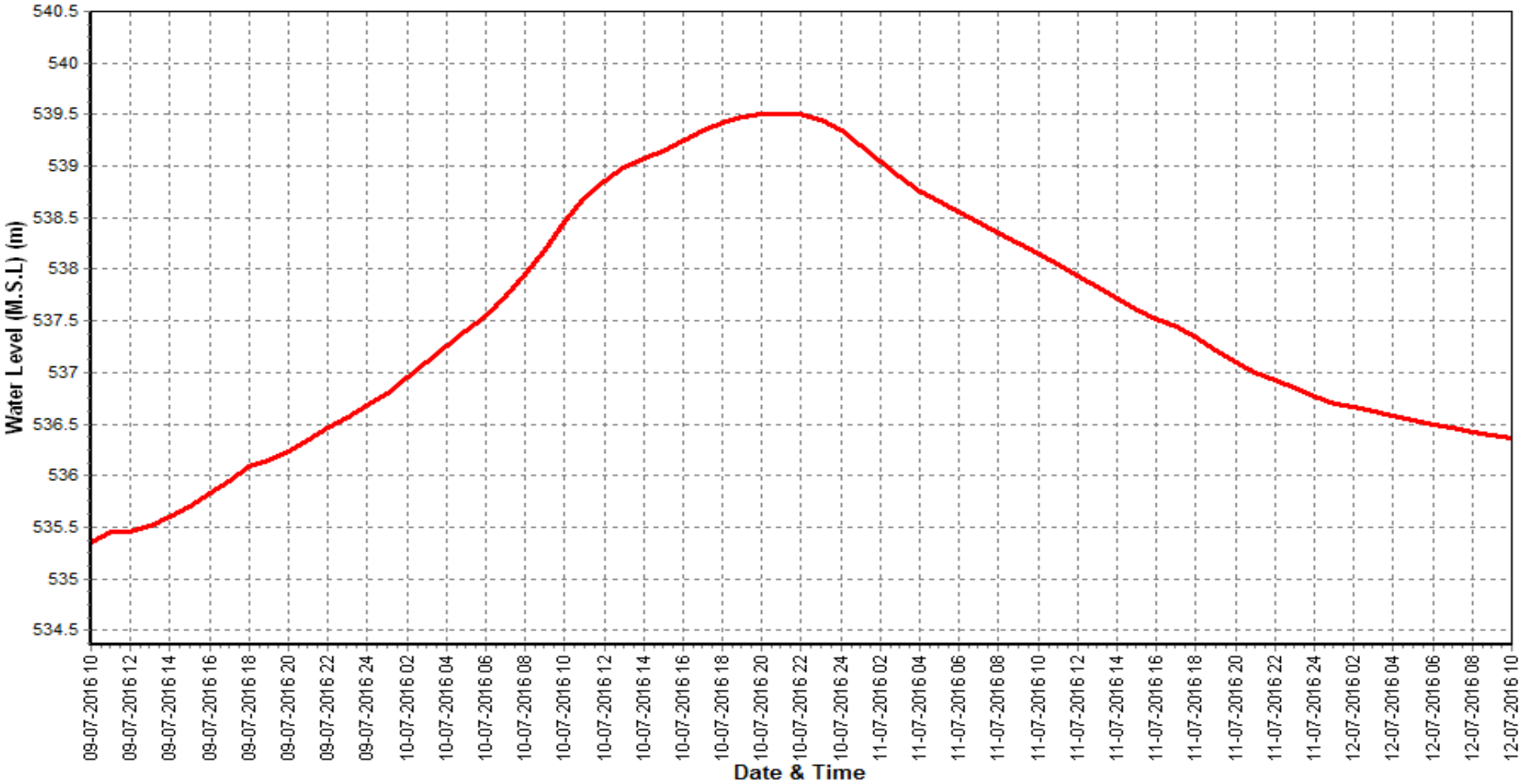
Local River : Markandi **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Sonarpal (AGG91F2) **Division : Lower Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravati SD, Jagdalpur**

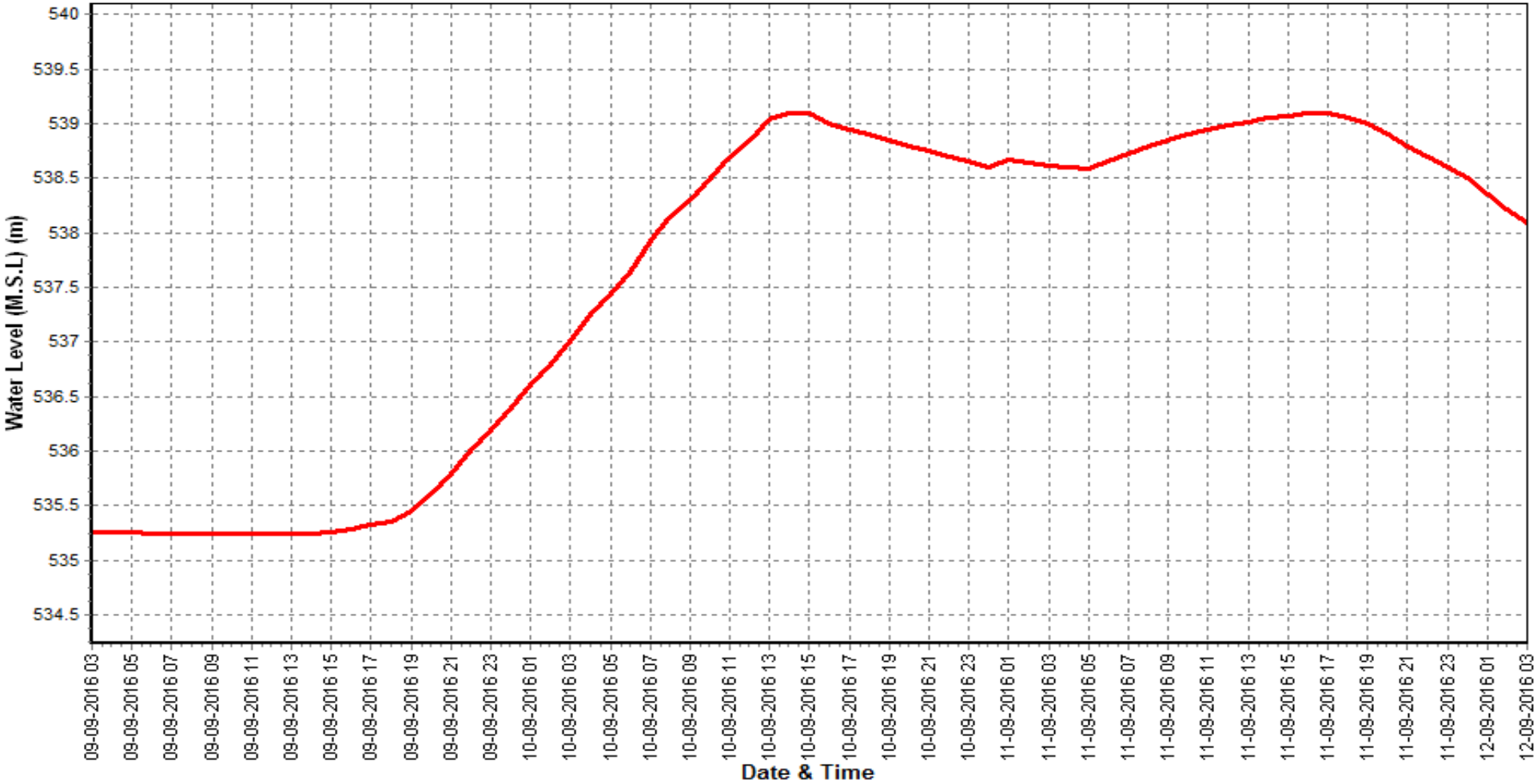


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Sonarpal (AGG91F2) **Division : Lower Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravati SD, Jagdalpur**

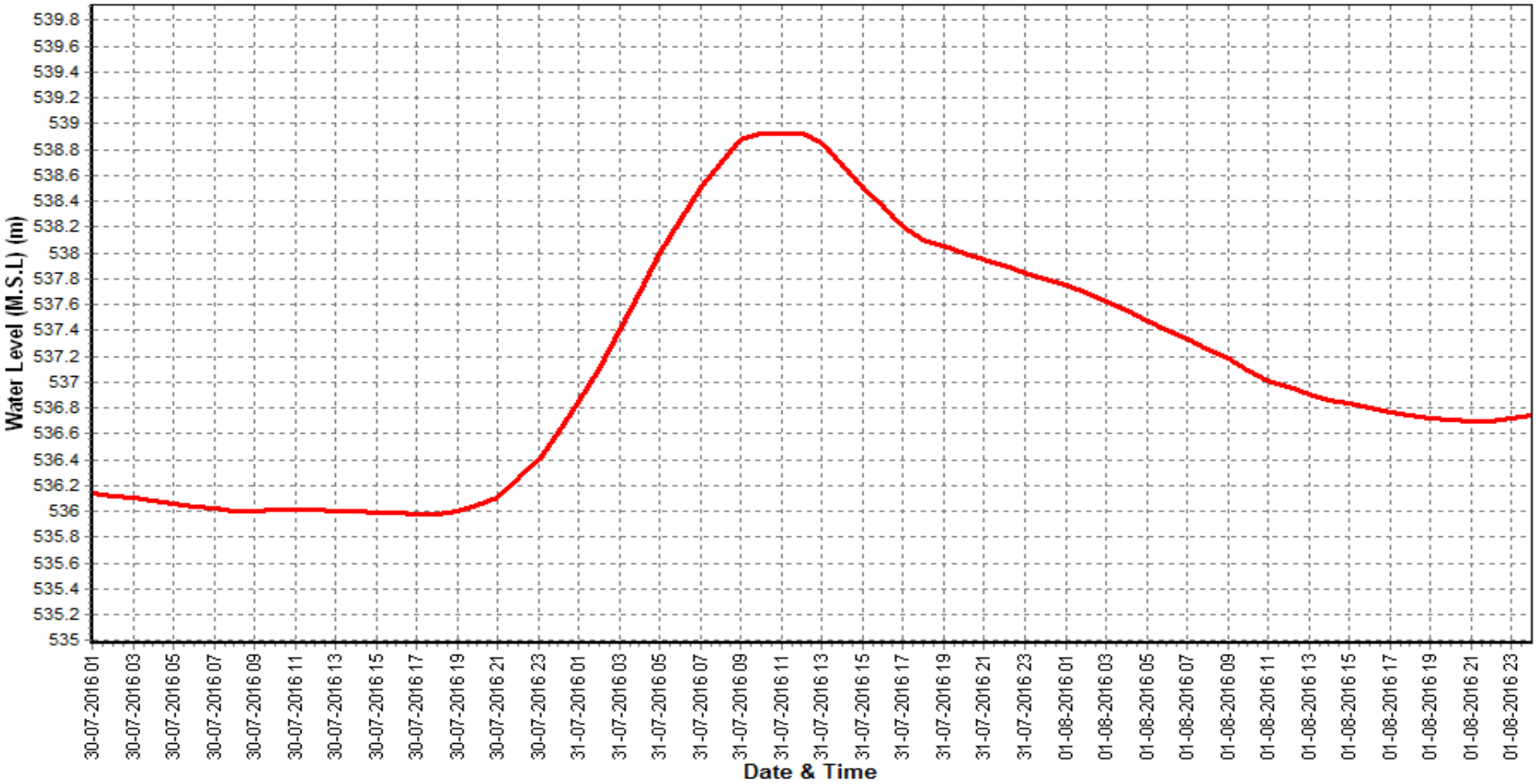


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Sonarpal (AGG91F2) **Division : Lower Godavari Div., Hyderabad**

Local River : Markandi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Jagdalpur**		**Code**	**: AGG00R9**	
State	: Chhattisgarh		District	Bastar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: -	
Sub-Sub Tributary	: -		Local River	: Indravathi	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: 7380 Sq. Km.		Bank	: Left	
Latitude	: 19°06'30"		Longitude	: 82°01'30"	
Zero of Gauge (m)	: 544.595 (m.s.l) 532.507 (m.s.l) 532.5 (m.s.l) 532.501 (m.s.l)		04.08.1964 01.01.1965 01.06.1968 01.06.1970	- 31.12.1964 - 31.05.1968 - 31.05.1970	
	Opening Date		Closing Date		
Gauge	: 04.08.1964		**HFL During 2016-17**	**: 540.321**	
			Corres.Discharge	**: 1474.817 Cumecs(Estimated)**	
Discharge	: 21.09.1965		**Date& Time of Occurance**	**: 11.07.2016 : 07:00**	
Sediment	: 21.09.1965				
Water Quality	: 01.12.1979				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	935.7	537.937	29.07.1965	4.760	533.622	27.05.1966
1966-1967	2940	544.397	06.09.1966	6.287	533.622	01.06.1966
1967-1968	2313	543.107	04.08.1967	6.150	533.677	09.06.1967
1968-1969	2315	541.530	05.10.1968	10.00	533.885	22.04.1969
1969-1970	2889	544.340	30.07.1969	9.600	533.865	03.06.1969
1970-1971	1985	542.291	29.08.1970	13.85	533.861	10.05.1971
1971-1972	1284	540.976	06.09.1971	8.700	533.834	25.05.1972
1972-1973	1924	542.551	13.09.1972	7.483	533.791	16.06.1972
1973-1974	2462	544.491	09.07.1973	8.587	533.846	02.06.1973
1974-1975	974.8	539.096	18.06.1974	5.800	533.696	21.05.1975
1975-1976	1730	541.176	14.08.1975	8.970	533.921	10.05.1976
1976-1977	2499	543.186	22.07.1976	9.585	533.893	02.06.1976
1977-1978	2337	543.011	14.09.1977	11.40	534.026	07.06.1977
1978-1979	3175	544.331	17.08.1978	8.951	533.901	29.05.1979
1979-1980	2191	542.401	26.06.1979	6.148	533.711	27.05.1980
1980-1981	2032	541.811	19.09.1980	7.500	533.771	26.05.1981
1981-1982	2366	542.236	10.08.1981	6.859	533.741	07.05.1982
1982-1983	1468	540.649	14.08.1982	5.934	533.711	08.05.1983
1983-1984	1336	540.651	27.06.1983	4.694	533.656	27.05.1984

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1984-1985	2262	543.071	03.08.1984	7.100	533.761	01.05.1985
1985-1986	1591	540.336	18.08.1985	8.100	533.831	11.04.1986
1986-1987	3109	544.551	15.08.1986	5.781	533.721	19.05.1987
1987-1988	1186	539.936	05.09.1987	4.800	533.671	15.04.1988
1988-1989	932.1	538.826	19.07.1988	3.632	533.651	31.05.1989
1989-1990	1256	540.261	31.08.1989	3.622	533.646	01.06.1989
1990-1991	2019	542.111	07.10.1990	9.119	533.821	21.05.1991
1991-1992	2407	542.851	31.07.1991	4.904	533.786	27.05.1992
1992-1993	2956	543.801	29.07.1992	3.177	533.781	09.05.1993
1993-1994	1397	540.226	16.07.1993	1.904	533.616	14.05.1994
1994-1995	2675	544.031	06.09.1994	1.880	534.651	01.05.1995
1995-1996	2089	542.791	02.09.1995	0.133	534.601	14.06.1995
1996-1997	1190	540.306	22.07.1996	2.313	533.621	29.05.1997
1997-1998	1084	539.471	22.08.1997	1.377	533.611	10.06.1997
1998-1999	994.5	539.381	12.07.1998	0.265	533.441	26.03.1999
1999-2000	962.8	538.851	09.08.1999	0.583	533.501	17.05.2000
2000-2001	1518	541.096	31.08.2000	1.275	533.531	30.03.2001
2001-2002	2115	542.791	21.08.2001	1.216	534.261	25.05.2002
2002-2003	1511	540.751	24.08.2002	1.288	533.621	26.05.2003
2003-2004	1696	541.471	29.08.2003	0.824	533.651	10.06.2003
2004-2005	1641	541.401	15.06.2004	1.495	533.641	23.05.2005
2005-2006	1470	540.711	14.09.2005	1.701	533.666	20.06.2005
2006-2007	2113	543.371	05.07.2006	1.524	533.731	22.03.2007
2007-2008	1737	541.991	08.08.2007	0.433	533.701	19.05.2008
2008-2009	1152	540.281	11.08.2008	0.817	533.581	24.04.2009
2009-2010	831.6	538.631	27.08.2009	1.427	533.571	21.04.2010
2010-2011	2231	543.701	07.08.2010	0.000	533.601	03.02.2011
2011-2012	916.4	539.201	02.09.2011	0.000	534.981	05.05.2012
2012-2013	1452	540.861	06.08.2012	0.000	534.661	14.02.2013
2013-2014	1688	542.011	15.06.2013	0.000	534.451	08.02.2014
2014-2015	1149	540.601	22.07.2014	0.000	534.521	29.03.2015
2015-2016	2851	542.991	18.09.2015	0.000	534.521	18.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	535.121	30.10 *	538.041	657.2 #	536.166	233.9	535.576	94.81	535.801	131.8	534.741	27.27
2	535.121	30.10 *	537.416	430.4	536.711	296.0	535.691	99.82	536.231	195.3 *	534.721	22.68
3	535.131	31.10 *	536.961	360.0 *	536.441	246.9	535.681	98.41	536.236	204.6	534.671	20.27
4	535.121	30.10 *	536.046	134.6	536.236	238.1	535.901	137.6 *	535.821	122.1	534.691	23.50
5	535.111	29.12 *	535.886	108.7	537.826	651.5	536.211	194.6 *	535.546	92.86 #	534.681	23.11
6	535.111	29.12 *	535.876	108.5	537.931	653.3	536.701	294.1	535.656	99.79	534.681	22.48 *
7	535.121	30.10 *	535.731	109.5 *	537.571	519.9 *	536.061	189.9	535.761	128.8	534.671	20.98
8	535.141	32.10 *	535.501	64.38	537.876	622.7	535.741	111.5	536.691	291.5 *	534.661	20.55
9	535.151	33.12 *	535.586	82.28	537.086	420.2	535.561	88.11	536.931	351.3 *	534.651	21.03
10	535.261	45.05 *	537.081	389.7 *	536.246	228.8	536.131	191.1	536.881	337.1	534.631	20.10 *
11	535.421	64.67 *	540.321	1475 *	535.801	103.8	537.981	639.1 *	536.651	282.2 *	534.621	19.64 *
12	535.401	62.08 *	538.831	913.3 *	535.616	85.53	538.571	825.7 *	536.211	191.7 *	534.611	19.19 *
13	535.301	49.71 *	536.761	299.7	535.601	82.52	537.951	630.0 *	535.791	126.3	534.611	19.19 *
14	535.241	42.78 *	536.001	138.8	535.591	88.22 *	536.721	304.5	535.571	92.68	534.611	19.19 *
15	535.201	38.37 *	535.656	97.91 #	535.501	75.42 *	536.146	171.2	535.456	82.69 #	534.601	18.74 *
16	535.171	35.19 *	535.571	71.25	535.631	95.06	535.991	158.0	535.371	73.74 *	534.601	18.74 *
17	535.131	31.10 *	535.711	106.4 *	535.946	153.8	535.781	107.5	535.311	67.80 #	534.591	18.31 *
18	535.171	35.19 *	535.641	85.35	535.861	149.7	535.691	103.3 *	535.261	63.08 #	534.591	18.31 *
19	535.131	31.10 *	535.536	69.69	535.591	85.06	535.776	115.6	535.241	61.25 #	534.591	18.31 *
20	535.141	32.10 *	535.946	136.7	535.446	80.44	536.261	203.6	535.191	56.81 #	534.551	16.62 *
21	535.131	31.10 *	536.906	322.3	535.346	55.15 *	536.181	184.8	535.171	55.09 #	534.571	17.45 *
22	535.131	31.10 *	537.096	328.0	535.266	50.58	535.881	159.3	535.126	51.35 #	534.571	17.45 *
23	535.131	31.10 *	536.971	332.4	535.231	40.15	535.681	106.4	535.091	48.54 *	534.571	17.45 *
24	535.301	49.71 *	536.631	282.7 *	535.221	43.01	535.576	84.37	535.031	43.96 #	534.561	17.03 *
25	535.241	42.78 *	536.521	258.5 *	535.211	38.69	535.581	86.76 *	534.986	40.70 #	534.561	17.03 *
26	535.681	101.7 *	536.541	278.8	535.551	91.70	535.711	115.1	534.931	33.91	534.551	16.62 *
27	535.526	78.90 #	536.271	205.8	536.206	231.3	535.656	105.1	534.881	28.57	534.541	16.21 *
28	536.161	184.9 #	535.736	110.3 #	537.171	412.6 *	535.561	88.93	534.841	32.52	534.531	15.81 *
29	537.681	495.9	535.516	62.81	536.101	197.5	535.641	99.12	534.801	31.43	534.531	15.81 *
30	536.941	324.5	536.486	291.5	535.726	124.0	535.741	121.5	534.791	28.30 *	534.521	15.42 *
31			536.511	256.3 *	535.571	88.26			534.761	27.13		
Ten-Daily Mean												
I Ten-Daily	535.139	32.00	536.412	244.5	537.009	411.1	535.925	150.0	536.156	195.5	534.680	22.20
II Ten-Daily	535.231	42.23	536.598	339.4	535.659	99.96	536.687	325.8	535.606	109.8	534.598	18.62
III Ten-Daily	535.792	137.2	536.471	248.1	535.691	124.8	535.721	115.1	534.946	38.32	534.551	16.63
Monthly												
Min.	535.111	29.12	535.501	62.81	535.211	38.69	535.561	84.37	534.761	27.13	534.521	15.42
Max.	537.681	495.9	540.321	1475	537.931	653.3	538.571	825.7	536.931	351.3	534.741	27.27
Mean	535.387	70.47	536.493	276.4	536.106	209.2	536.111	197	535.549	112.1	534.610	19.15

Annual Runoff in MCM = 2948 Annual Runoff in mm = 399

Peak Observed Discharge = 657.2 cumecs on 01-07-2016 Corres. Water Level :538.041 m

Lowest Observed Discharge = 20.27 cumecs on 03-11-2016 Corres. Water Level :534.671 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	534.521	15.42 *	535.041	44.70 *	534.881	33.68 *	534.381	10.52 *	534.991	41.05 *	534.771	27.18 *
2	534.301	8.214 *	535.041	44.70 *	534.821	30.03 *	534.461	13.18 *	534.991	41.05 *	534.831	30.62 *
3	534.431	12.14 *	535.041	44.70 *	535.071	46.98 *	534.581	17.88 *	534.971	39.65 *	534.881	33.68 *
4	534.501	14.65 *	535.041	44.70 *	535.041	44.70 *	534.671	21.99 *	534.971	39.65 *	534.981	40.35 *
5	534.631	20.10 *	535.041	44.70 *	535.011	42.49 *	534.601	18.74 *	534.951	38.27 *	535.011	42.49 *
6	534.831	30.62 *	535.041	44.70 *	535.011	42.49 *	534.671	21.99 *	534.941	37.59 *	535.011	42.49 *
7	534.931	36.92 *	535.041	44.70 *	534.951	38.27 *	534.751	26.09 *	534.941	37.59 *	535.011	42.49 *
8	535.061	46.21 *	535.041	44.70 *	534.861	32.43 *	534.831	30.62 *	534.971	39.65 *	535.011	42.49 *
9	535.061	46.21 *	535.041	44.70 *	534.771	27.18 *	534.921	36.26 *	534.991	41.05 *	535.031	43.96 *
10	535.061	46.21 *	535.041	44.70 *	534.681	22.48 *	534.991	41.05 *	534.991	41.05 *	535.031	43.96 *
11	535.061	46.21 *	535.041	44.70 *	534.711	23.98 *	535.011	42.49 *	534.991	41.05 *	535.041	44.70 *
12	535.061	46.21 *	535.041	44.70 *	534.801	28.87 *	535.011	42.49 *	534.971	39.65 *	535.061	46.21 *
13	535.051	45.45 *	535.041	44.70 *	535.081	47.76 *	535.021	43.22 *	534.961	38.95 *	535.061	46.21 *
14	535.041	44.70 *	535.041	44.70 *	535.061	46.21 *	535.031	43.96 *	534.941	37.59 *	535.061	46.21 *
15	535.051	45.45 *	535.041	44.70 *	535.011	42.49 *	535.021	43.22 *	534.941	37.59 *	535.111	50.13 *
16	535.051	45.45 *	535.041	44.70 *	535.001	41.77 *	535.021	43.22 *	534.941	37.59 *	535.081	47.76 *
17	535.051	45.45 *	535.041	44.70 *	535.001	41.77 *	535.011	42.49 *	534.941	37.59 *	535.071	46.98 *
18	535.021	43.22 *	535.031	43.96 *	535.001	41.77 *	535.011	42.49 *	534.941	37.59 *	535.051	45.45 *
19	535.051	45.45 *	535.031	43.96 *	535.001	41.77 *	535.011	42.49 *	534.941	37.59 *	535.031	43.96 *
20	535.051	45.45 *	535.031	43.96 *	535.001	41.77 *	535.011	42.49 *	534.941	37.59 *	535.021	43.22 *
21	535.051	45.45 *	535.031	43.96 *	535.001	41.77 *	535.011	42.49 *	534.961	38.95 *	535.021	43.22 *
22	535.051	45.45 *	535.031	43.96 *	534.451	12.83 *	535.001	41.77 *	534.991	41.05 *	535.031	43.96 *
23	535.051	45.45 *	535.031	43.96 *	534.371	10.21 *	535.001	41.77 *	534.961	38.95 *	535.011	42.49 *
24	535.051	45.45 *	535.011	42.49 *	534.371	10.21 *	535.001	41.77 *	534.931	36.92 *	535.021	43.22 *
25	535.061	46.21 *	535.011	42.49 *	534.371	10.21 *	535.001	41.77 *	534.831	30.62 *	535.001	41.77 *
26	535.051	45.45 *	535.011	42.49 *	534.371	10.21 *	535.001	41.77 *	534.721	24.50 *	535.001	41.77 *
27	535.051	45.45 *	535.011	42.49 *	534.361	9.910 *	535.001	41.77 *	534.701	23.47 *	535.021	43.22 *
28	535.051	45.45 *	535.011	42.49 *	534.361	9.910 *	535.011	42.49 *	534.671	21.99 *	535.031	43.96 *
29	535.051	45.45 *	535.011	42.49 *			535.001	41.77 *	534.681	22.48 *	535.051	45.45 *
30	535.051	45.45 *	535.011	42.49 *			535.001	41.77 *	534.721	24.50 *	535.021	43.22 *
31	535.041	44.70 *	534.951	38.27 *			534.991	41.05 *			534.981	40.35 *
Ten-Daily M												
I Ten-Daily	534.733	27.67	535.041	44.70	534.910	36.07	534.686	23.83	534.971	39.66	534.957	38.97
II Ten-Daily	535.049	45.31	535.038	44.48	534.967	39.81	535.016	42.86	534.951	38.28	535.059	46.08
III Ten-Daily	535.051	45.45	535.011	42.51	534.457	14.41	535.002	41.83	534.817	30.34	535.017	42.96
Monthly												
Min.	534.301	8.214	534.951	38.27	534.361	9.910	534.381	10.52	534.671	21.99	534.771	27.18
Max.	535.061	46.21	535.041	44.70	535.081	47.76	535.031	43.96	534.991	41.05	535.111	50.13
Mean	534.948	39.67	535.029	43.85	534.801	31.22	534.905	36.36	534.913	36.09	535.011	42.68

Peak Computed Discharge = 1475 cumecs on 11-07-2016 Corres. Water Level :540.321 m

Lowest Computed Discharge = 8.214 cumecs on 02-12-2016 Corres. Water Level :534.301 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

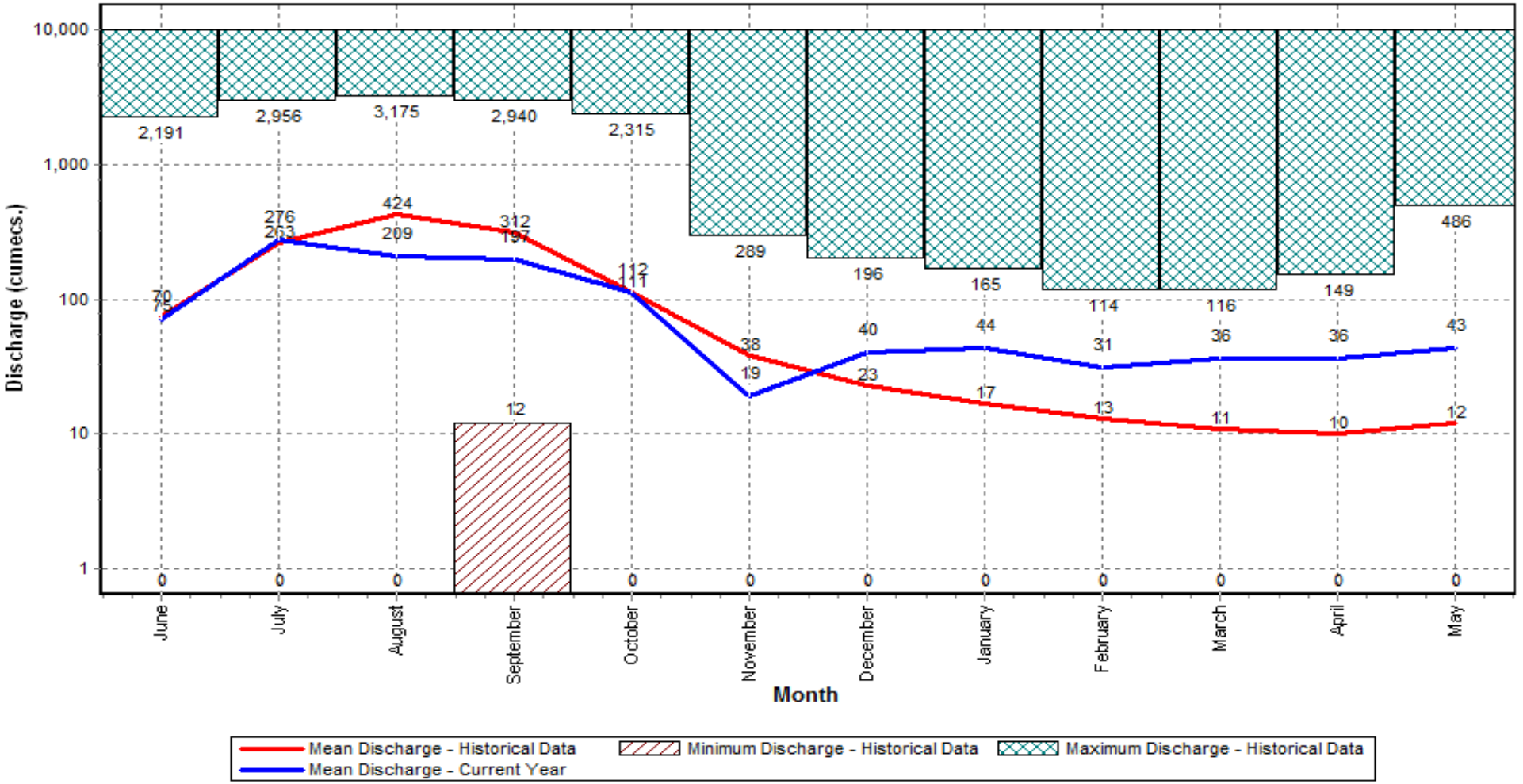
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Jagdalpur (AGG00R9) | **Data considered : 1965-2017** | **Division : Lower Godavari Div., Hyderabad**

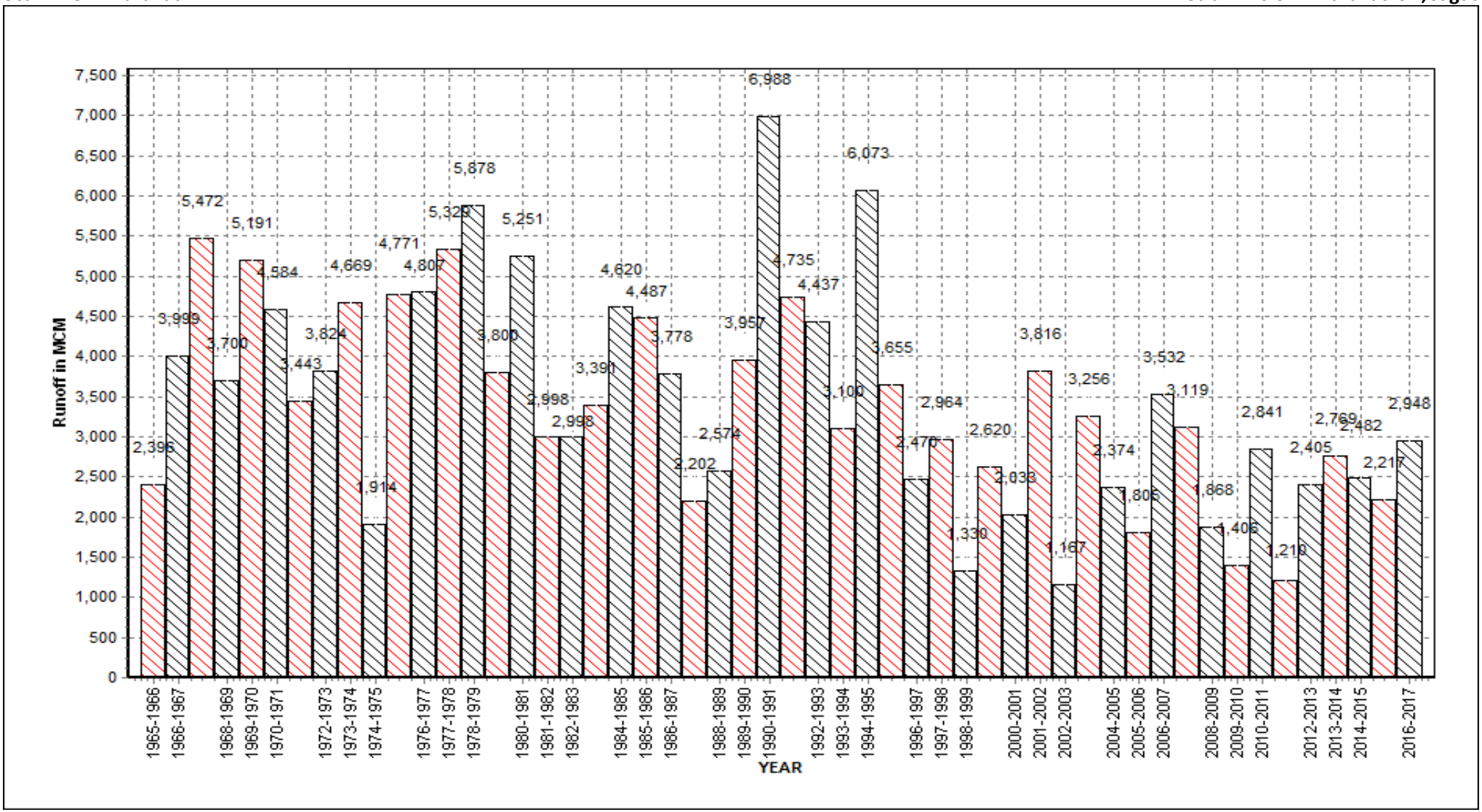
Local River : Indravathi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1965 - 2017

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

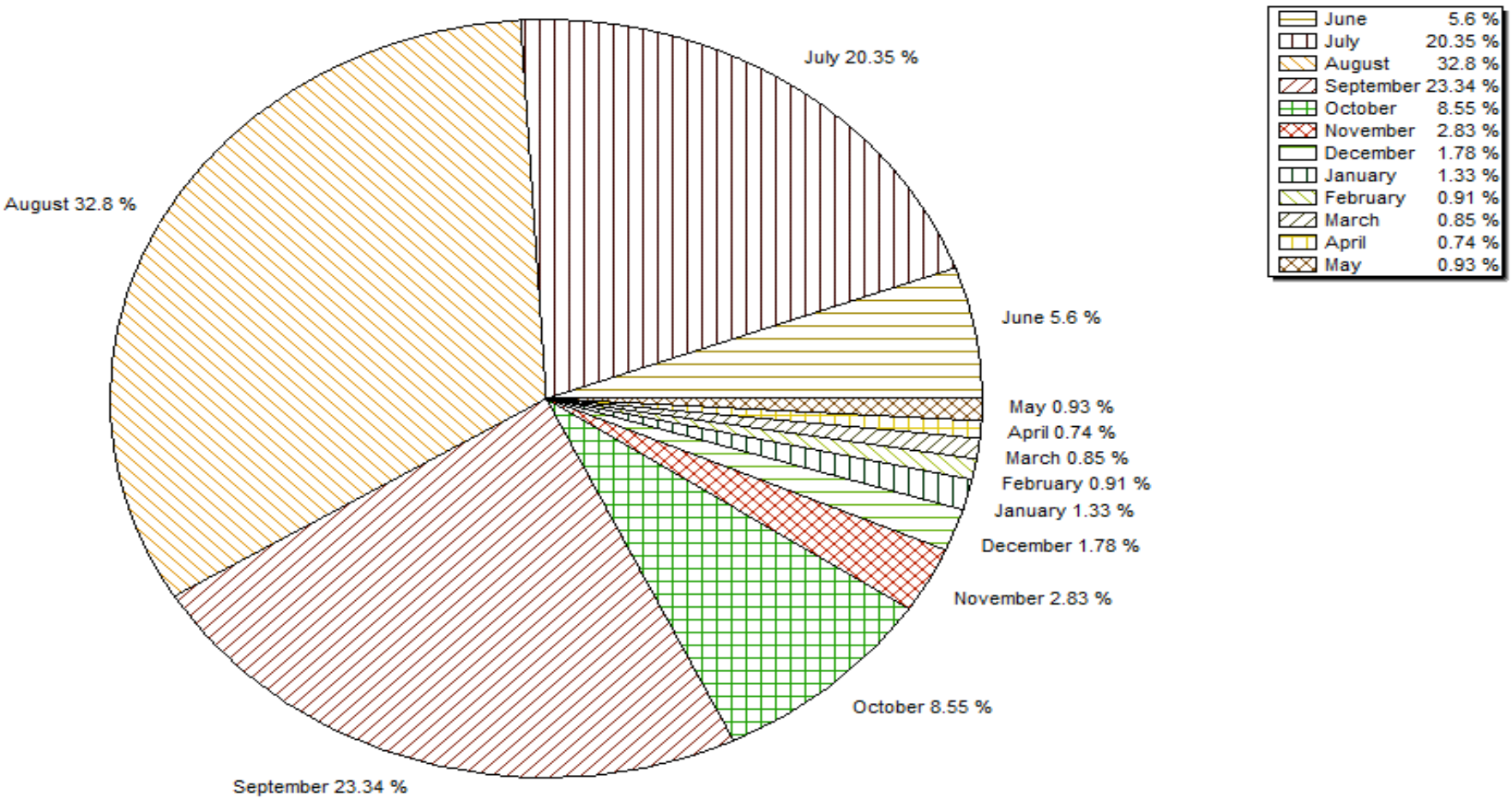
Monthly Average Runoff based on period : 1965-2016

Station Name : Jagdalpur (AGG00R9)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



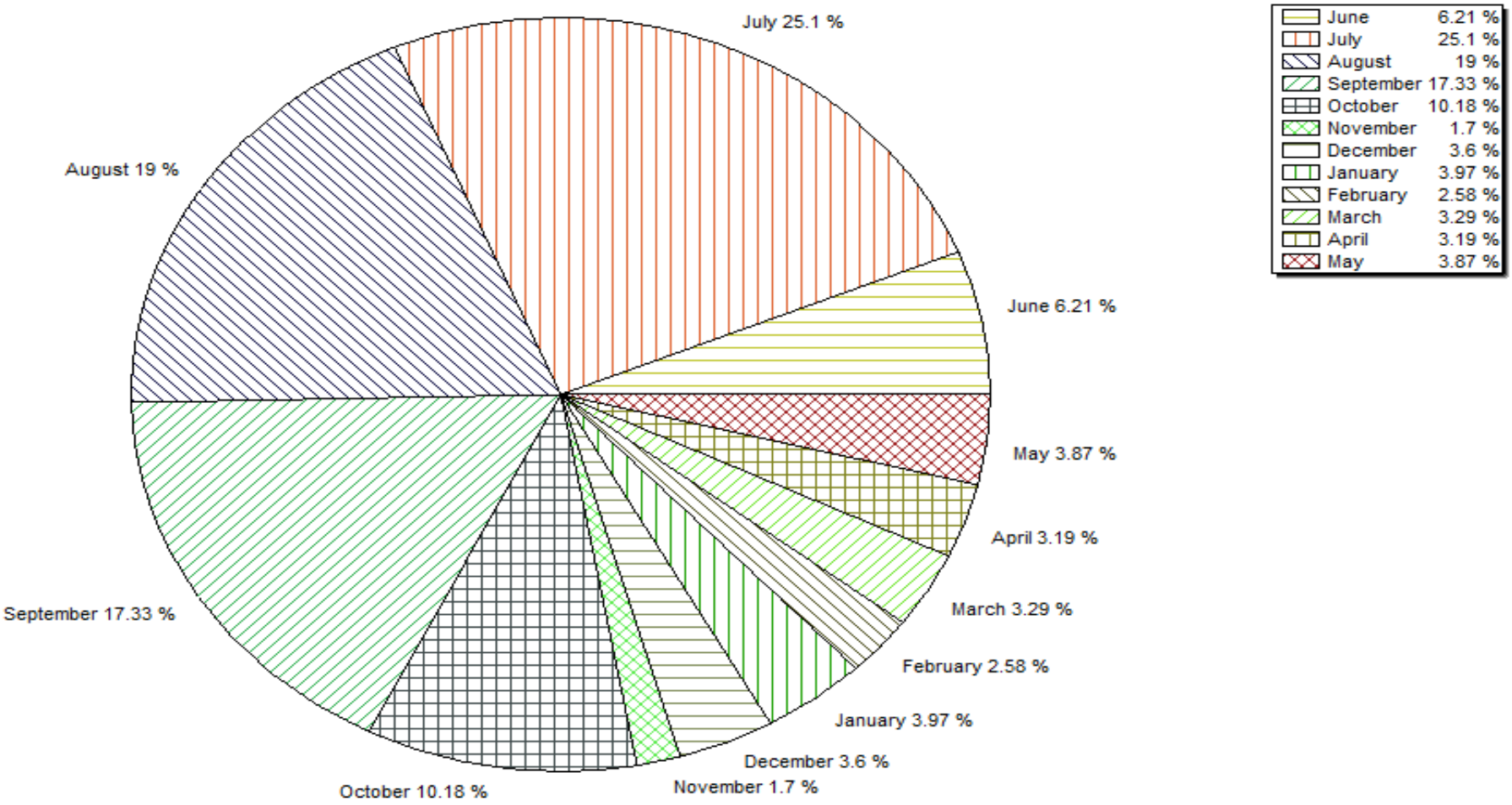
Monthly Runoff for the Year : 2016-2017

Station Name : Jagdalpur (AGG00R9)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

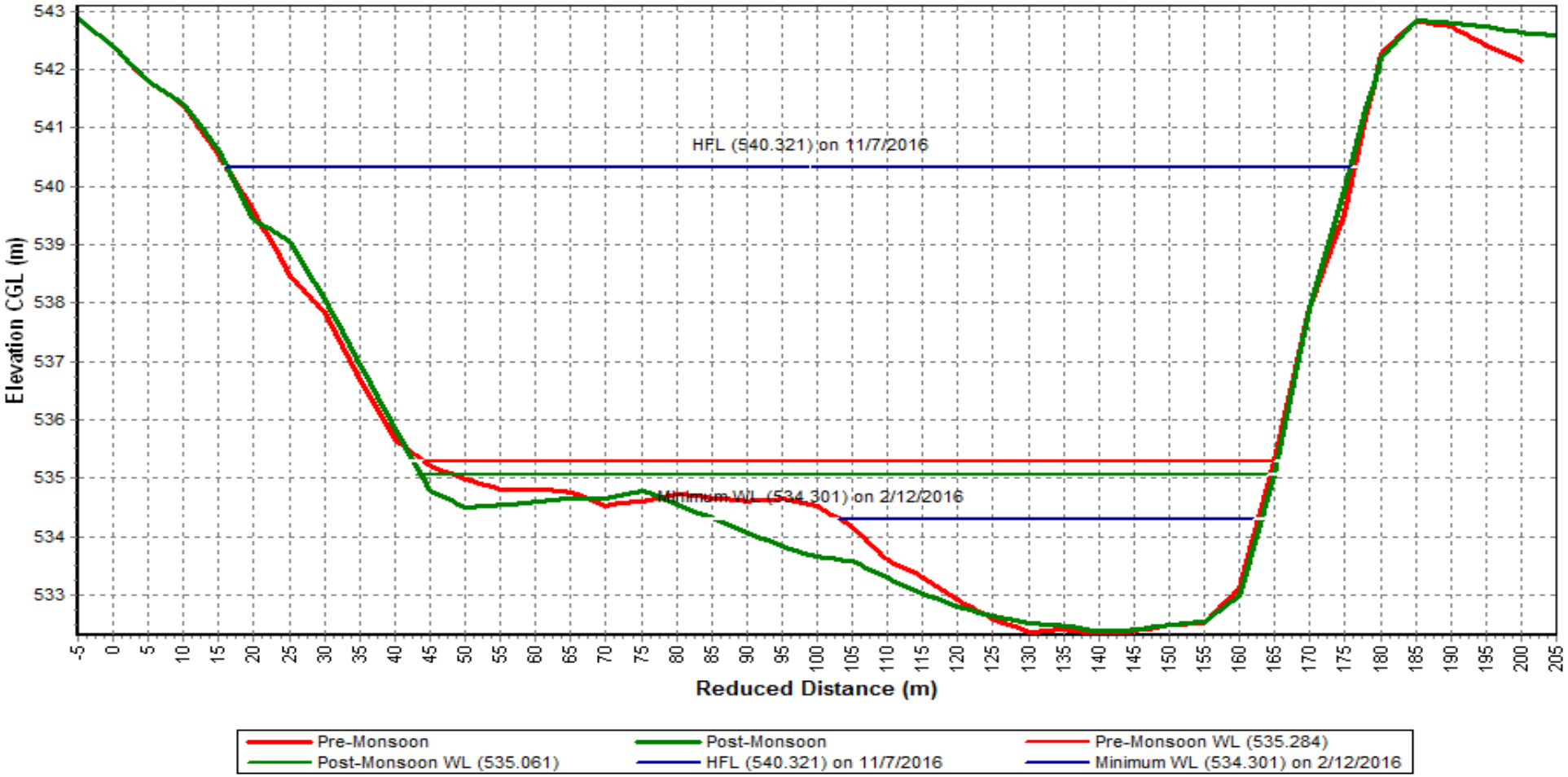
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

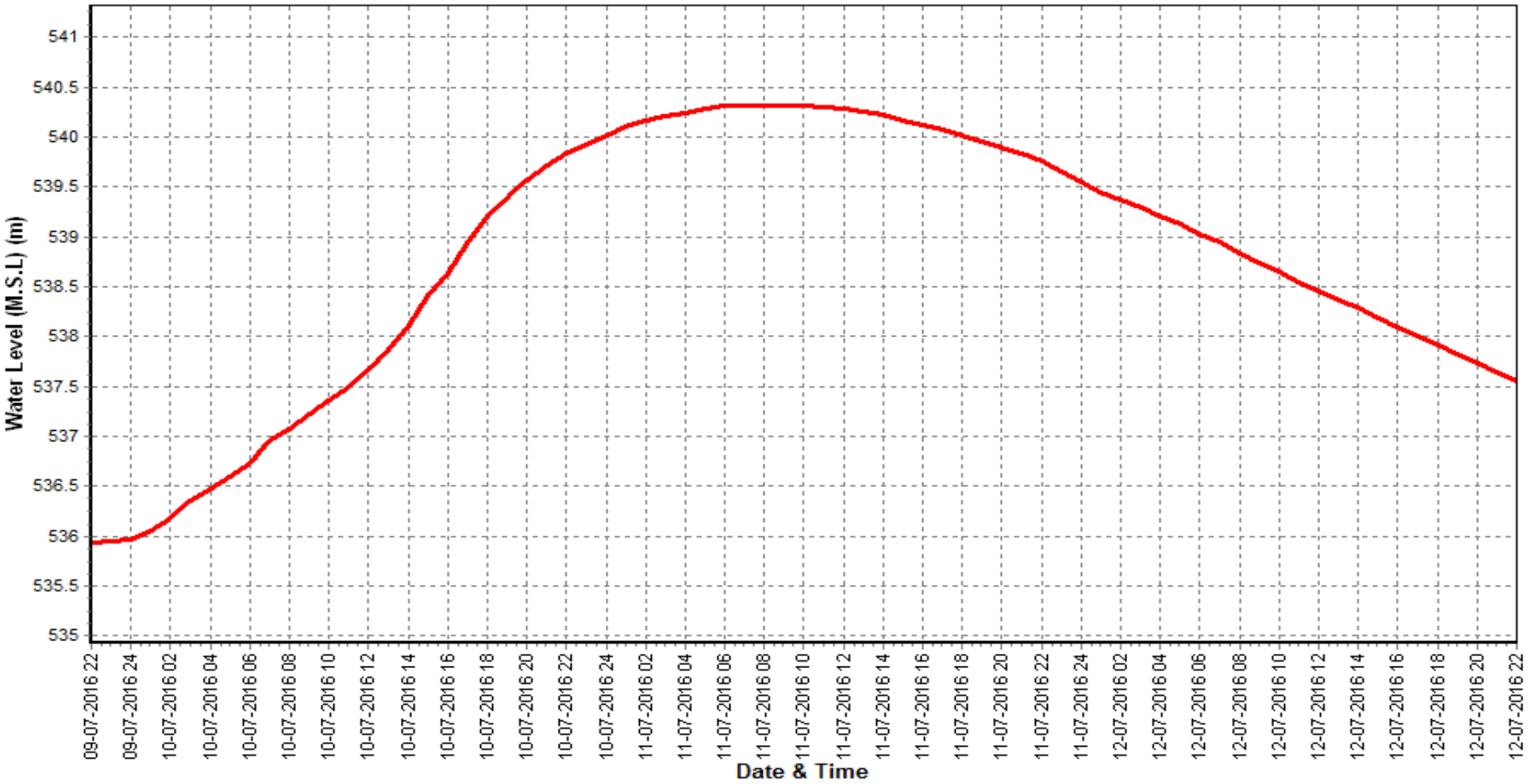
Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

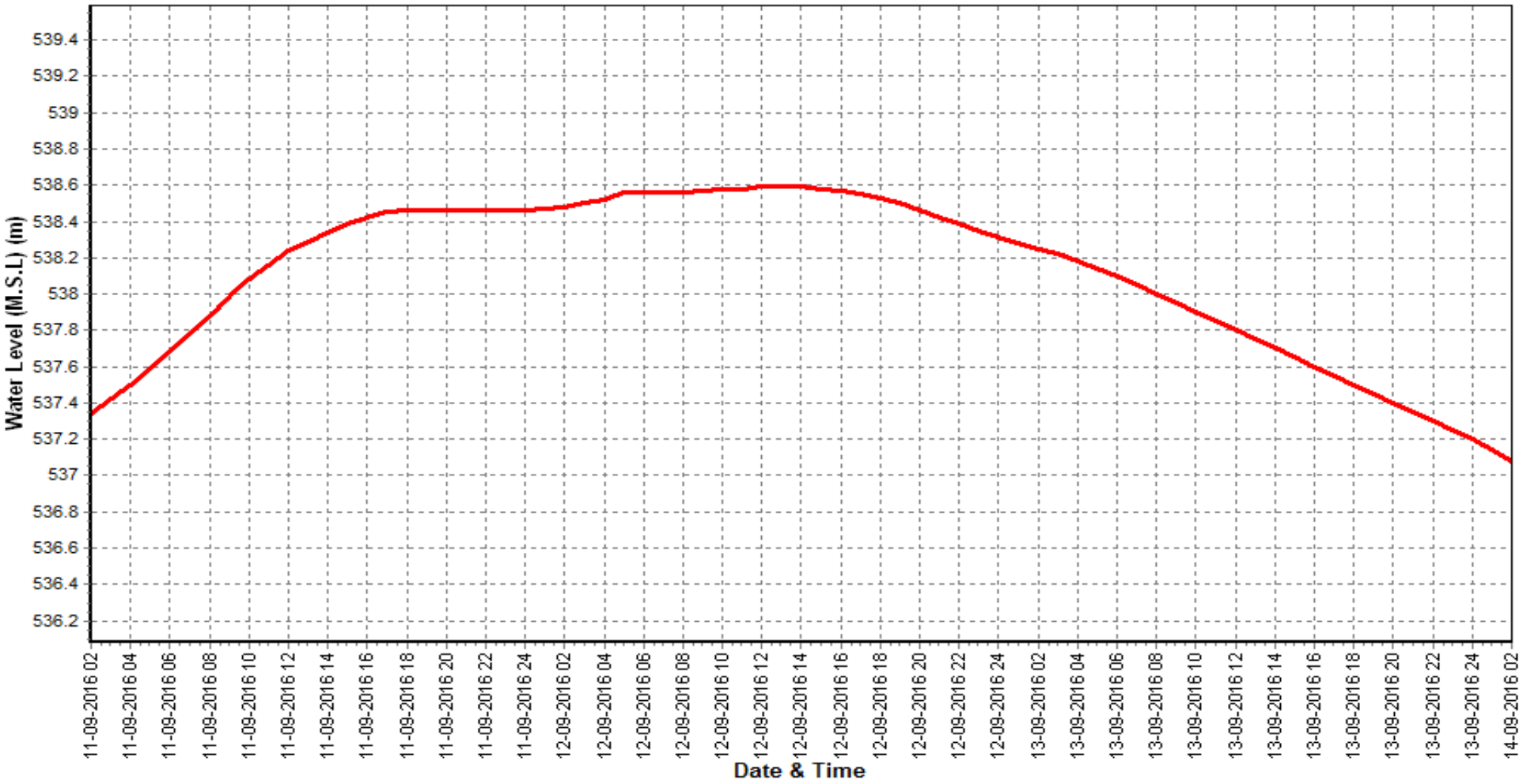


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

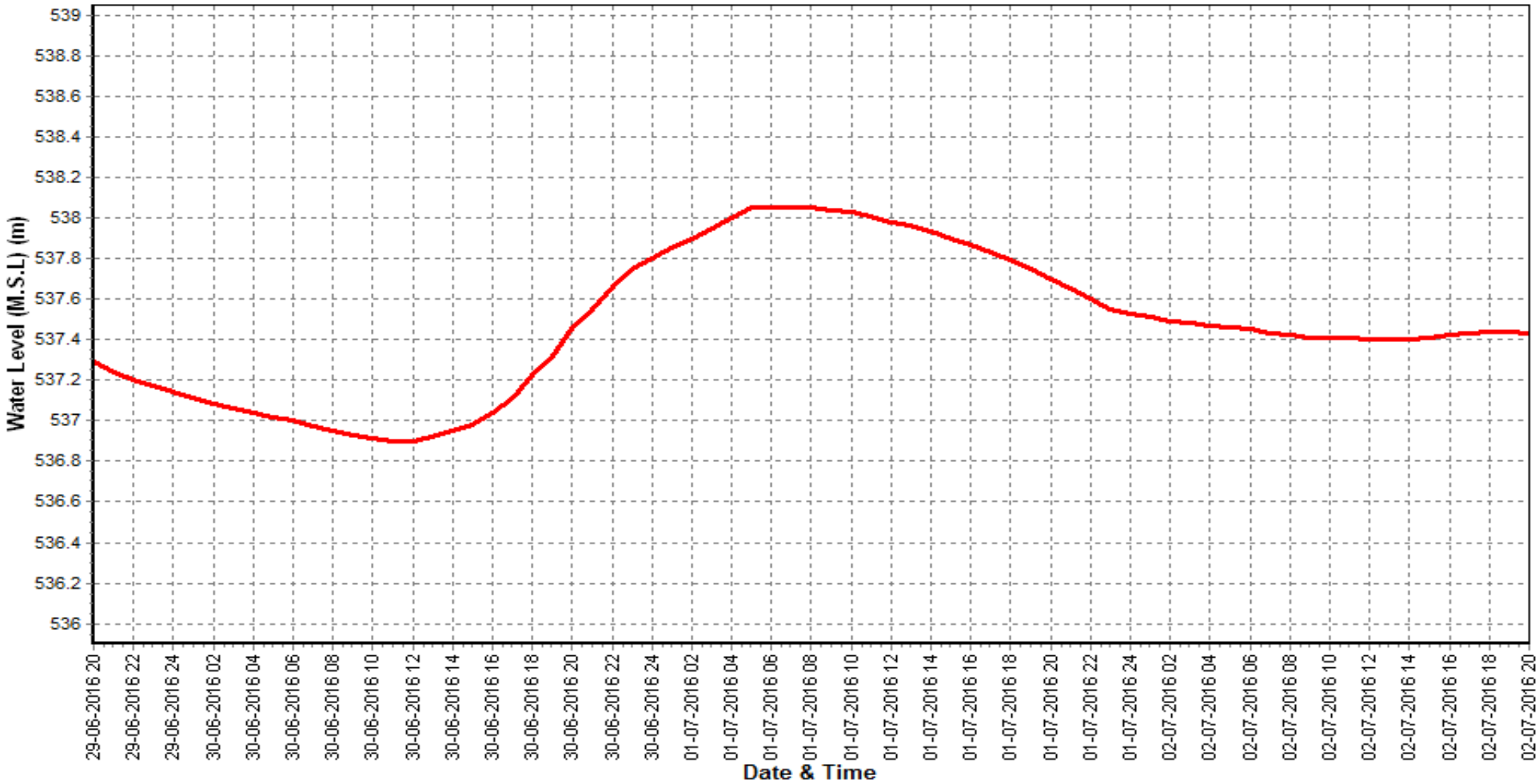


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Jagdalpur (AGG00R9) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Kosagumda**	**Code**	**:**	**Kosagumda**
State	:	Orissa	District		Nowrangpur
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	Bhaskal
Sub-Sub Tributary	:	-	Local River	:	Bhaskal
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	1635 Sq. Km.	Bank	:	Left
Latitude	:	19°16'37"	Longitude	:	82°14'00"
Zero of Gauge (m)	:	547 (m.s.l)	13.11.1996		
		Opening Date	Closing Date		
Gauge	:	13.11.1996	**HFL During 2016-17**	**:**	**552.73**
			Corres.Discharge	**:**	**539.062 Cumecs(Estimated)**
Discharge	:	13.11.1996	**Date& Time of Occurance**	**:**	**10.07.2016 19:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1998-1999	138.8	550.740	16.08.1998	0.081	548.195	23.06.1998
1999-2000	317.1	552.160	08.09.1999	0.000	548.130	29.04.2000
2000-2001	802.7	554.120	30.08.2000	0.000	548.130	21.02.2001
2001-2002	893.5	556.150	20.08.2001	0.000	548.010	24.01.2002
2002-2003	539.0	553.050	24.08.2002	0.000	547.950	19.01.2003
2003-2004	943.8	554.570	28.08.2003	0.000	547.930	10.06.2003
2004-2005	1182	555.560	15.06.2004	0.393	548.110	11.04.2005
2005-2006	666.3	553.000	14.09.2005	0.249	548.080	15.05.2006
2006-2007	1647	556.140	04.07.2006	0.421	547.700	04.04.2007
2007-2008	1516	555.630	07.08.2007	0.081	547.650	09.06.2007
2008-2009	791.0	553.160	10.08.2008	0.020	548.060	07.05.2009
2009-2010	703.1	552.820	26.08.2009	0.039	548.090	24.03.2010
2010-2011	1692	555.870	06.08.2010	0.275	548.030	25.03.2011
2011-2012	381.7	551.520	28.08.2011	0.000	548.050	22.03.2012
2012-2013	689.8	553.150	06.08.2012	0.054	548.090	14.04.2013
2013-2014	1158	555.040	14.06.2013	0.323	548.030	06.04.2014
2014-2015	8795	554.150	22.07.2014	0.349	548.080	25.03.2015
2015-2016	1021	555.630	17.09.2015	0.000	547.790	23.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Kosagumda (Kosagumda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	547.780	0.000	550.000	151.3	550.445	182.1	548.750	42.72	549.655	122.0	548.220	7.912
2	547.800	0.000	549.910	149.7	549.690	120.2	548.805	43.78	549.230	76.22 *	548.220	7.812
3	547.840	0.000	549.160	70.18 *	549.145	77.77	548.875	43.79	548.915	52.71	548.220	6.725
4	547.870	0.000	548.670	33.36	550.515	182.3	549.000	57.01 *	548.730	36.99 *	548.190	5.851
5	547.870	0.000	548.460	22.30	550.330	170.3	549.200	73.61 *	548.680	37.70	548.180	6.655
6	547.860	0.000	548.360	18.29	550.155	166.0	549.210	71.63	548.920	50.08	548.170	6.312 *
7	547.870	0.000	548.290	11.38 *	550.350	193.0 *	548.890	41.82	549.605	106.3	548.170	6.522
8	547.910	0.733	548.360	17.15	549.890	154.9	548.660	34.71	550.145	155.8	548.170	6.286
9	548.010	4.925	548.370	15.28 #	549.900	156.9	548.560	27.59	549.560	106.9 *	548.160	5.755
10	548.340	12.39	551.100	289.3 *	549.070	70.41	550.700	202.1	550.300	169.4	548.150	5.325
11	548.220	9.183	551.380	375.1	548.750	45.24	551.570	355.9 *	549.770	128.1 *	548.140	5.005
12	548.050	2.361 *	550.360	178.1	548.590	27.80 #	550.700	215.9	549.170	71.03 *	548.130	4.856 *
13	548.005	4.836	549.220	67.87	548.580	35.09	549.800	131.2 *	548.860	44.00	548.130	4.856 *
14	547.970	3.589	548.690	35.68	548.480	21.23 *	549.280	76.54	548.690	36.92	548.130	4.856 *
15	547.940	1.610	548.580	32.78	548.510	22.96 *	549.145	71.31	548.580	25.83	548.130	4.923
16	547.930	1.556	548.510	22.96 #	548.955	55.12	548.910	50.41	548.520	23.55 *	548.110	5.200
17	547.930	1.829	548.600	28.43 *	548.905	54.53	548.790	43.23	548.460	19.02	548.110	4.873
18	547.910	1.552	548.390	16.31 #	548.675	31.22	548.860	46.27 *	548.420	15.93	548.110	4.666
19	547.900	1.332 *	548.315	12.56 #	548.510	28.14	549.230	74.04	548.400	15.33	548.110	4.380
20	547.900	1.332	548.300	11.85 #	548.410	17.88	549.350	85.52	548.370	13.01	548.110	4.178 *
21	547.890	1.283	549.820	133.3	548.320	12.80 *	549.215	77.95	548.350	12.04	548.110	3.976
22	547.880	1.141	550.400	178.6	548.280	10.74	548.920	51.07	548.330	10.09	548.100	3.769
23	547.890	1.871	549.565	107.4 #	548.250	10.49	548.740	37.75	548.330	13.28 *	548.100	3.562
24	547.930	2.375	549.530	103.9 *	548.260	11.49	548.705	36.61	548.320	10.60	548.100	3.722
25	548.340	17.02	550.775	238.9	548.345	15.23	548.920	50.78 *	548.290	10.13	548.100	3.826
26	548.400	17.02 *	549.590	114.0	549.340	86.05 #	549.180	69.70	548.280	9.759	548.080	2.967
27	548.235	9.969	549.510	101.1	550.425	227.5	548.890	50.21	548.270	9.511	548.070	2.928 *
28	549.045	43.88	548.795	43.11	549.420	93.44 *	548.930	47.98	548.250	9.170	548.060	2.731
29	549.045	57.71	549.780	137.3	548.840	41.82	549.160	66.62	548.250	9.164	548.060	2.601
30	549.900	159.9	551.510	361.0	548.570	28.26	549.020	61.61	548.240	9.150 *	548.060	2.647
31			549.960	148.4 *	548.550	29.23			548.230	8.588		
Ten-Daily Mean												
I Ten-Daily	547.915	1.804	549.068	77.82	549.949	147.4	549.065	63.88	549.374	91.40	548.185	6.516
II Ten-Daily	547.975	2.918	549.034	78.16	548.637	33.92	549.564	115.0	548.724	39.27	548.121	4.779
III Ten-Daily	548.455	31.22	549.930	151.5	548.782	51.55	548.968	55.03	548.285	10.14	548.084	3.273
Monthly												
Min.	547.780	0.000	548.290	11.38	548.250	10.49	548.560	27.59	548.230	8.588	548.060	2.601
Max.	549.900	159.9	551.510	375.1	550.515	227.5	551.570	355.9	550.300	169.4	548.220	7.912
Mean	548.115	11.98	549.363	104.1	549.111	76.78	549.199	77.98	548.778	45.75	548.130	4.856

Annual Runoff in MCM = 867 Annual Runoff in mm = 530

Peak Observed Discharge = 375.1 cumecs on 11-07-2016 Corres. Water Level :551.38 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016 Corres. Water Level :547.78 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Kosagumda (Kosagumda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	548.050	2.685	548.010	1.391 *	548.010	1.275	547.910	0.449	547.850	0.073	547.840	0.000
2	548.050	2.597	548.010	1.323	548.000	1.111	547.910	0.477	547.890	0.073 *	547.870	0.000
3	548.040	2.715	548.010	1.261	547.970	0.779	547.920	0.534	547.870	0.080	547.880	0.000
4	548.040	2.715 *	548.010	1.205	547.990	0.986	547.930	0.576	547.860	0.077	547.870	0.000
5	548.040	2.558	548.020	1.440	547.980	0.986 *	547.940	0.576 *	547.880	0.077 *	547.903	0.306
6	548.040	2.409	548.020	1.442	547.980	0.941	547.920	0.511	547.940	0.704	547.935	0.603
7	548.030	2.127	548.020	1.375	547.970	0.842	547.940	0.622	547.920	0.656	547.960	0.603 *
8	548.030	2.091	548.020	1.375 *	547.970	0.869	547.920	0.561	547.910	0.656 *	548.080	2.466
9	548.030	2.033	548.020	1.340	547.990	0.914	547.950	0.872	547.900	0.656 *	548.000	2.103
10	548.030	2.033 *	548.020	1.256	547.980	0.842	548.040	0.872 *	547.880	0.123	548.010	2.103 *
11	548.030	2.033 *	548.020	1.320	547.980	0.842 *	548.040	0.872 *	547.870	0.113	548.020	1.366
12	548.020	2.033 *	548.020	1.305	547.970	0.842 *	548.030	1.151	547.860	0.111	548.020	1.170
13	548.020	1.659	548.020	1.279	547.990	0.916	548.020	1.160	547.860	0.100	547.960	1.170 *
14	548.020	1.733	548.020	1.279 *	547.980	0.851	547.990	0.871	547.850	0.100 *	547.960	1.170 *
15	548.020	1.655	548.010	1.279 *	547.980	0.942	547.960	0.740	547.850	0.092	547.940	1.404
16	548.020	1.546	548.000	1.141	547.980	0.834	547.940	0.581	547.860	0.092 *	547.930	1.081
17	548.020	1.450	548.000	1.061	547.980	0.890	547.940	0.581 *	547.860	0.150	547.960	1.306
18	548.010	1.450 *	548.000	0.969	547.960	0.770	547.920	0.608	547.850	0.124	547.960	1.407
19	548.010	1.417	547.990	0.899	547.950	0.770 *	547.910	0.360	547.840	0.123	547.920	0.901
20	548.010	1.328	547.980	1.032	547.940	0.624	547.900	0.294	547.900	0.307	547.900	0.898
21	548.010	1.260	547.980	1.087	547.950	0.691	547.890	0.097	547.920	0.355	547.880	0.898 *
22	548.000	1.206	547.980	1.087 *	547.940	0.672	547.870	0.095	547.910	0.292	547.850	0.292
23	548.000	1.242	547.980	0.999	547.920	0.565	547.870	0.104	547.900	0.292 *	547.840	0.181
24	548.000	1.462	548.000	1.183	547.930	0.699	547.870	0.104 *	547.890	0.272	547.830	0.000
25	548.000	1.462 *	548.000	1.167	547.930	0.611	547.880	0.103	547.880	0.271	547.830	0.000
26	548.000	1.354	547.990	1.167 *	547.930	0.611 *	547.880	0.110	547.880	0.272	547.850	0.197
27	548.000	1.248	548.000	1.178	547.910	0.457	547.860	0.110 *	547.840	0.000	547.870	0.513
28	547.990	1.252	548.000	1.158	547.910	0.457	547.870	0.095	547.850	0.000	547.860	0.513 *
29	548.010	1.382	548.000	1.158 *			547.860	0.101	547.850	0.000	547.920	1.052
30	548.010	1.385	548.000	1.145			547.860	0.101 *	547.850	0.000	547.900	0.975
31	548.010	1.391	548.010	1.152			547.850	0.101 *			547.910	1.075
Ten-Daily M												
I Ten-Daily	548.038	2.396	548.016	1.341	547.984	0.954	547.938	0.605	547.890	0.317	547.935	0.818
II Ten-Daily	548.018	1.630	548.006	1.156	547.971	0.828	547.965	0.722	547.860	0.131	547.957	1.187
III Ten-Daily	548.003	1.331	547.995	1.135	547.927	0.595	547.869	0.102	547.877	0.175	547.867	0.518
Monthly												
Min.	547.990	1.206	547.980	0.899	547.910	0.457	547.850	0.095	547.840	0.000	547.830	0.000
Max.	548.050	2.715	548.020	1.442	548.010	1.275	548.040	1.160	547.940	0.704	548.080	2.466
Mean	548.019	1.771	548.005	1.208	547.963	0.807	547.922	0.464	547.876	0.208	547.918	0.831

Peak Computed Discharge = 355.9 cumecs on 11-09-2016 **Corres. Water Level :551.57 m**

Lowest Computed Discharge = 0.073 cumecs on 02-04-2017 **Corres. Water Level :547.89 m**

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

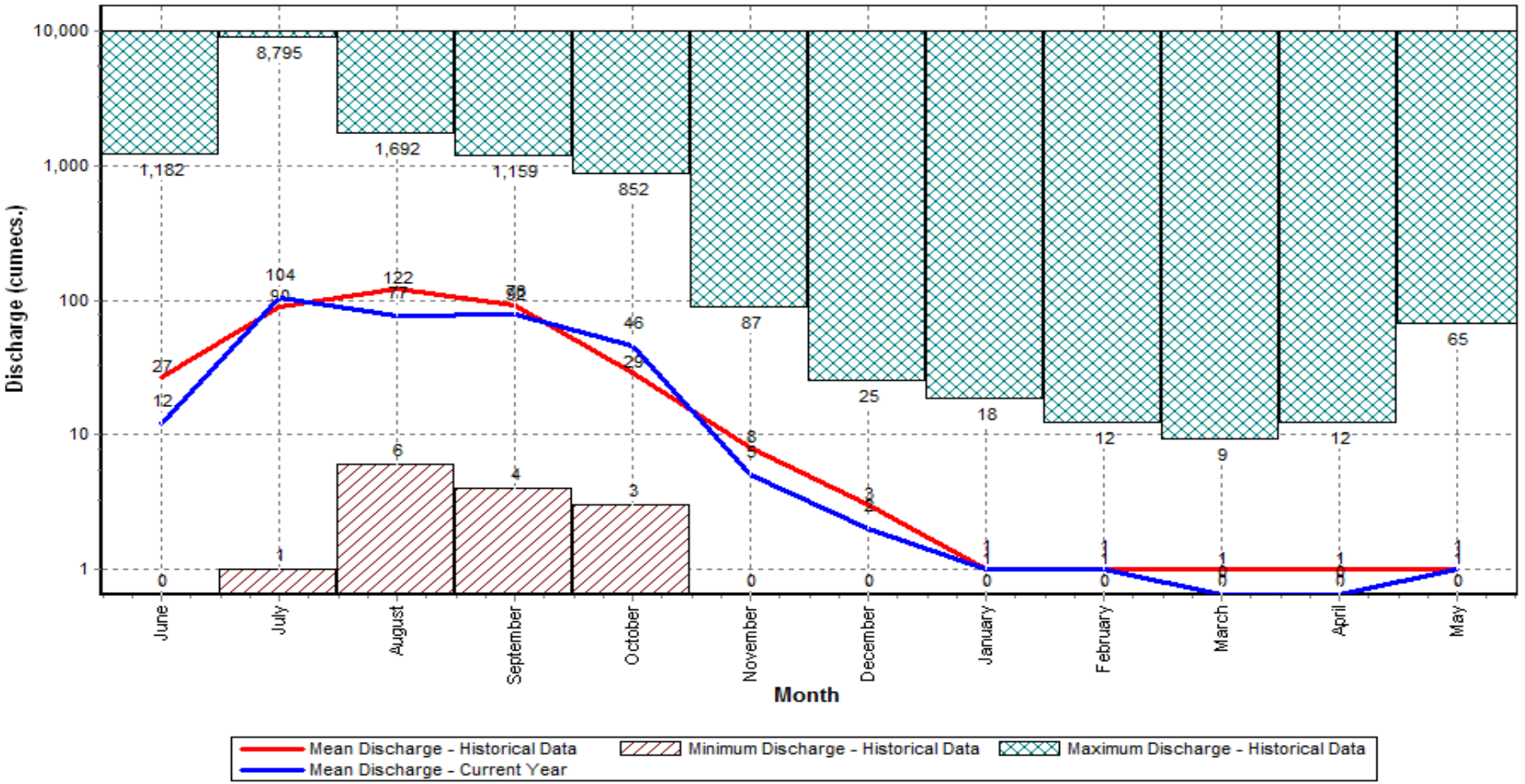
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Kosagumda (Kosagumda) | **Data considered : 1998-2017** | **Division : Lower Godavari Div., Hyderabad**

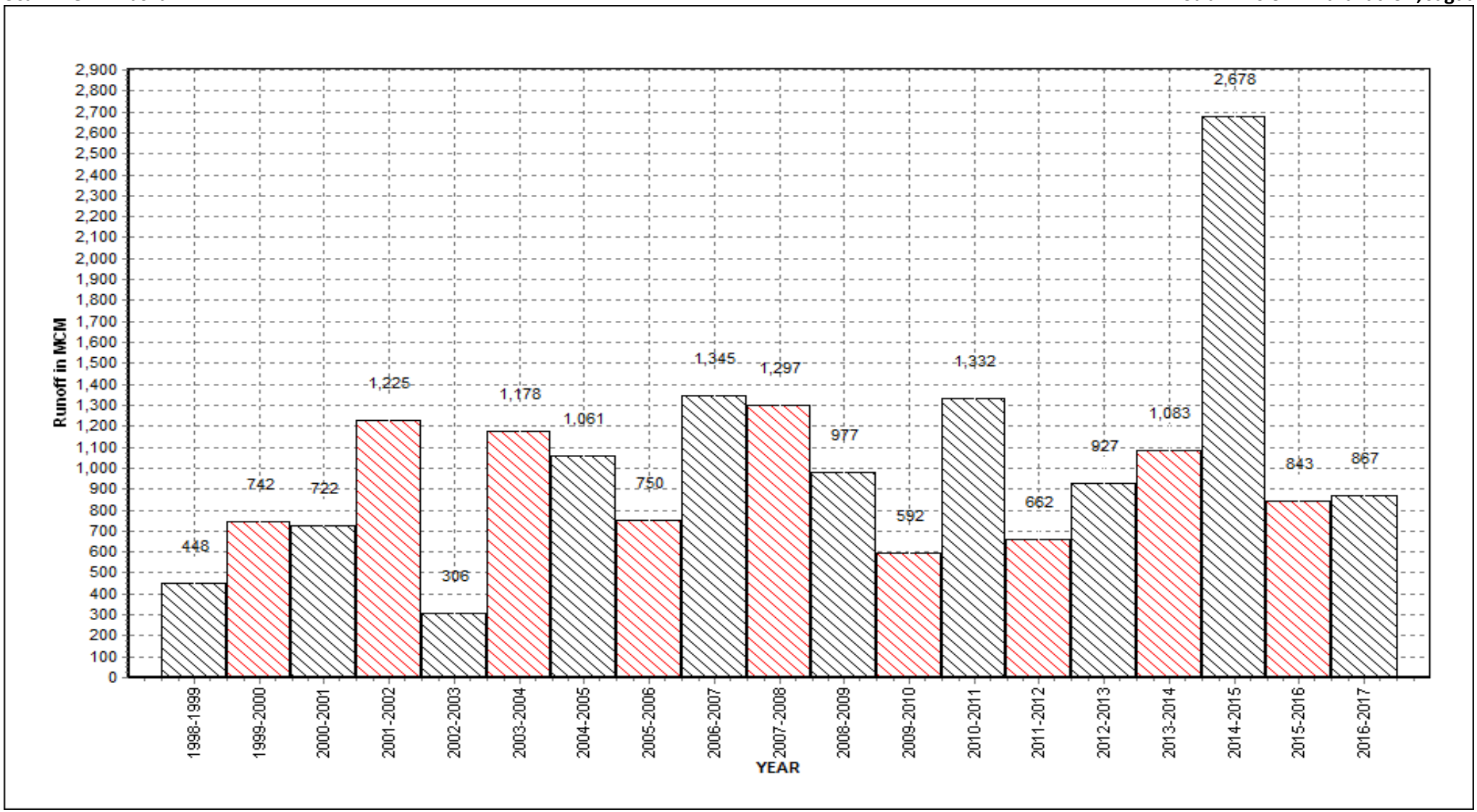
Local River : Bhaskal | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1998 - 2017

Station Name : Kosagumda (Kosagumda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

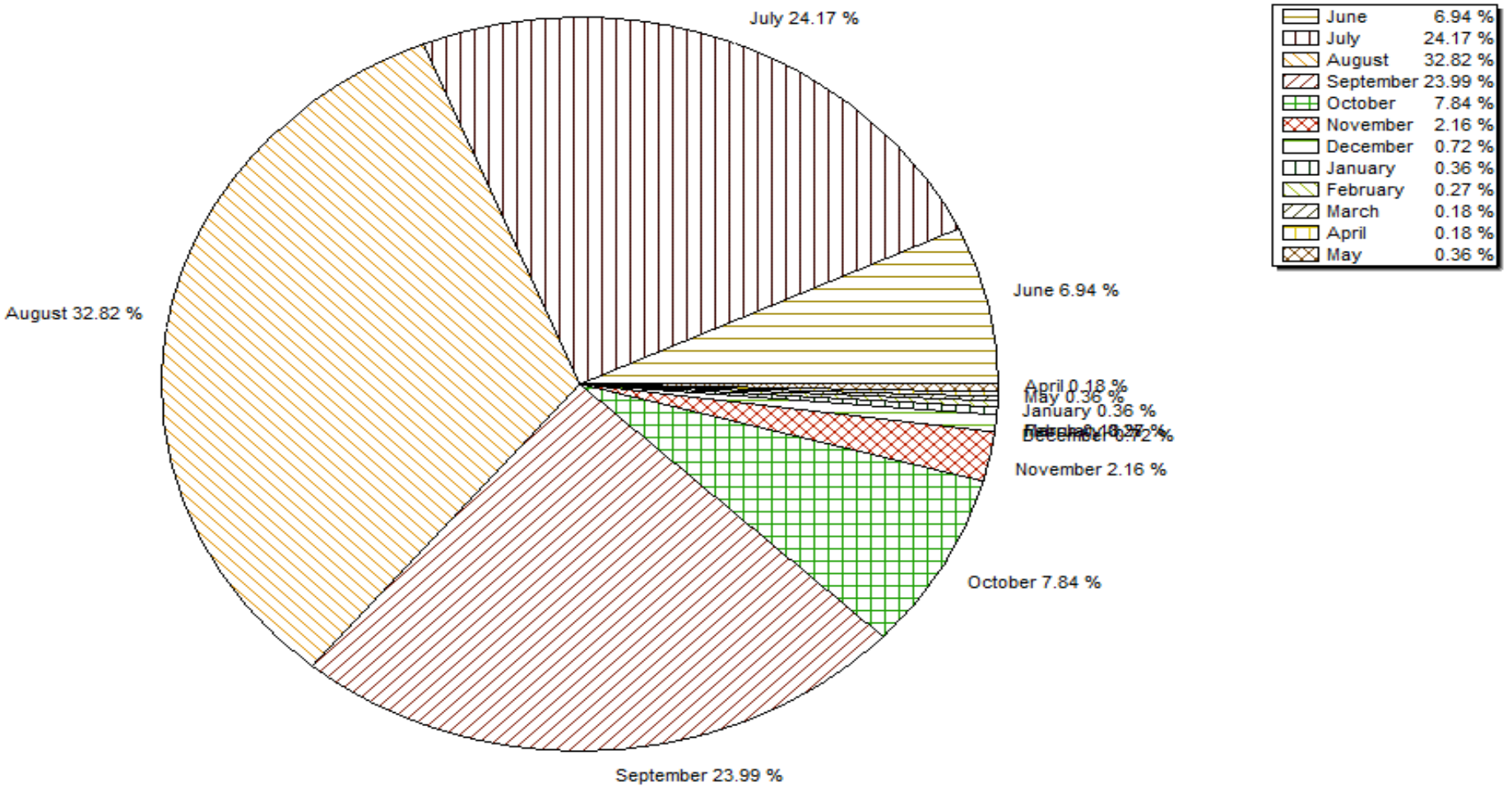
Monthly Average Runoff based on period : 1998-2016

Station Name : Kosagumda (Kosagumda)

Local River : Bhaskal

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



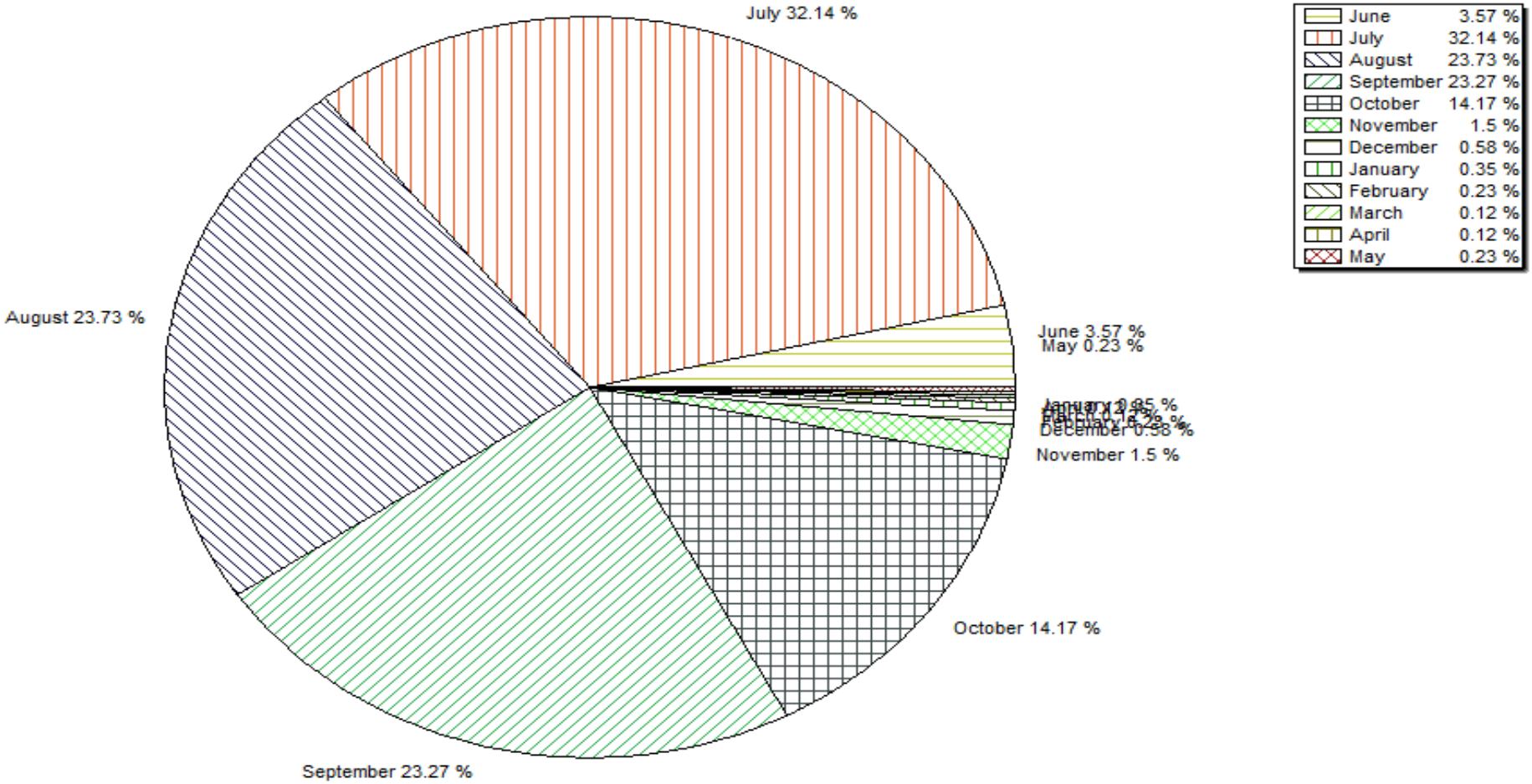
Monthly Runoff for the Year : 2016-2017

Station Name : Kosagumda (Kosagumda)

Local River : Bhaskal

Division : Lower Godavari Div., Hyderabad

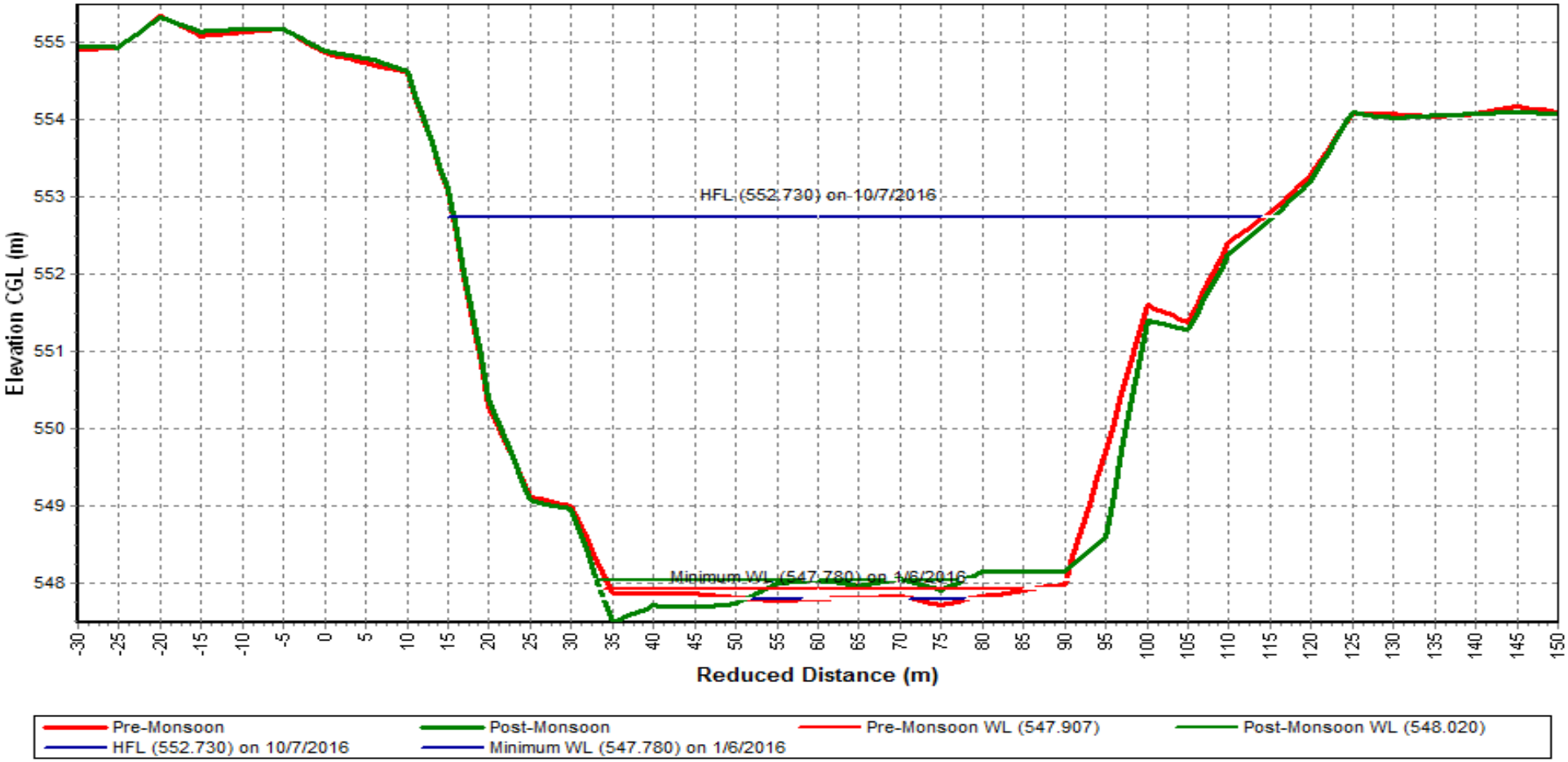
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Kosagumda (Kosagumda) **Division : Lower Godavari Div., Hyderabad**

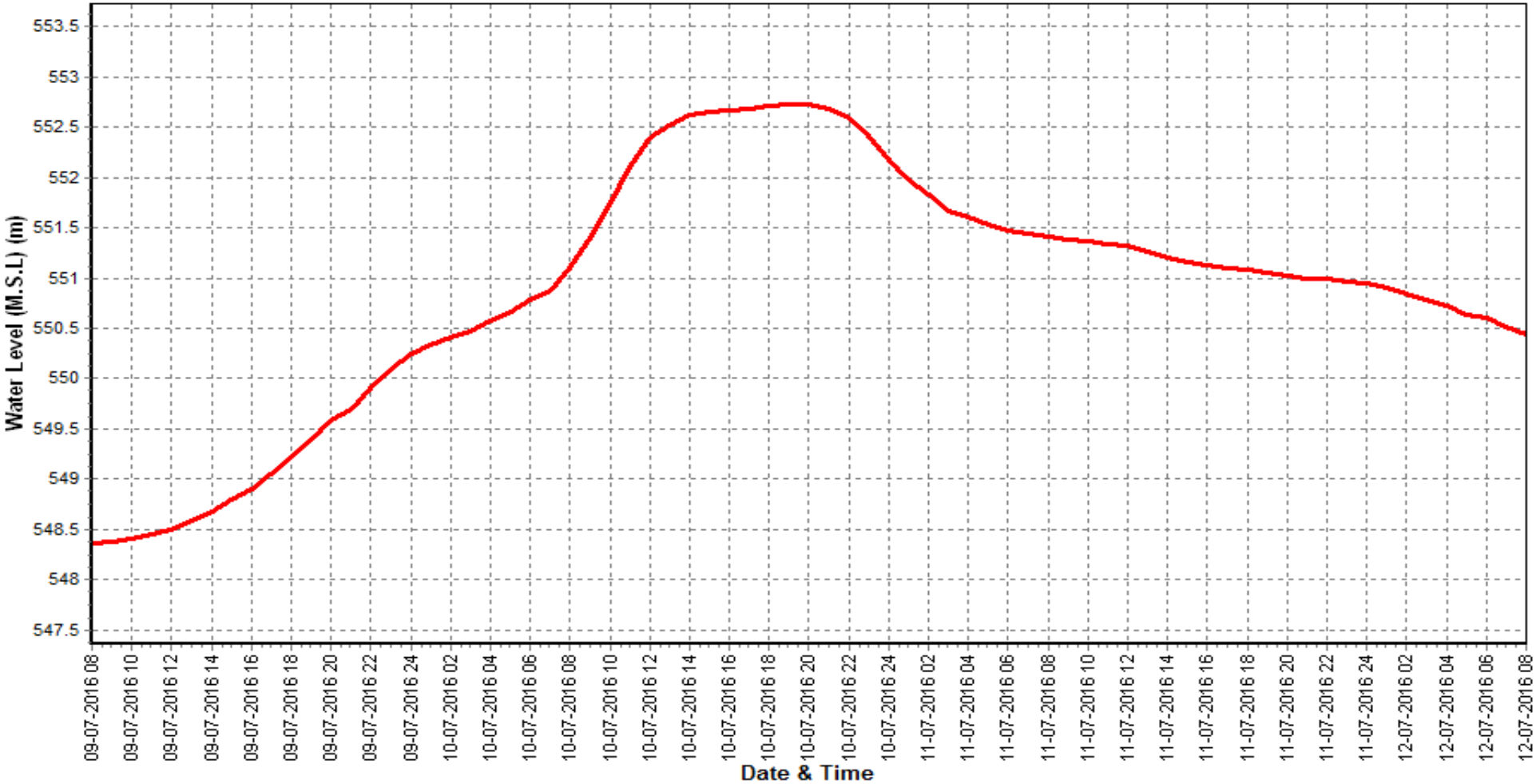
Local River : Bhaskal **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Kosagumda (Kosagumda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : Indravati SD, Jagdalpur**

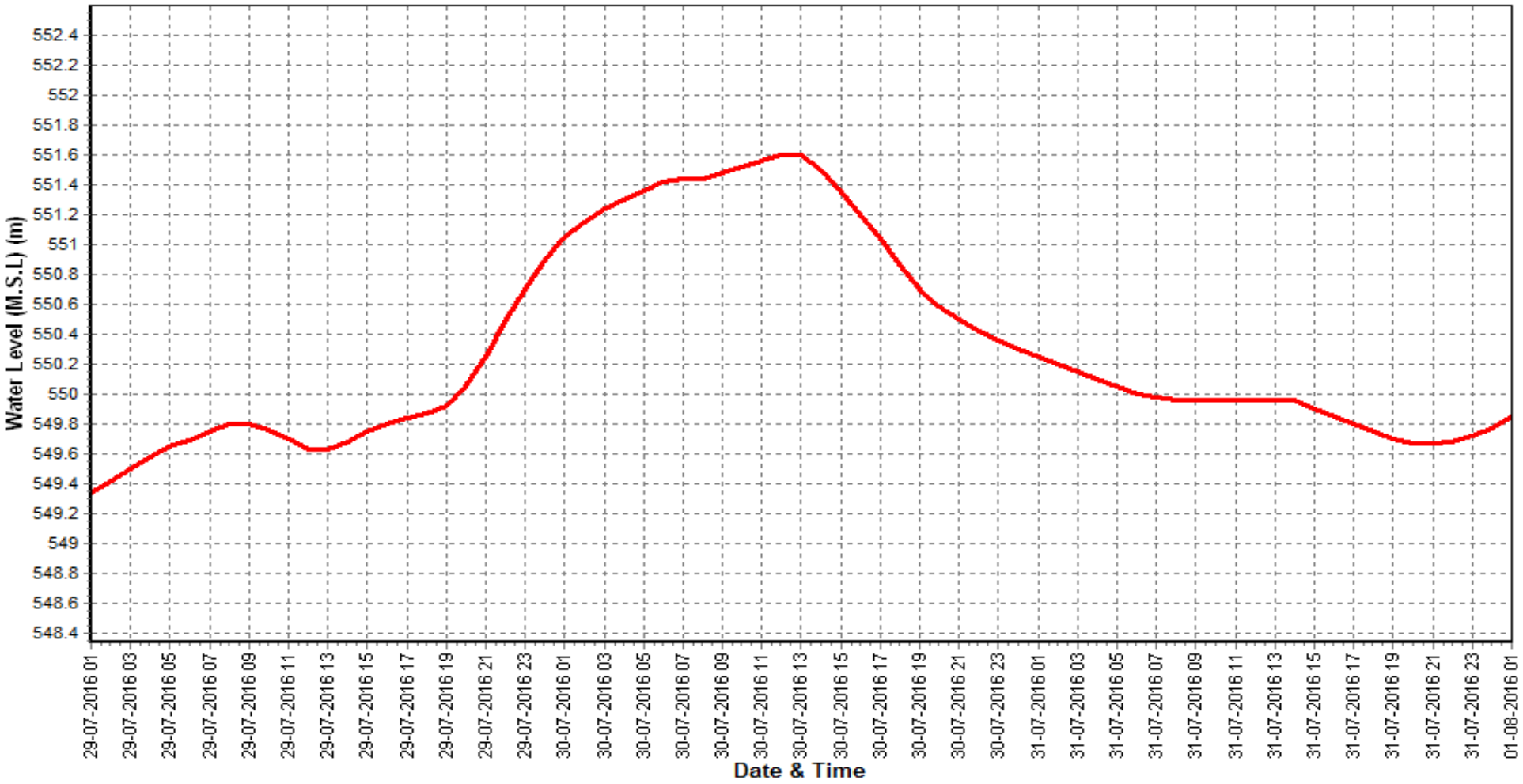


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Kosagumda (Kosagumda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : Indravati SD, Jagdalpur**

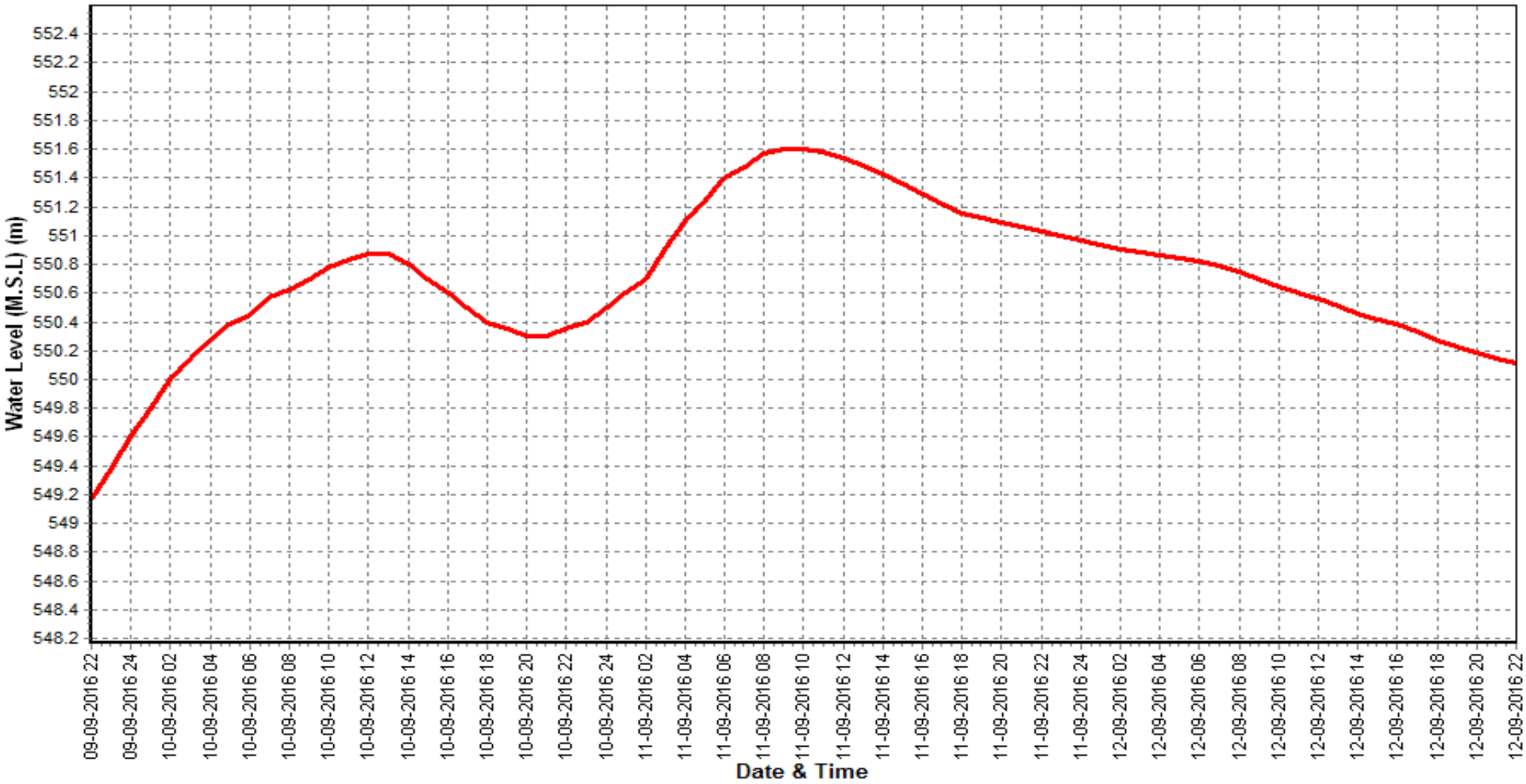


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Kosagumda (Kosagumda) **Division : Lower Godavari Div., Hyderabad**

Local River : Bhaskal **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Murthahandi**	**Code**	**:**	**AGC40E9**
State	:	Orissa	District		Koraput
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	Journala
Sub-Sub Tributary	:	-	Local River	:	Journala
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	Sq. Km.	Bank	:	Right
Latitude	:	19°03'00"	Longitude	:	82°17'00"
Zero of Gauge (m)	:	533.6 (m.s.l) 533.6 (m.s.l)	01.06.1976 15.02.1979	-	14.02.1979
		Opening Date	Closing Date		
Gauge	:	15.02.1979	**HFL During 2016-17**	**:**	**539.55**
			Corres.Discharge	**:**	**482.936 Cumecs(Estimated)**
Discharge	:	01.12.1988	**Date& Time of Occurance**	**:**	**11.07.2016 12:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1989-1990	508.2	539.850	28.08.1989	5.968	534.470	01.06.1989
1990-1991	1012	542.320	06.10.1990	10.55	534.770	22.05.1991
1991-1992	956.3	542.190	30.07.1991	6.788	534.680	26.05.1992
1992-1993	1554	543.930	29.07.1992	7.546	534.640	03.05.1993
1993-1994	421.5	540.240	16.07.1993	7.012	534.600	15.05.1994
1994-1995	1538	544.440	06.09.1994	2.371	534.780	04.06.1994
1995-1996	1190	542.890	01.09.1995	12.29	534.620	22.05.1996
1996-1997	324.4	539.080	21.07.1996	13.68	534.780	31.05.1997
1997-1998	373.9	539.410	22.08.1997	7.744	534.560	30.05.1998
1998-1999	389.6	539.350	12.07.1998	3.429	534.360	25.04.1999
1999-2000	347.3	538.160	09.09.1999	4.428	534.430	07.04.2000
2000-2001	683.3	541.420	31.08.2000	3.310	534.370	30.04.2001
2001-2002	824.5	542.200	21.08.2001	3.738	534.360	08.06.2001
2002-2003	560.4	540.330	24.08.2002	1.152	534.110	24.05.2003
2003-2004	705.0	541.030	08.09.2003	1.156	534.160	01.06.2003
2004-2005	666.9	540.780	15.06.2004	3.480	534.310	29.05.2005
2005-2006	539.5	540.290	13.09.2005	3.940	534.340	19.06.2005
2006-2007	967.9	542.200	05.07.2006	5.811	534.440	01.05.2007
2007-2008	642.6	540.990	30.06.2007	7.400	534.500	14.06.2007
2008-2009	432.3	540.400	11.08.2008	6.605	534.430	20.03.2009
2009-2010	295.9	538.670	20.07.2009	5.521	534.340	14.04.2010

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2010-2011	1882	545.090	06.08.2010	7.201	534.390	05.06.2010
2011-2012	423.8	539.470	02.09.2011	2.266	533.970	01.04.2012
2012-2013	685.2	541.240	06.08.2012	2.617	534.020	09.06.2012
2013-2014	821.0	541.700	15.06.2013	5.432	534.150	12.04.2014
2014-2015	541.2	540.550	29.07.2014	0.734	533.770	07.04.2015
2015-2016	613.9	540.560	16.09.2015	0.000	533.780	01.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	533.740	0.000	537.790	240.7 *	536.440	115.8	535.790	68.58	535.820	74.31	534.490	14.66
2	533.740	0.000	537.520	200.7	536.630	127.2	535.970	78.31	536.470	114.9 *	534.460	14.42
3	533.740	0.000	536.970	157.0 *	536.540	125.2	535.855	73.61	536.710	134.4	534.460	13.90
4	533.750	0.000	536.220	78.85	536.625	126.2	536.025	83.06 *	536.160	97.56	534.430	13.40
5	533.740	0.000	536.030	69.75	537.820	244.2 *	536.745	137.2 *	535.665	62.15	534.450	13.91
6	533.740	0.000	536.290	78.29	537.820	244.2 *	537.045	176.3	535.820	71.64	534.450	12.32 *
7	533.740	0.000	536.020	82.73 *	537.510	210.1 *	536.400	98.82	536.030	81.95	534.430	12.74
8	533.780	0.000	535.525	52.21	537.790	240.7 *	535.980	79.95	536.710	133.8	534.410	13.28
9	533.910	0.000	535.625	52.52	537.030	175.3	535.715	74.67	536.450	113.3 *	534.390	11.68
10	533.800	0.000	537.600	219.7 *	536.340	105.5	535.945	76.86	536.290	86.84	534.380	11.20
11	533.780	0.000	539.440	465.3 *	535.895	72.24	536.700	133.4 *	536.350	105.8 *	534.370	10.92
12	533.760	0.000	537.980	262.8 *	535.650	57.92	537.275	184.7	536.260	99.21 *	534.360	10.79
13	533.750	0.000	536.660	136.7	535.750	62.44	537.390	197.6 *	535.810	68.58	534.350	9.983 *
14	533.740	0.000	536.160	91.87	535.720	64.29 *	536.550	120.8	535.460	54.70	534.350	9.983 *
15	533.740	0.000	535.750	64.84	535.510	52.80 *	536.215	98.10	535.245	44.20	534.340	10.71
16	533.740	0.000	535.765	65.67	535.920	75.23	536.180	96.16	535.110	34.11 *	534.340	10.70
17	533.740	0.000	536.100	88.06 *	536.375	103.7	535.905	76.93	534.980	33.60	534.330	10.49
18	533.750	0.000	535.840	71.31	536.210	95.29	535.730	64.87 *	534.890	31.15	534.330	10.46
19	533.750	0.000	535.605	55.85	535.785	67.07	535.830	72.53	534.830	25.98	534.320	10.35
20	533.750	0.000	536.255	100.4	535.470	47.94	536.535	118.4	534.780	23.75	534.320	9.332 *
21	533.740	0.000	536.620	126.3	535.290	42.00 *	536.310	102.4	534.750	22.88	534.310	10.49
22	533.740	0.000	536.855	145.9	535.130	34.57	536.040	83.11	534.710	21.20	534.300	10.24
23	533.720	0.000	536.670	125.2	535.035	29.83	535.795	71.10	534.690	18.95 *	534.290	10.16
24	534.050	0.000	536.320	103.6 *	535.030	29.33	535.725	68.26	534.665	19.96	534.280	9.059
25	535.700	63.15 *	536.415	115.1	534.975	28.91	535.770	67.20 *	534.620	18.34	534.270	8.805
26	535.590	57.04 *	536.230	103.0	535.315	44.06	535.625	58.94	534.600	17.94	534.260	8.528
27	535.450	42.52	535.860	70.92	535.970	75.20	535.445	50.79	534.570	17.59	534.240	7.705 *
28	536.080	77.32	535.510	56.93	537.200	178.6 *	535.390	47.95	534.550	17.11	534.240	7.870
29	536.300	102.1 *	535.280	44.21	536.375	96.68	535.460	52.10	534.530	16.59	534.230	7.718
30	537.250	196.0	536.245	83.64	536.075	80.76	535.655	62.91	534.550	14.90 *	534.220	7.449
31			535.830	70.78 *	535.725	65.29			534.520	15.86		
Ten-Daily Mean												
I Ten-Daily	533.768	0.000	536.559	123.3	537.055	171.4	536.147	94.74	536.213	97.09	534.435	13.15
II Ten-Daily	533.750	0.000	536.555	140.3	535.828	69.89	536.431	116.3	535.371	52.11	534.341	10.37
III Ten-Daily	535.162	53.81	536.167	95.05	535.647	64.12	535.721	66.48	534.614	18.30	534.264	8.802
Monthly												
Min.	533.720	0.000	535.280	44.21	534.975	28.91	535.390	47.95	534.520	14.90	534.220	7.449
Max.	537.250	196.0	539.440	465.3	537.820	244.2	537.390	197.6	536.710	134.4	534.490	14.66
Mean	534.227	17.94	536.419	118.7	536.160	100.6	536.100	92.52	535.374	54.62	534.347	10.77

Annual Runoff in MCM = 1123 **Annual Runoff in mm =**

Peak Observed Discharge = 200.7 cumecs on 02-07-2016 **Corres. Water Level :537.52 m**

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016 **Corres. Water Level :533.74 m**

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	534.210	7.429	534.060	4.628 *	534.060	4.007	534.020	4.002	533.980	3.213	534.020	4.060
2	534.210	7.411	534.060	4.734	534.050	4.000	534.020	3.908	533.980	3.516 *	534.030	4.139
3	534.200	7.319	534.060	4.750	534.060	4.121	534.010	3.741	533.950	3.094	534.050	4.543
4	534.190	6.770 *	534.060	4.616	534.050	3.975	534.010	3.673	533.920	2.841	534.130	5.017
5	534.180	6.855	534.050	4.465	534.040	4.335 *	534.030	4.193 *	533.930	2.901 *	534.110	4.900
6	534.170	6.775	534.050	4.373	534.020	3.705	534.030	3.812	533.970	3.331	534.130	5.351
7	534.160	6.709	534.050	4.324	534.020	3.602	534.050	4.273	534.020	4.019	534.160	6.239 *
8	534.160	6.236	534.060	4.628 *	534.020	3.649	534.060	4.660	534.010	3.903	534.150	6.180
9	534.160	6.167	534.070	4.871	534.030	3.998	534.090	5.182	534.000	3.780 *	534.160	6.222
10	534.150	6.056	534.060	4.783	534.040	4.297	534.070	4.985	533.970	3.290	534.200	6.952 *
11	534.140	5.897 *	534.060	4.750	534.050	4.389	534.090	5.227	533.960	3.208	534.320	8.076
12	534.140	5.897 *	534.050	4.445	534.060	4.628 *	534.110	5.403 *	533.970	3.395	534.290	7.858
13	534.170	6.414	534.050	4.316	534.050	4.373	534.140	5.902	533.980	3.650	534.190	6.646
14	534.160	6.335	534.040	4.191	534.040	4.283	534.110	5.625	533.980	3.516 *	534.150	6.067 *
15	534.160	6.255	534.050	4.481 *	534.010	3.986	534.100	5.160	534.010	3.710	534.190	6.860
16	534.150	6.065	534.050	4.770	534.030	4.104	534.080	4.765	534.020	4.053 *	534.240	7.500
17	534.150	6.010	534.050	4.676	534.030	4.090	534.070	4.605	534.030	3.784	534.180	6.804
18	534.140	5.897 *	534.050	4.613	534.040	4.175	534.070	4.575	534.030	3.779	534.100	5.501
19	534.130	5.790	534.050	4.527	534.040	4.335 *	534.100	5.243 *	534.030	3.748	534.050	4.918
20	534.120	5.694	534.050	4.389	534.030	4.123	534.090	4.975	534.050	4.311	534.040	4.856
21	534.110	5.585	534.040	4.289	534.030	4.073	534.070	4.785	534.120	5.628	534.040	4.335 *
22	534.100	5.428	534.040	4.335 *	534.030	4.049	534.060	4.644	534.170	6.314	534.030	4.423
23	534.220	7.132	534.030	4.180	534.040	4.213	534.040	4.230	534.100	5.243 *	534.010	4.194
24	534.190	6.936	534.020	4.019	534.020	4.019	534.050	4.289	534.080	4.963	533.990	3.815
25	534.130	5.730 *	534.010	3.876	534.020	3.954	534.070	4.694	534.060	4.778	534.000	3.908
26	534.100	5.473	534.010	3.915 *	534.010	3.915 *	534.050	4.481 *	534.070	4.833	534.070	4.760
27	534.090	5.323	534.010	3.812	534.000	3.750	534.050	4.351	534.020	3.988	534.120	5.497
28	534.080	5.041	534.060	3.999	534.010	3.819	534.040	4.316	534.000	3.722	534.090	5.085 *
29	534.080	4.916	534.060	4.628 *			534.020	4.053 *	534.000	3.729	534.060	4.824
30	534.080	4.825	534.050	3.915			534.010	3.727	534.010	3.915 *	534.020	4.155
31	534.070	4.754	534.040	3.834			534.000	3.660			534.010	3.945
Ten-Daily M												
I Ten-Daily	534.179	6.773	534.058	4.617	534.039	3.969	534.039	4.243	533.973	3.389	534.114	5.360
II Ten-Daily	534.146	6.025	534.050	4.516	534.038	4.249	534.096	5.148	534.006	3.715	534.175	6.509
III Ten-Daily	534.114	5.558	534.034	4.073	534.020	3.974	534.042	4.294	534.063	4.711	534.040	4.449
Monthly												
Min.	534.070	4.754	534.010	3.812	534.000	3.602	534.000	3.660	533.920	2.841	533.990	3.815
Max.	534.220	7.429	534.070	4.871	534.060	4.628	534.140	5.902	534.170	6.314	534.320	8.076
Mean	534.145	6.101	534.047	4.391	534.033	4.07	534.058	4.553	534.014	3.938	534.107	5.407

Peak Computed Discharge = 465.3 cumecs on 11-07-2016 Corres. Water Level :539.44 m

Lowest Computed Discharge = 2.901 cumecs on 05-04-2017 Corres. Water Level :533.93 m

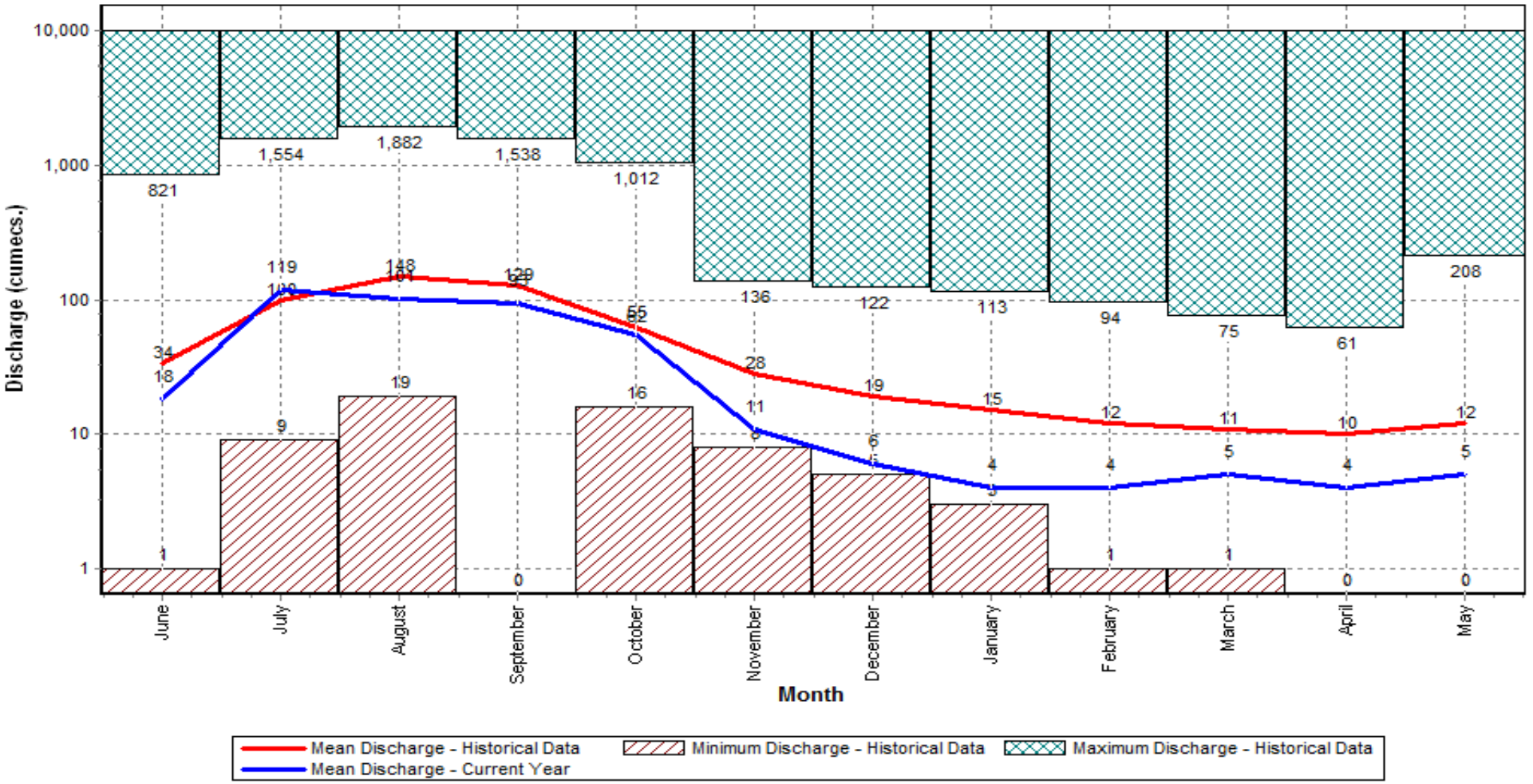
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Murthahandi (AGC40E9) | **Data considered : 1989-2017** | **Division : Lower Godavari Div., Hyderabad**

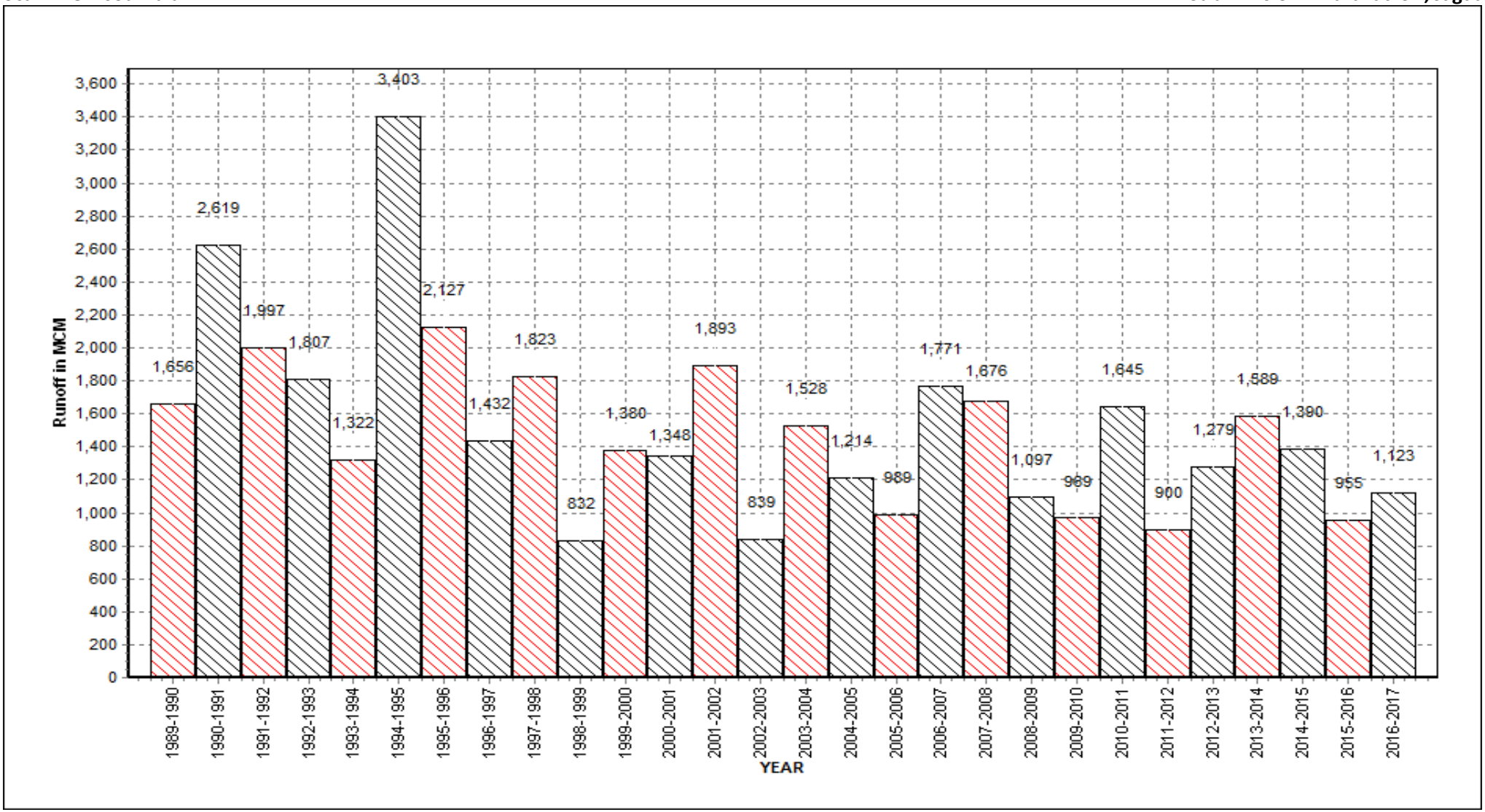
Local River : Journala | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1989 - 2017

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

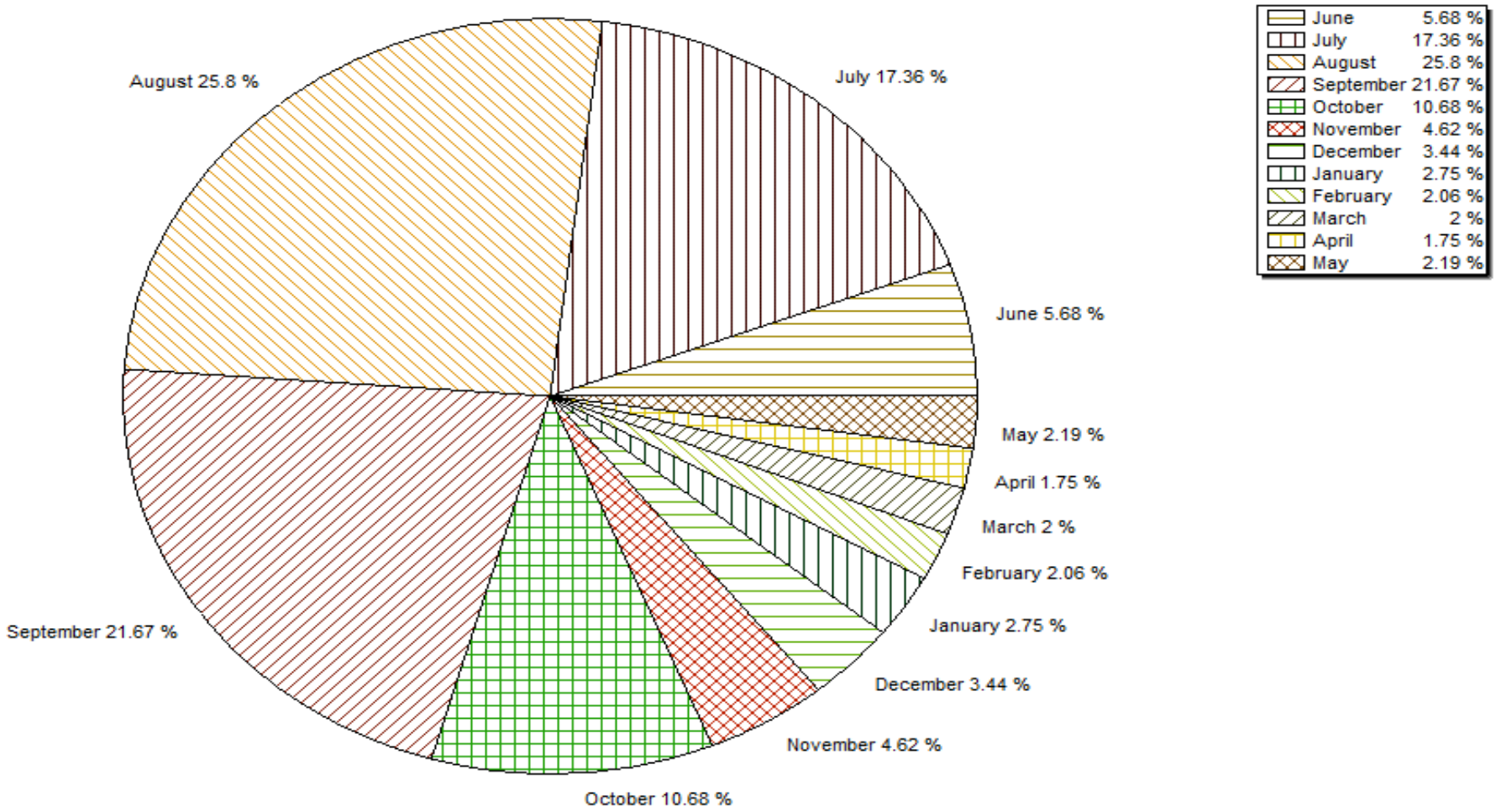
Monthly Average Runoff based on period : 1989-2016

Station Name : Murthahandi (AGC40E9)

Local River : Journala

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



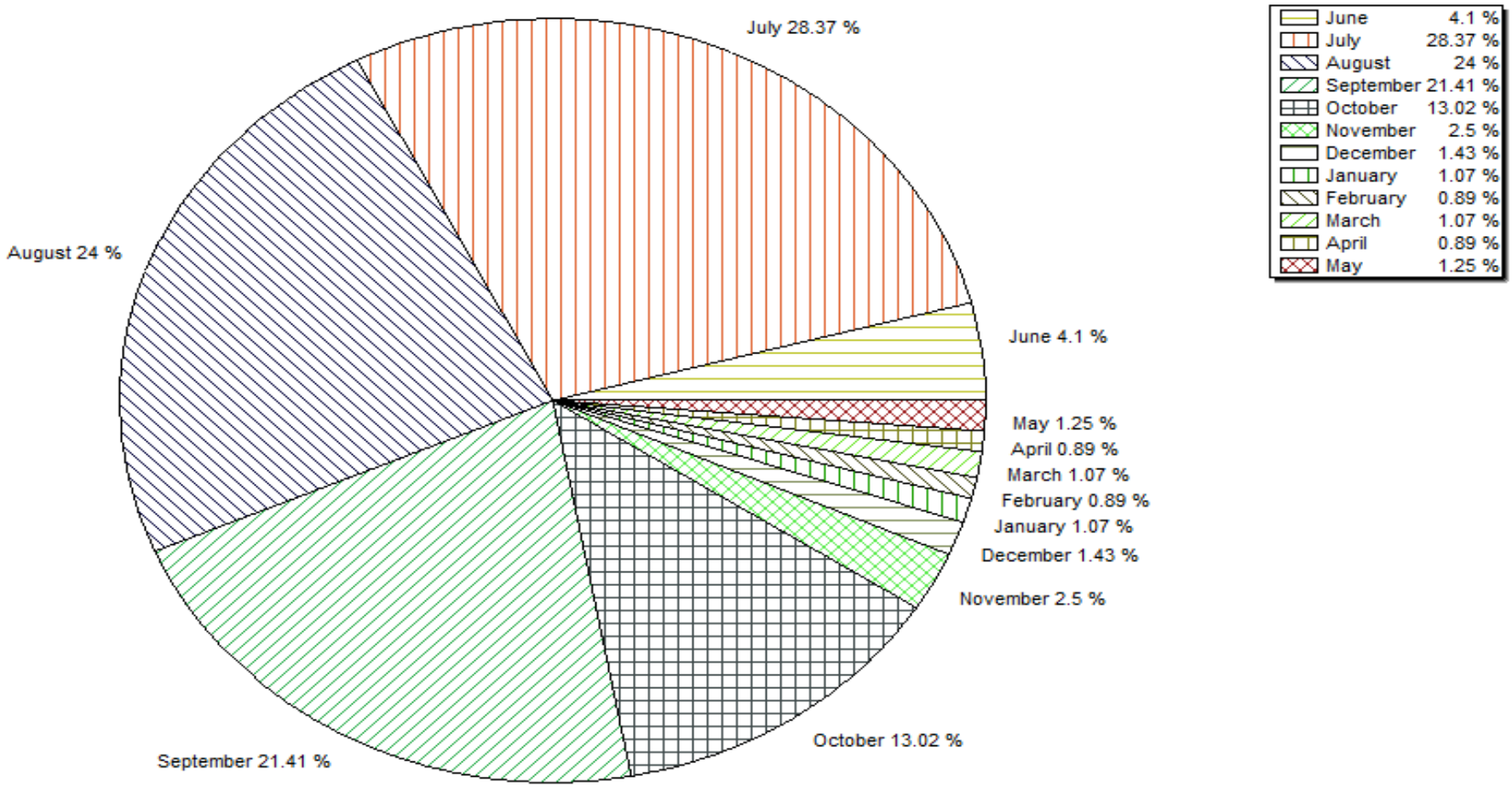
Monthly Runoff for the Year : 2016-2017

Station Name : Murthahandi (AGC40E9)

Local River : Journala

Division : Lower Godavari Div., Hyderabad

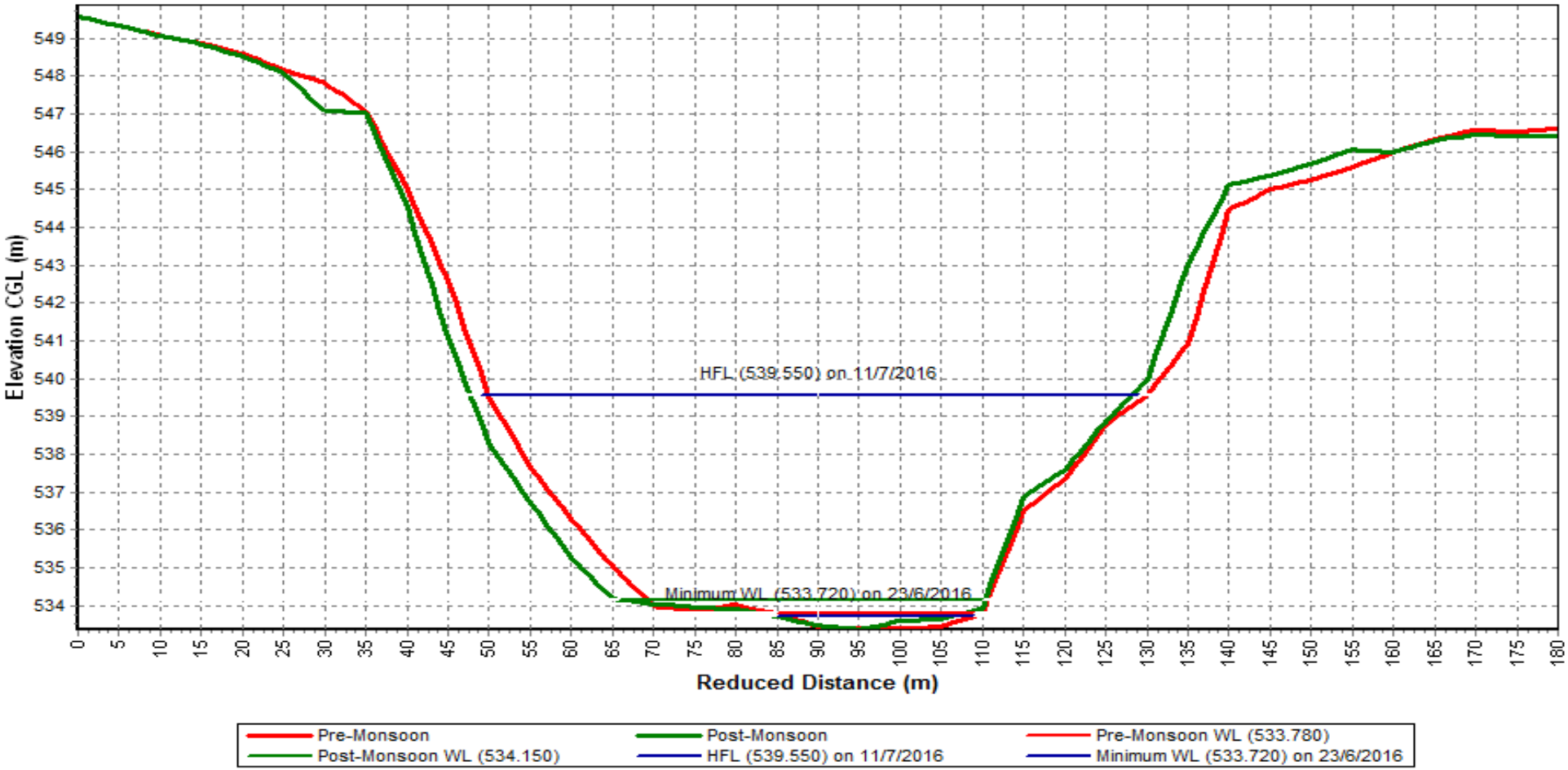
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

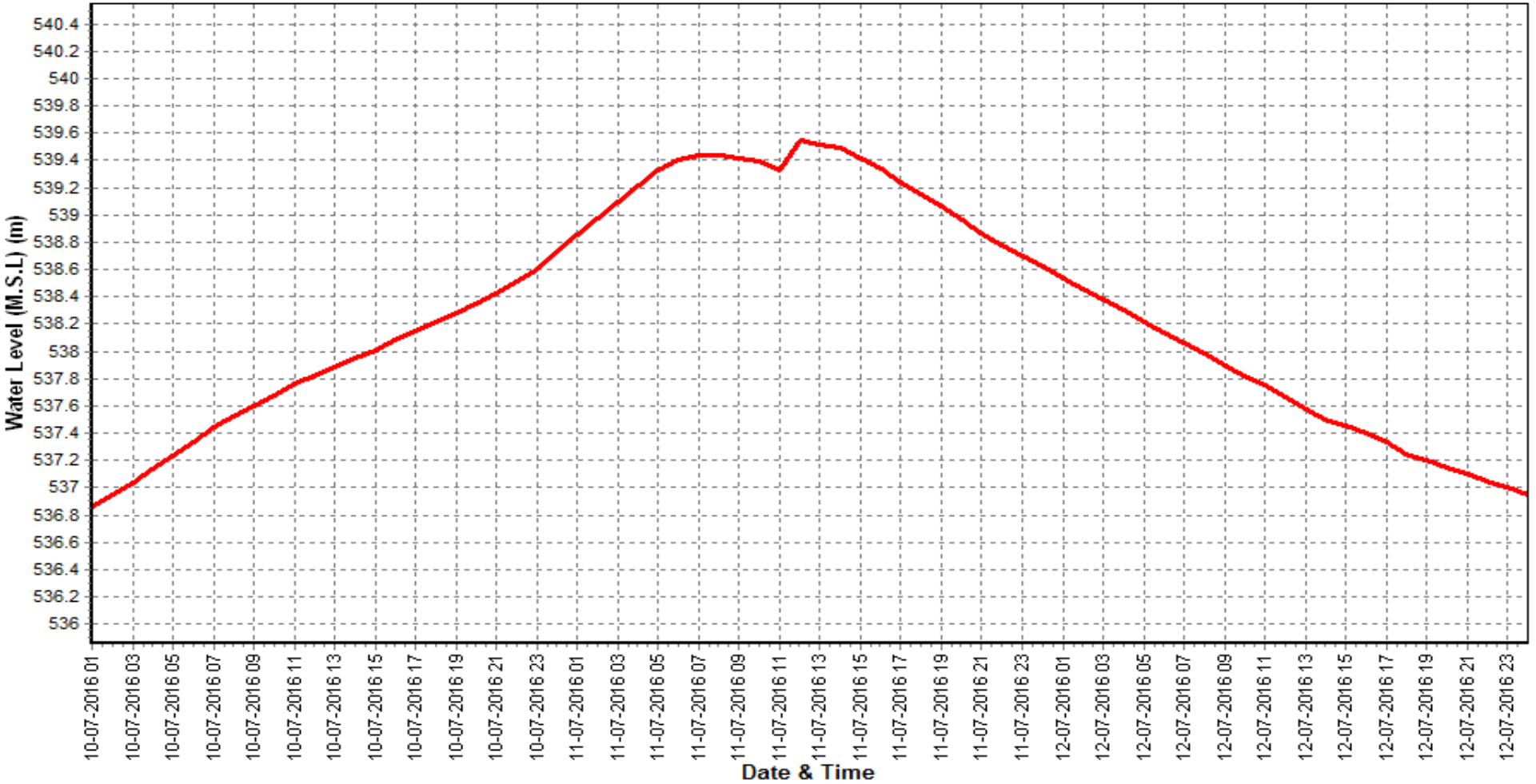
Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

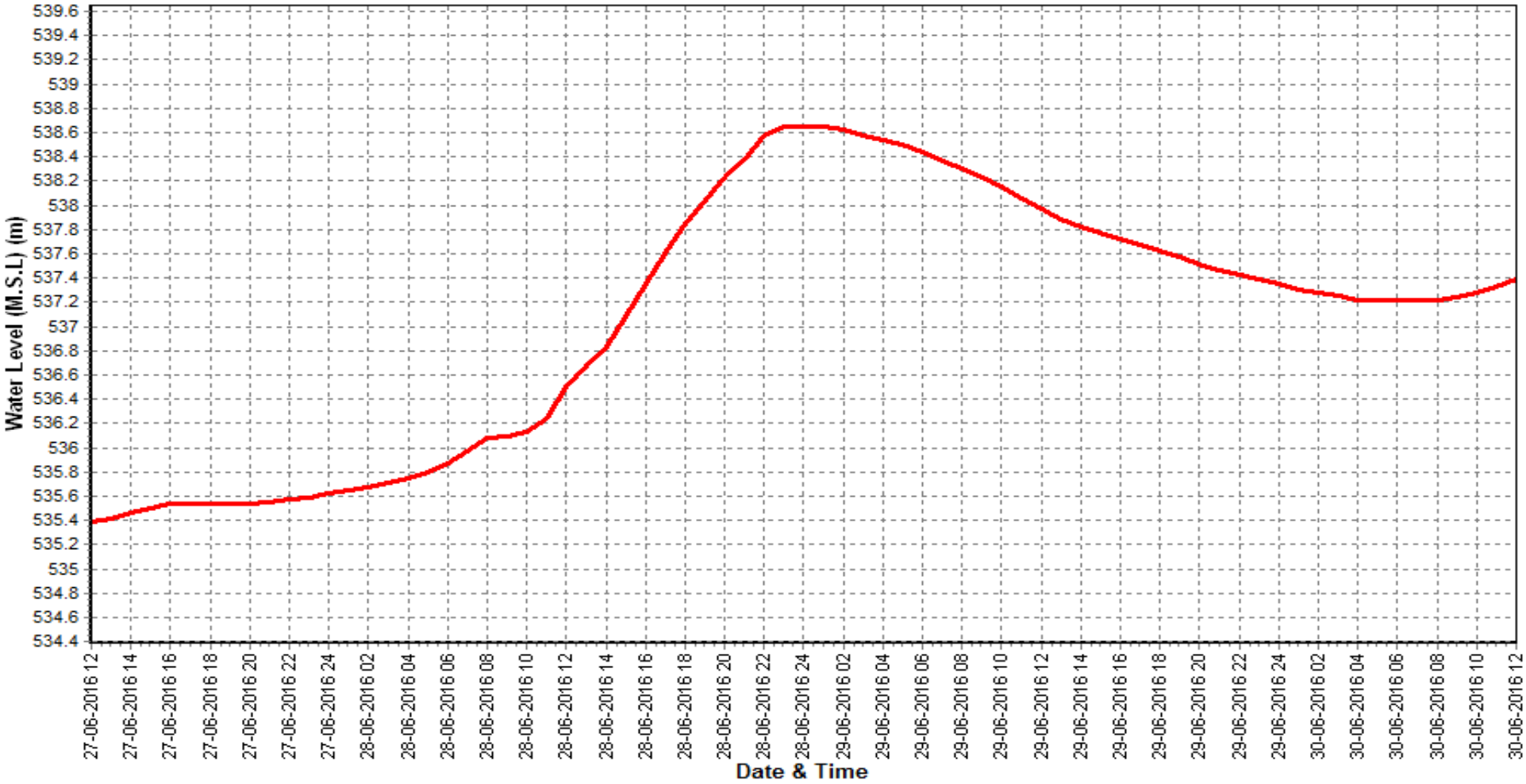


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**

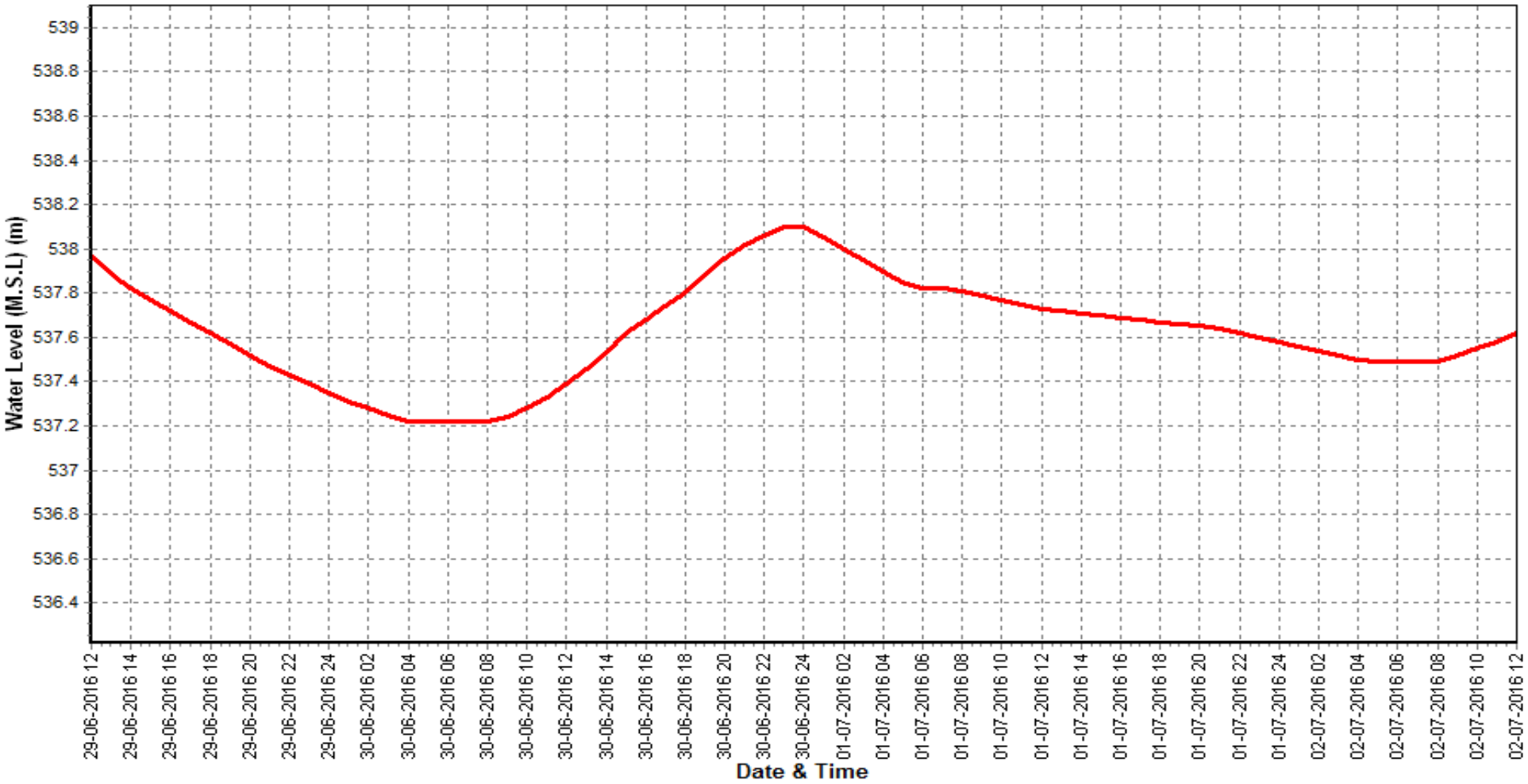


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Murthahandi (AGC40E9) **Division : Lower Godavari Div., Hyderabad**

Local River : Journala **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Nowrangpur**		**Code**	**: AGG00U7**	
State	: Orissa		District	Nowrangpur	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Indravathi		Sub Tributary	: -	
Sub-Sub Tributary	: -		Local River	: Indravathi	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Indravati SD, Jagdalpur	
Drainage Area	: 3545 Sq. Km.		Bank	:	
Latitude	: 19°12'00"		Longitude	: 82°31'00"	
Zero of Gauge (m)	: 550.716 (m.s.l) 549.745 (m.s.l)		24.06.1965 20.06.1971	- 20.06.1971 - 20.06.1971	
	Opening Date		Closing Date		
Gauge	: 24.06.1965		**HFL During 2016-17**	**: 553.205**	
			Corres.Discharge	**: 76.771 Cumecs(Estimated)**	
Discharge	: 20.06.1971		**Date& Time of Occurance**	**: 28.06.2016 : 13:00**	
Sediment	: 21.06.1971		31.05.2006		
Water Quality	: 01.01.1972		31.05.2006		

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	1516	559.536	04.09.1966	4.100	551.346	30.05.1967
1967-1968	1617	560.081	02.08.1967	3.700	551.334	06.06.1967
1968-1969	2088	559.526	13.09.1968	6.975	551.211	02.06.1968
1969-1970	2164	560.636	29.07.1969	8.300	551.326	02.06.1969
1970-1971	1615	558.846	27.08.1970	9.200	551.351	08.05.1971
1971-1972	1315	556.985	05.09.1971	6.500	550.365	24.05.1972
1972-1973	1806	557.480	12.09.1972	3.800	550.325	16.06.1972
1973-1974	2610	558.943	07.07.1973	7.200	550.485	01.06.1973
1974-1975	952.0	555.495	17.06.1974	5.100	550.065	15.05.1975
1975-1976	1147	555.965	09.09.1975	8.400	550.240	31.05.1976
1976-1977	2059	557.725	02.08.1976	7.700	550.220	04.06.1976
1977-1978	1958	558.275	13.09.1977	9.400	550.135	10.06.1977
1978-1979	2260	558.505	16.08.1978	7.500	550.330	10.06.1978
1979-1980	1935	557.755	25.06.1979	6.300	550.165	27.05.1980
1980-1981	1628	557.548	18.09.1980	8.339	550.195	24.05.1981
1981-1982	1710	557.615	09.08.1981	8.600	550.275	08.05.1982
1982-1983	1254	556.738	29.08.1982	6.200	550.195	09.06.1982
1983-1984	1203	556.330	26.06.1983	6.400	550.285	10.06.1983
1984-1985	2230	557.915	02.08.1984	6.925	550.185	05.05.1985
1985-1986	1377	556.825	17.08.1985	5.800	550.230	24.05.1986
1986-1987	1649	557.435	14.08.1986	5.388	550.235	14.06.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	1085	555.530	04.09.1987	5.630	550.285	14.05.1988
1988-1989	560.8	554.200	01.08.1988	4.839	550.230	02.05.1989
1989-1990	1015	555.745	28.08.1989	8.836	550.350	29.04.1990
1990-1991	1765	557.505	05.10.1990	6.022	550.395	19.05.1991
1991-1992	1832	557.645	30.07.1991	6.870	550.325	26.05.1992
1992-1993	2510	558.310	28.07.1992	8.129	550.245	06.05.1993
1993-1994	1240	556.505	02.08.1993	7.403	550.160	11.05.1994
1994-1995	2351	558.955	05.09.1994	13.45	550.355	08.06.1994
1995-1996	1557	557.685	01.09.1995	7.910	550.165	18.05.1996
1996-1997	614.9	554.995	21.07.1996	5.731	550.135	06.06.1996
1997-1998	742.6	554.985	29.08.1997	5.234	549.945	29.05.1998
1998-1999	686.2	554.990	11.07.1998	0.000	549.875	13.04.1999
1999-2000	634.7	554.945	18.06.1999	0.767	549.955	05.05.2000
2000-2001	1991	557.265	31.08.2000	0.264	550.045	02.04.2001
2001-2002	1507	557.085	08.07.2001	0.005	549.995	14.05.2002
2002-2003	584.1	554.785	23.06.2002	0.007	550.005	16.06.2002
2003-2004	1474	557.525	07.09.2003	0.872	550.135	27.06.2003
2004-2005	851.8	555.385	21.08.2004	2.027	550.085	30.03.2005
2005-2006	810.9	555.900	25.07.2005	1.798	550.035	02.05.2006
2006-2007	1300	556.845	30.09.2006	1.472	550.165	20.06.2006
2007-2008	936.9	555.885	29.06.2007	1.703	550.165	01.06.2007
2008-2009	571.1	555.345	10.08.2008	5.299	550.215	04.05.2009
2009-2010	486.2	554.075	20.07.2009	5.032	550.245	15.04.2010
2010-2011	1147	556.445	05.08.2010	5.766	550.295	04.06.2010
2011-2012	365.8	553.920	02.09.2011	0.701	549.925	07.04.2012
2012-2013	665.4	555.245	05.08.2012	0.000	549.995	08.05.2013
2013-2014	1143	557.085	14.06.2013	1.788	550.035	04.04.2014
2014-2015	908.1	555.505	21.09.2014	1.419	549.955	11.04.2015
2015-2016	1184	556.895	16.09.2015	1.249	550.025	18.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Nowrangpur (AGG00U7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	550.075	2.510	552.780	224.8	551.145	49.90	551.155	47.10	551.405	62.13	550.285	7.522
2	550.075	2.518	552.015	87.82	551.535	71.88	551.110	42.48	551.845	107.3 *	550.265	7.136
3	550.085	1.950	551.365	65.42 *	551.410	64.48	550.985	38.55	551.645	100.2	550.265	7.147
4	550.105	2.905	551.055	43.55 #	552.275	134.8	551.445	71.73 *	551.130	53.13	550.275	7.223
5	550.105	2.576 *	551.345	52.78	552.760	230.9	552.925	235.9 *	551.100	55.19	550.305	8.696
6	550.105	2.576	551.415	51.18	552.470	174.6	551.920	101.5	551.260	70.64	550.315	8.627 *
7	550.125	3.414	550.945	36.80 *	552.345	161.0 *	551.380	65.39	551.155	47.91	550.315	9.608
8	550.305	7.070	550.795	35.01	552.465	159.9	551.100	44.83	551.460	83.03	550.305	8.371
9	550.545	11.95	551.545	80.00 *	551.715	94.88	550.955	37.57	551.195	52.92 *	550.295	9.110
10	550.335	9.858	552.745	211.3 *	551.200	56.45	551.100	49.11	551.040	53.63	550.285	8.189
11	550.285	4.155	552.975	271.4	550.970	35.62	551.255	57.19 *	551.365	65.42 *	550.285	7.995
12	550.215	3.676 *	551.895	112.0	550.885	31.44	552.495	174.4	551.095	46.14 *	550.275	7.468 *
13	550.165	3.676	551.360	62.08	551.055	43.55 *	551.645	88.69 *	550.830	33.27	550.275	7.468 *
14	550.135	3.349	550.935	30.83	550.875	32.78 *	551.215	63.89	550.705	28.95	550.275	7.468 *
15	550.115	3.269	550.995	37.71	550.955	37.39 *	551.235	55.27	550.625	25.53	550.275	8.456
16	550.105	2.678	550.915	32.88	551.515	89.87	551.040	48.59	550.545	16.79 *	550.275	8.262
17	550.105	3.038	551.085	45.49 *	551.590	99.99	550.890	33.58	550.535	18.33	550.265	8.433
18	550.125	2.928	550.815	24.88	551.305	61.55	550.785	27.93 *	550.495	16.85	550.265	8.389
19	550.135	3.779 *	551.305	57.61	551.050	36.07	551.210	48.14	550.470	13.27	550.265	8.177
20	550.145	3.779	551.560	57.79	550.880	31.80	551.385	64.47	550.470	15.18	550.265	7.489 *
21	550.225	5.933	551.535	79.56	550.785	27.93 *	551.170	51.32	550.455	14.75	550.265	7.489
22	550.275	6.894	551.455	66.26	550.705	23.75	550.940	44.68	550.445	14.85	550.255	7.469
23	550.205	4.303	551.190	51.15	550.665	26.29	550.800	25.37	550.435	12.57 *	550.255	7.059
24	550.310	8.408	551.155	50.16 *	550.645	20.51	550.790	28.19 #	550.410	13.47	550.245	6.946
25	550.905	31.44	551.400	65.21	550.625	17.43	550.745	25.89 *	550.385	12.63	550.245	7.359
26	550.575	18.03 *	551.050	56.32	550.645	18.17	550.710	27.70	550.385	12.68	550.245	7.374
27	550.615	28.03	550.910	34.87	552.120	166.0	550.660	24.74	550.375	12.06	550.235	6.900 *
28	552.390	117.7	550.780	31.43	551.865	109.3 *	550.680	22.73 #	550.330	9.604	550.225	6.900
29	552.145	120.5	550.670	20.00	551.320	63.39	550.825	34.44	550.395	12.68	550.225	7.148
30	552.720	220.8	550.890	34.12	550.985	42.81	551.115	43.14	550.385	10.84 *	550.215	6.548
31			550.755	26.39 *	550.920	35.34			550.295	8.774		
Ten-Daily Mean												
I Ten-Daily	550.186	4.733	551.601	88.87	551.932	119.9	551.408	73.42	551.323	68.61	550.291	8.163
II Ten-Daily	550.153	3.433	551.384	73.26	551.108	50.01	551.316	66.21	550.714	27.97	550.272	7.960
III Ten-Daily	551.036	56.20	551.072	46.86	551.025	50.08	550.843	32.82	550.390	12.27	550.241	7.119
Monthly												
Min.	550.075	1.950	550.670	20.00	550.625	17.43	550.660	22.73	550.295	8.774	550.215	6.548
Max.	552.720	220.8	552.975	271.4	552.760	230.9	552.925	235.9	551.845	107.3	550.315	9.608
Mean	550.458	21.46	551.343	68.93	551.344	72.57	551.189	57.48	550.796	35.51	550.268	7.747

Annual Runoff in MCM = 746 Annual Runoff in mm = 211

Peak Observed Discharge = 271.4 cumecs on 11-07-2016 Corres. Water Level :552.975 m

Lowest Observed Discharge = 1.168 cumecs on 28-04-2017 Corres. Water Level :549.975 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Nowrangpur (AGG00U7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	550.215	6.484	550.125	4.008 *	550.095	3.283	550.015	2.455	549.995	1.598	550.105	3.425 *
2	550.205	6.497	550.125	4.008	550.085	3.157	550.025	2.212	549.985	1.467 *	550.105	1.819
3	550.205	6.387	550.115	4.326	550.085	3.122	550.015	2.061	549.995	1.600	550.005	1.976
4	550.195	6.202 *	550.115	4.406	550.085	3.059	550.015	2.126	549.995	1.547	549.965	1.373
5	550.195	6.202	550.115	4.394	550.085	3.046 *	550.015	1.884 *	549.995	1.601 *	550.005	1.407
6	550.185	6.084	550.115	4.221	550.085	2.884	550.015	2.060	550.025	1.782	549.995	1.470
7	550.185	6.185	550.115	4.295	550.075	2.969	550.025	1.902	550.015	1.884 *	550.045	2.350 *
8	550.185	6.075	550.115	4.248 *	550.075	2.748	550.025	2.288	549.995	1.601 *	550.095	2.559
9	550.175	5.573	550.115	4.248	550.075	2.859	550.010	1.811 #	549.995	1.539	550.125	2.281
10	550.175	6.216 *	550.115	4.389	550.075	3.267	550.015	1.884 #	549.995	1.454	550.105	3.425 *
11	550.165	6.216 *	550.115	4.084	550.075	2.858	550.045	2.350 *	549.995	1.504	550.195	4.338
12	550.185	6.216 *	550.115	4.223	550.065	2.688 *	550.055	2.516 *	549.995	1.523	550.095	2.605
13	550.195	6.216	550.115	4.334	550.065	2.844	550.035	2.304	549.995	1.601 *	550.105	2.121 *
14	550.195	6.046	550.115	4.041 *	550.065	2.467	550.035	2.304	549.995	1.616	550.125	2.121 *
15	550.195	5.812	550.115	4.041 *	550.065	2.550	550.035	2.292	549.995	1.601 *	550.095	2.121
16	550.195	6.135	550.115	4.041	550.065	2.767	550.055	2.964	549.985	1.653	550.084	2.373
17	550.185	5.501	550.115	4.132	550.065	2.843	550.015	1.884 #	549.985	1.737	550.075	2.066
18	550.165	4.685 *	550.105	3.874	550.065	2.894	550.035	2.329	549.985	1.545	550.075	2.204
19	550.165	4.908	550.105	3.790	550.065	2.688 *	550.025	2.034 *	550.035	1.942	550.065	2.188
20	550.145	4.837	550.105	3.875	550.055	2.420	550.005	1.761	550.005	1.801	550.065	2.066
21	550.145	4.850	550.105	3.931	550.055	2.491	550.005	1.882	550.085	2.652	550.065	2.206 *
22	550.295	8.308	550.105	3.425 *	550.045	2.020	549.995	1.752	550.045	2.350 *	550.065	2.206
23	550.225	5.761	550.105	3.874	550.035	2.045	549.995	1.704	550.025	1.820	550.055	1.845
24	550.175	5.265	550.095	3.438	550.035	2.021	549.995	1.863	550.015	1.812	550.075	2.594
25	550.155	4.463 *	550.095	3.483	550.025	1.752	549.995	1.915	550.005	1.637	550.055	2.048
26	550.145	4.431	550.095	3.233 *	550.025	2.034 *	549.985	1.467 *	550.005	1.734	550.065	1.806
27	550.135	4.115	550.065	2.855	550.015	2.373	549.985	1.889	549.995	1.622	550.105	2.282
28	550.135	4.048	550.105	3.364	550.015	2.247	549.985	1.853	549.975	1.168	550.095	2.368 *
29	550.135	4.164	550.105	3.425 *			549.985	1.467 *	549.975	1.339 *	550.085	2.368
30	550.135	4.082	550.095	3.227			549.985	1.597	549.975	1.339 *	550.085	2.855
31	550.125	4.320	550.095	3.481			549.985	1.589			550.105	2.218
Ten-Daily M												
I Ten-Daily	550.192	6.191	550.117	4.254	550.082	3.039	550.017	2.068	549.999	1.607	550.055	2.209
II Ten-Daily	550.179	5.657	550.112	4.044	550.065	2.702	550.034	2.274	549.997	1.652	550.098	2.420
III Ten-Daily	550.164	4.892	550.097	3.430	550.031	2.123	549.990	1.725	550.010	1.747	550.078	2.254
Monthly												
Min.	550.125	4.048	550.065	2.855	550.015	1.752	549.985	1.467	549.975	1.168	549.965	1.373
Max.	550.295	8.308	550.125	4.406	550.095	3.283	550.055	2.964	550.085	2.652	550.195	4.338
Mean	550.178	5.558	550.108	3.894	550.061	2.657	550.013	2.013	550.002	1.669	550.077	2.293

Peak Computed Discharge = 235.9 cumecs on 05-09-2016 Corres. Water Level :552.925 m

Lowest Computed Discharge = 1.339 cumecs on 29-04-2017 Corres. Water Level :549.975 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

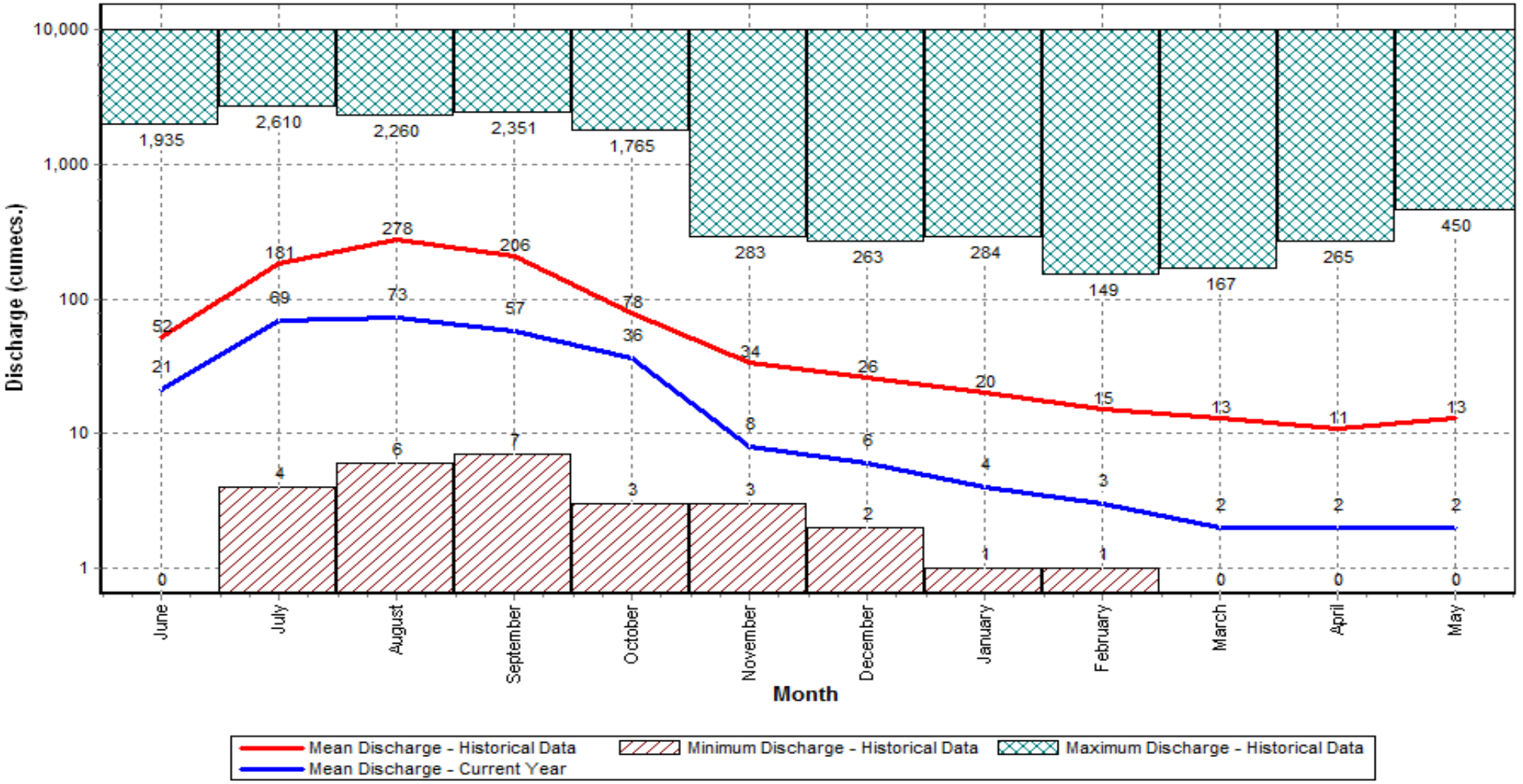
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Nowrangpur (AGG00U7) | **Data considered : 1966-2017** | **Division : Lower Godavari Div., Hyderabad**

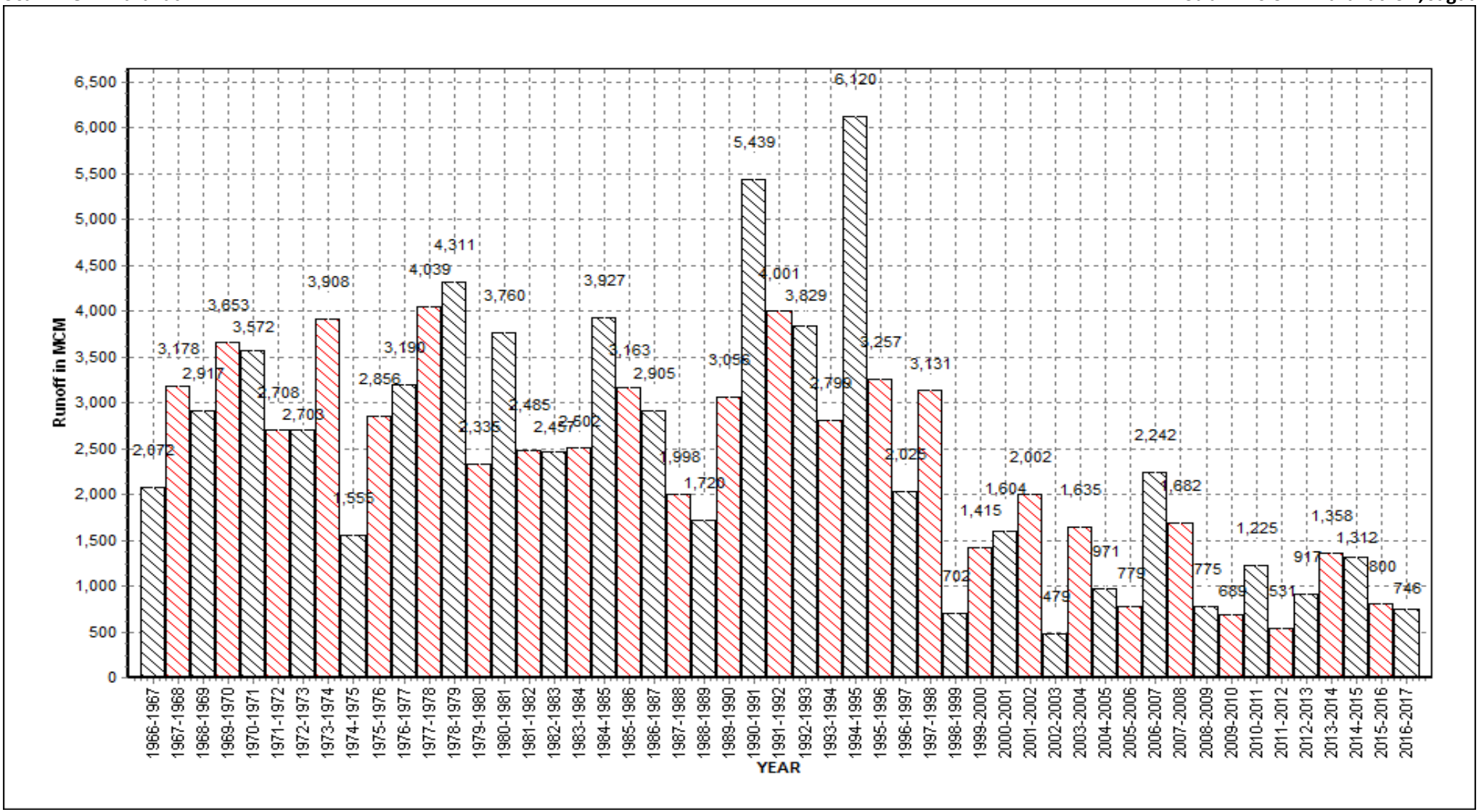
Local River : Indravathi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 1966 - 2017

Station Name : Nowrangpur (AGG00U7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Note: Missing values have not been considered while arriving at Annual Runoff

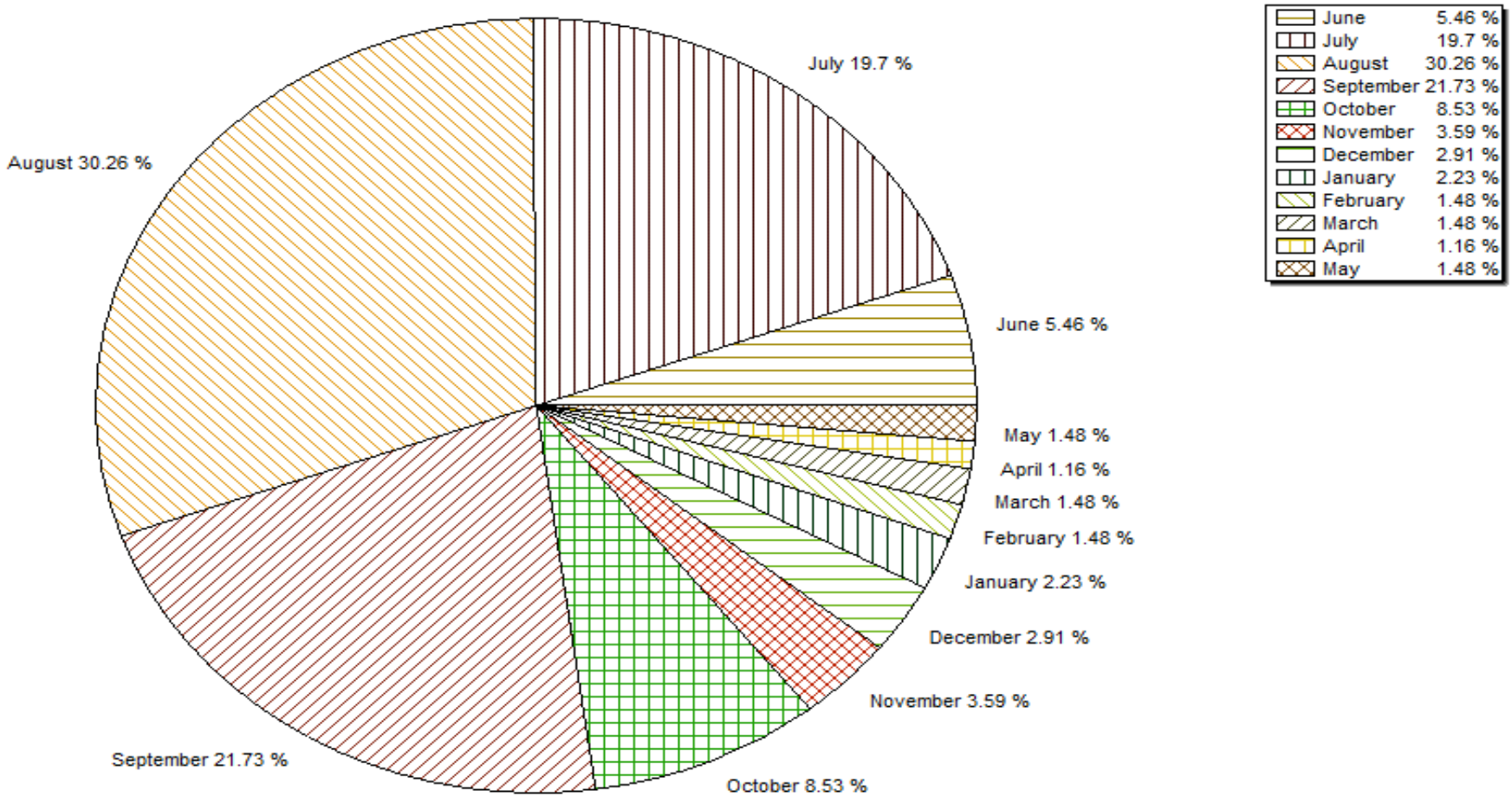
Monthly Average Runoff based on period : 1966-2016

Station Name : Nowrangpur (AGG00U7)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

Sub-Division : Indravati SD, Jagdalpur



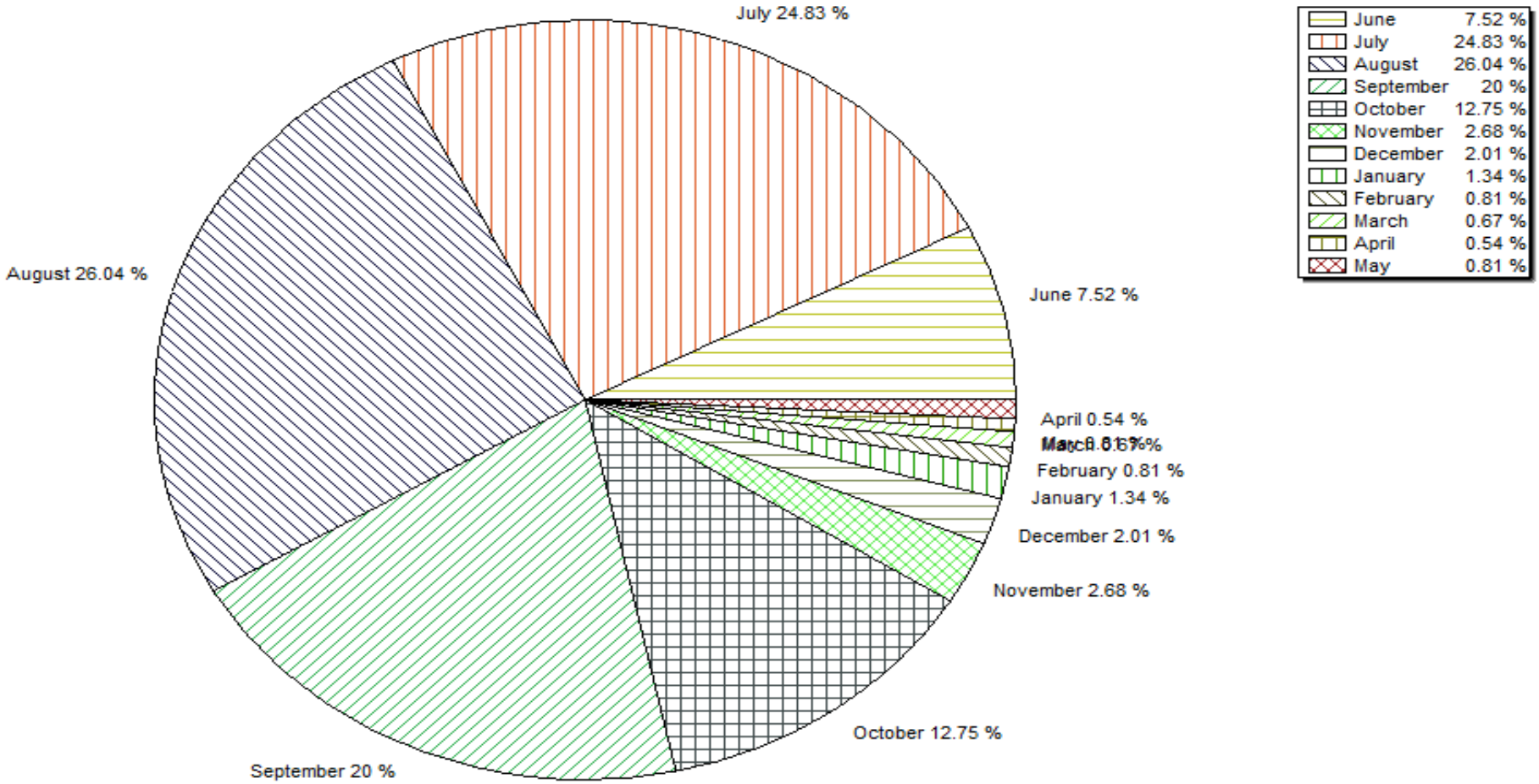
Monthly Runoff for the Year : 2016-2017

Station Name : Nowrangpur (AGG00U7)

Local River : Indravathi

Division : Lower Godavari Div., Hyderabad

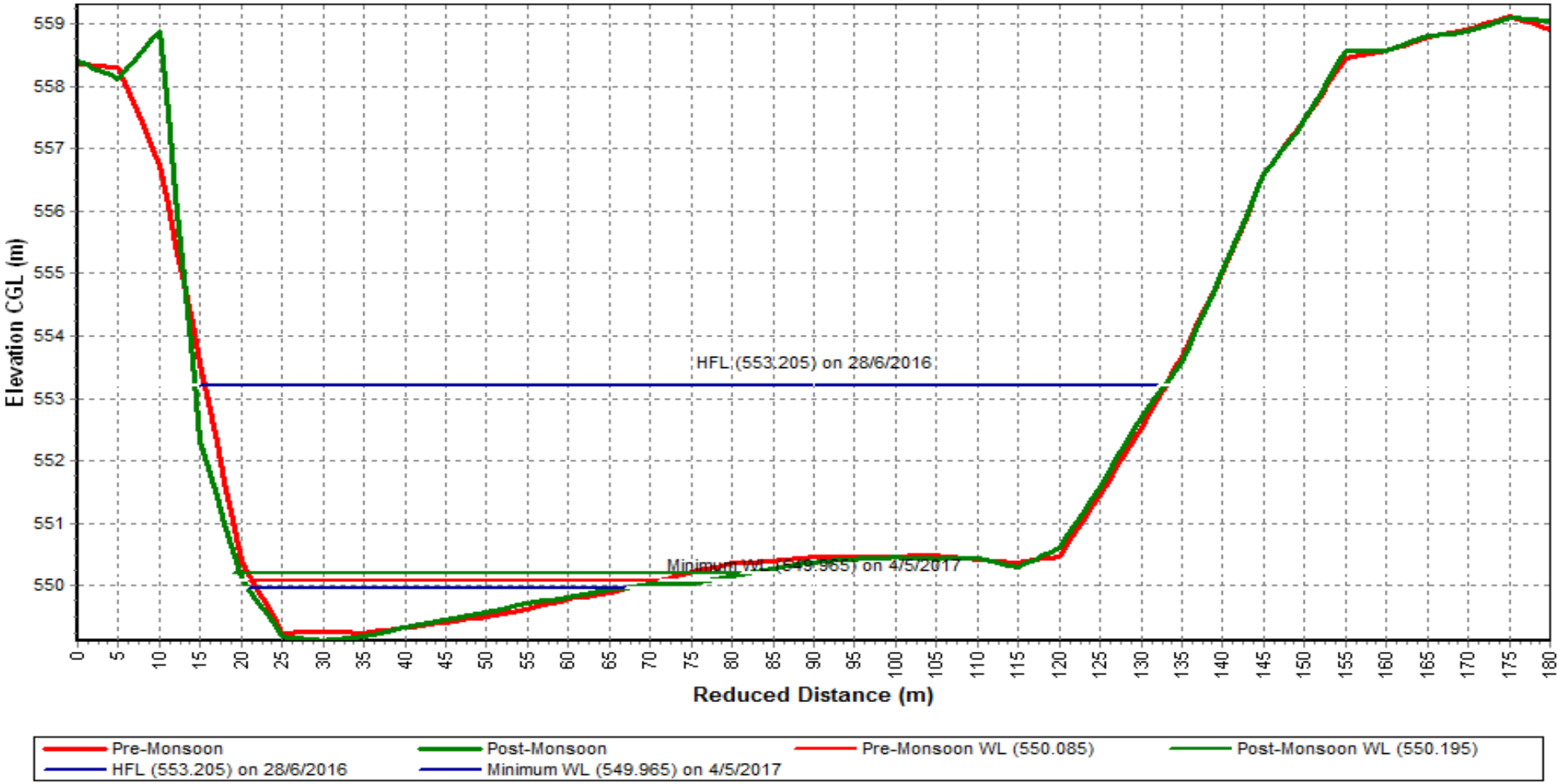
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Nowrangpur (AGG00U7) **Division : Lower Godavari Div., Hyderabad**

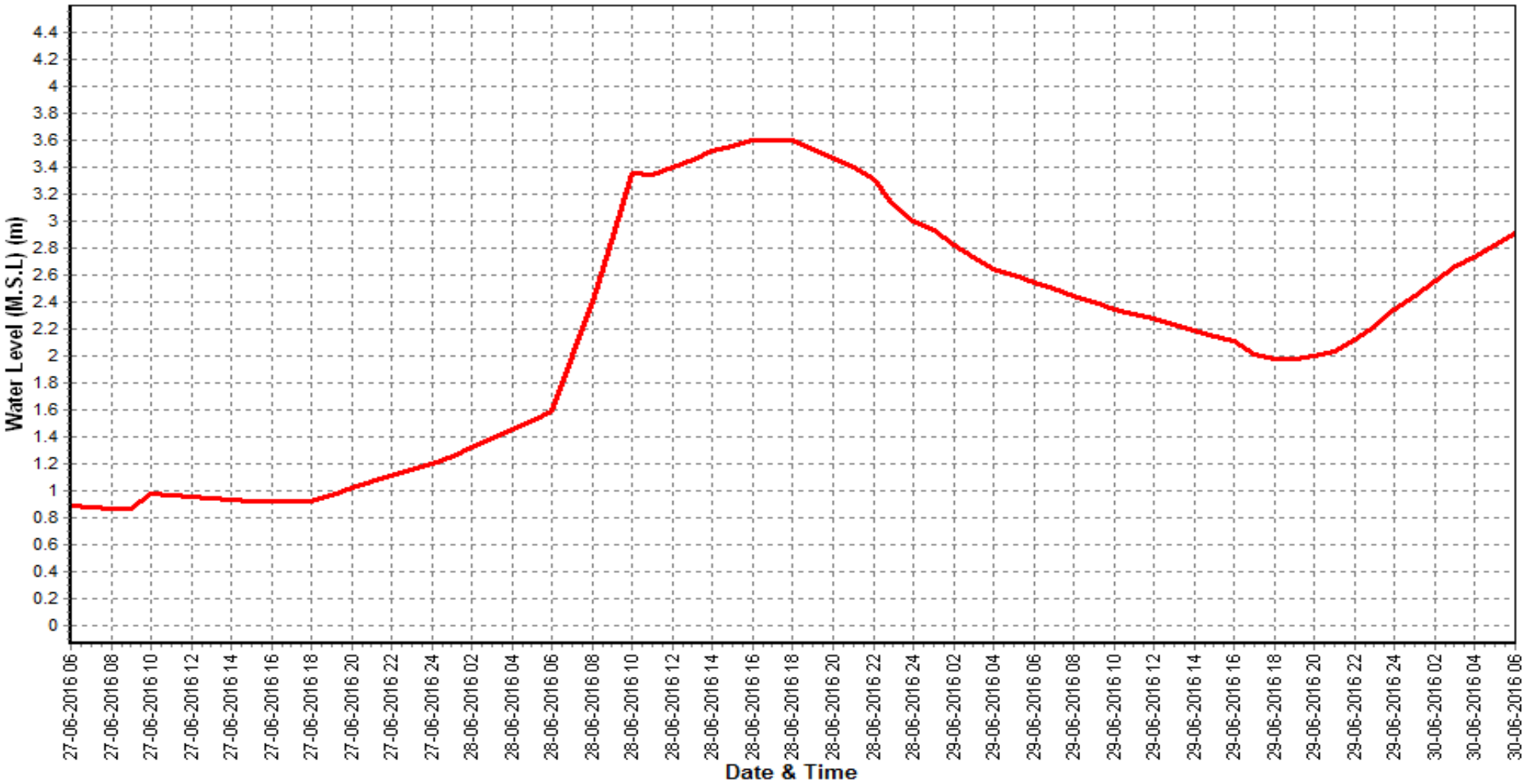
Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Nowrangpur (AGG00U7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

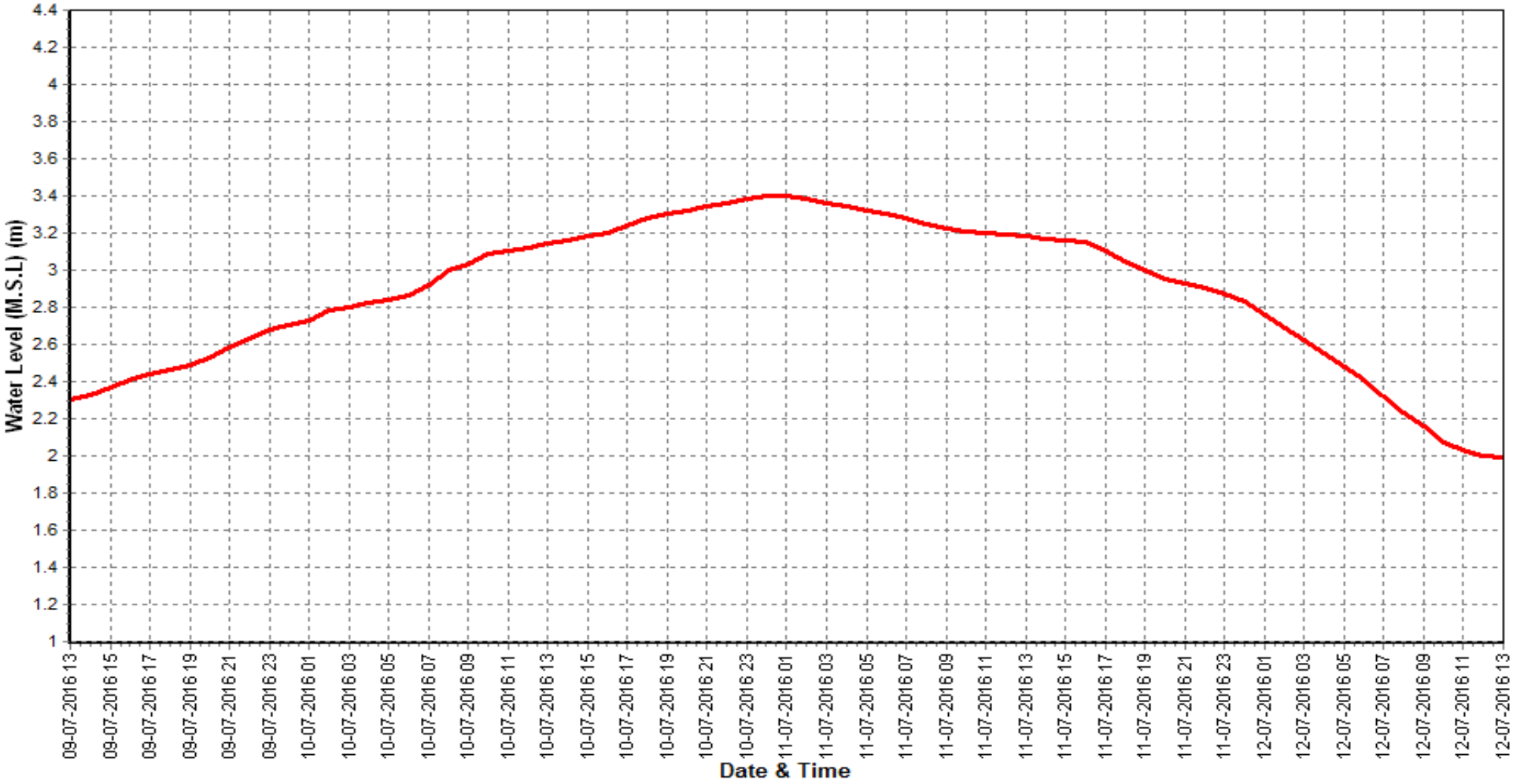


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Nowrangpur (AGG00U7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**

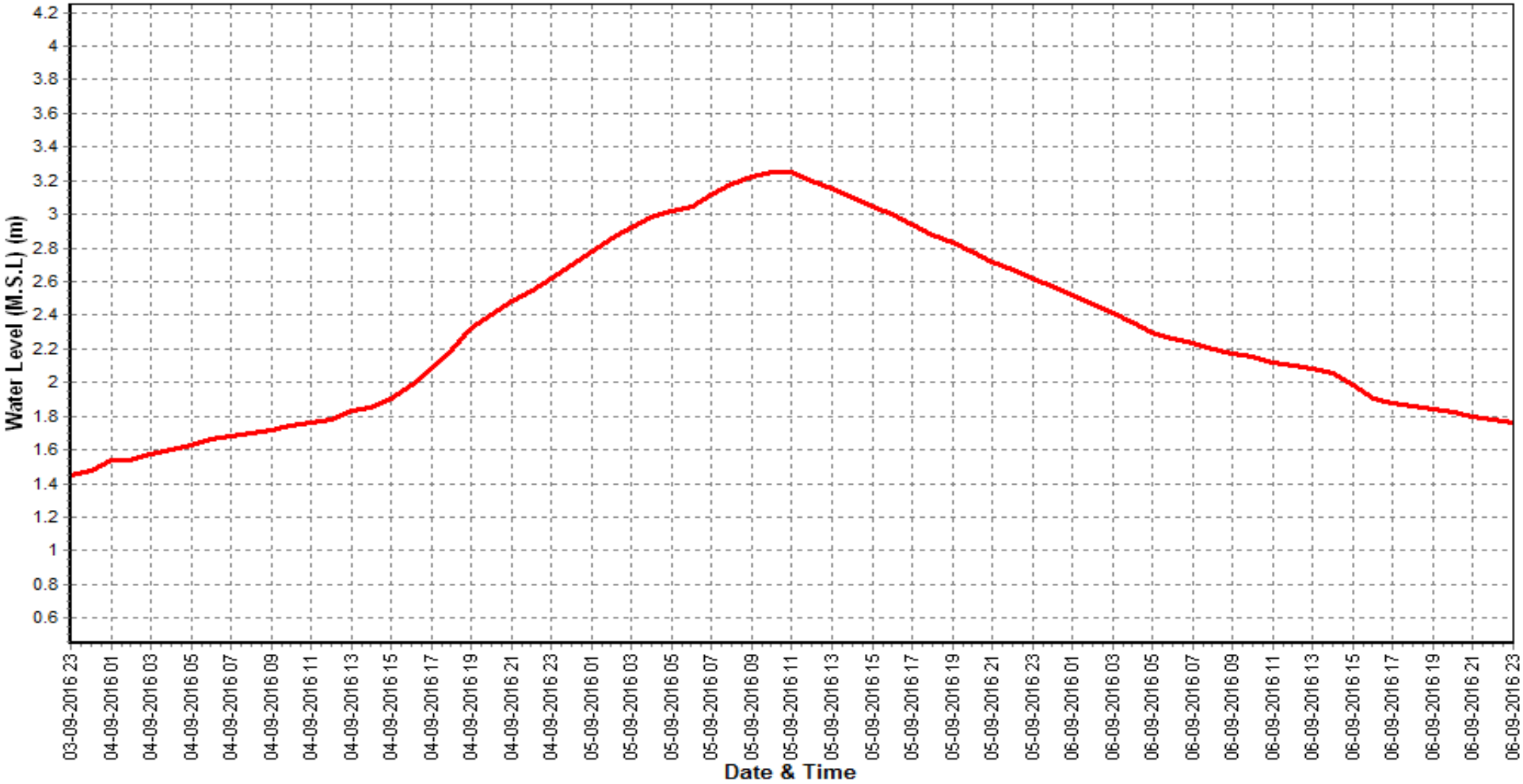


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Nowrangpur (AGG00U7) **Division : Lower Godavari Div., Hyderabad**

Local River : Indravathi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Somanpally (Seasonal)**		**Code**	**: AGI00C3**	
State	: Telangana		District	Karimnagar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Maner		Sub Tributary	: -	
Sub-Sub Tributary	: -		Local River	: Maner	
Division	: Lower Godavari Div., Hyderabad		Sub-Division	: Lower Godavari 1, Bhadrachalam	
Drainage Area	: 12691 Sq. Km.		Bank	: Left	
Latitude	: 18°37'12"		Longitude	: 79°48'12"	
Zero of Gauge (m)	: 117.975 (m.s.l) 121.444 (m.s.l) 121 (m.s.l)		21.11.1965 01.06.1968 01.06.1997	- 31.05.1968 - 31.05.1997	
	Opening Date		Closing Date		
Gauge	: 01.07.1964		**HFL During 2016-17**	**: 124.44**	
			Corres.Discharge	**: 842.122 Cumecs(Estimated)**	
Discharge	: 17.03.1967		**Date& Time of Occurance**	**: 25.09.2016 : 01:00**	
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1967-1968	752.4	121.565	30.08.1967	0.068	118.340	11.06.1967
1968-1969	387.5	123.761	27.07.1968	0.020	121.789	19.06.1968
1969-1970	1693	125.184	21.09.1969	0.020	121.969	19.06.1969
1970-1971	1238	124.749	19.08.1970	0.177	121.919	09.05.1971
1971-1972	390.7	123.804	22.10.1971	0.040	121.874	27.05.1972
1972-1973	327.2	123.649	06.07.1972	0.011	121.959	27.05.1973
1973-1974	2254	125.519	04.10.1973	0.100	121.974	15.06.1973
1974-1975	623.1	124.004	24.10.1974	0.083	121.889	18.05.1975
1975-1976	1137	124.769	11.09.1975	0.049	121.894	01.06.1975
1976-1977	3457	126.339	21.07.1976	0.046	122.019	20.06.1976
1977-1978	807.3	124.329	02.09.1977	0.070	121.984	25.05.1978
1978-1979	4487	126.594	15.08.1978	0.070	121.984	02.06.1978
1979-1980	745.1	124.254	04.08.1979	0.090	121.979	07.05.1980
1980-1981	556.6	123.989	21.08.1980	0.047	122.024	20.03.1981
1981-1982	1965	125.254	05.08.1981	0.004	121.944	16.05.1982
1982-1983	225.2	123.424	20.07.1982	0.102	121.914	19.06.1982
1983-1984	6359	127.294	06.10.1983	0.100	122.049	15.06.1983
1984-1985	274.9	123.229	01.08.1984	0.200	121.314	30.05.1985
1985-1986	181.0	122.964	02.08.1985	0.000	121.339	01.04.1986
1986-1987	3086	126.614	14.08.1986	0.036	121.384	07.07.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	1190	125.109	09.07.1987	0.063	121.504	08.06.1987
1988-1989	2504	125.594	03.09.1988	0.310	121.574	31.05.1989
1989-1990	3360	127.344	24.07.1989	0.114	121.574	04.06.1989
1990-1991	2336	126.144	31.08.1990	4.386	121.904	14.05.1991
1991-1992	449.2	123.794	13.07.1991	0.031	121.594	06.04.1992
1992-1993	414.3	123.404	16.08.1992	0.047	121.574	01.06.1992
1993-1994	1042	124.794	29.07.1993	0.007	121.484	20.05.1994
1994-1995	595.1	124.074	23.08.1994	0.011	121.494	01.06.1994
1995-1996	2536	126.324	20.10.1995	0.067	121.524	11.06.1995
1996-1997	878.7	124.554	26.08.1996	0.470	121.974	03.06.1996
1997-1998	163.0	122.680	31.10.1997	0.039	121.390	27.01.1998
1998-1999	840.6	124.180	16.10.1998	0.047	121.390	11.06.1998
1999-2000	782.2	124.020	12.09.1999	0.033	121.260	18.04.2000
2000-2001	2377	126.000	28.08.2000	0.084	121.630	27.05.2001
2001-2002	362.8	123.250	22.08.2001	0.031	121.560	26.04.2002
2002-2003	821.0	124.160	25.08.2002	0.000		22.04.2003
2003-2004	244.7	122.990	25.10.2003	0.000		12.05.2004
2004-2005	25.79	122.020	06.08.2004	0.000		25.01.2005
2005-2006	1645	125.150	22.09.2005	0.000		21.02.2006
2006-2007	3336	126.610	05.08.2006	0.000	121.525	24.07.2006
2007-2008	952.8	124.390	18.09.2007	0.373	121.590	06.06.2007
2008-2009	1490	124.980	11.08.2008	0.000		10.03.2009
2009-2010	530.7	123.770	03.09.2009	0.000	121.470	25.07.2009
2010-2011	2884	126.300	30.07.2010	0.000		29.04.2011
2011-2012	171.3	122.920	18.09.2011	0.000	121.425	08.01.2012
2012-2013	1059	124.550	05.09.2012	0.000		17.05.2013
2013-2014	2803	125.940	27.10.2013	0.000	121.510	26.03.2014
2014-2015	431.4	123.400	08.09.2014	0.000	121.400	15.08.2014
2015-2016	477.6	123.710	22.06.2015	0.000	121.000	05.06.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	121.000	0.000	122.360	80.65 *	122.070	43.33	121.800	15.75	122.470	100.5 *	121.680	10.87
2	121.000	0.000	121.965	22.48	122.020	25.55	121.960	25.11	123.250	306.9 *	121.680	10.44
3	121.000	0.000	121.910	22.99 *	122.010	24.22	121.980	27.64	123.200	290.2 *	121.680	11.05
4	121.000	0.000	121.985	23.99	122.590	124.8 *	121.950	26.57 *	123.170	280.4 *	121.670	11.47
5	121.000	0.000	121.915	16.96	122.670	142.5 *	121.840	17.44 *	123.160	277.2 *	121.660	10.90
6	121.000	0.000	121.830	13.65	122.420	91.22 *	121.780	15.41	123.080	252.1 *	121.650	11.10
7	121.000	0.000	121.750	11.66 *	122.290	69.18 *	121.730	14.25	123.040	240.1 *	121.650	9.896 *
8	121.000	0.000	121.760	7.124	122.090	43.13	121.640	6.751	123.390	356.0 *	121.640	9.895
9	121.000	0.000	121.720	10.08 *	121.990	26.45	121.610	5.127	123.800	521.1 *	121.640	8.949
10	121.000	0.000	121.850	18.18 *	121.880	18.71	121.640	6.671 *	123.880	557.1 *	121.580	7.946
11	121.000	0.000	122.260	64.55 *	121.860	17.17	122.000	31.47 *	123.620	444.8 *	121.640	10.32
12	121.000	0.000	122.330	75.63 *	121.710	5.419	122.430	93.05 *	123.400	359.7 *	121.640	8.113 *
13	121.000	0.000	122.290	69.18 *	121.680	8.223 *	122.320	73.99 *	123.230	300.1 *	121.600	8.110 *
14	121.000	0.000	122.135	41.72	121.660	7.409 *	122.195	50.37	122.940	211.2 *	121.590	8.109 *
15	121.000	0.000	121.990	27.76	121.640	6.671 *	122.070	38.17	122.930	208.4 *	121.580	8.109
16	121.000	0.000	122.110	44.46	121.690	4.633	122.740	159.0 *	122.910	202.9 *	121.570	6.908
17	121.000	0.000	122.050	36.85 *	121.660	3.720	122.620	131.3 *	122.530	112.4 *	121.560	6.692
18	121.000	0.000	121.970	26.64	121.640	3.235	122.340	77.28 *	122.120	45.16 *	121.560	6.641
19	121.000	0.000	121.815	11.61	121.580	2.546	122.140	51.04	122.040	40.13	121.520	4.950
20	121.000	0.000	121.760	9.206	121.560	2.033	122.090	47.45	121.920	30.52	121.500	3.727 *
21	121.000	0.000	121.750	8.717	121.520	3.820 *	122.050	38.73	121.900	28.72	121.490	3.727
22	121.000	0.000	121.790	10.71	121.510	1.090	122.250	79.68	121.840	20.56	121.490	3.427
23	121.000	0.000	121.960	26.24	121.490	0.872	122.680	144.8 *	121.810	15.35 *	121.450	3.385
24	121.000	0.000	122.090	41.48 *	121.500	0.929	123.540	412.8 *	121.790	17.93	121.460	3.376
25	121.000	0.000	122.040	26.77	121.510	1.120	124.030	627.6 *	121.770	16.91	121.400	3.313
26	121.000	0.000	122.085	31.08	122.060	38.94	123.500	397.2 *	121.750	13.92	121.390	2.978
27	121.000	0.000	122.600	127.0 *	121.980	29.97	123.340	338.0 *	121.730	12.52	121.350	0.734 *
28	121.000	0.000	122.760	163.9 *	121.870	19.71 *	123.130	267.7 *	121.710	11.56	121.300	0.734
29	121.500	0.317	122.390	85.85 *	121.955	25.68	123.100	258.3 *	121.700	11.58	121.290	0.734 *
30	121.490	0.313	122.140	48.34	121.920	23.19	122.740	159.0 *	121.680	8.223 *	121.260	0.734 *
31			122.150	49.00 *	121.790	16.34			121.690	11.85		
-Daily Mean												
Ten-Dai	121.000	0.000	121.904	22.78	122.203	60.92	121.793	16.07	123.244	318.2	121.653	10.25
Ten-Dai	121.000	0.000	122.071	40.76	121.668	6.106	122.294	75.32	122.764	195.5	121.576	7.167
Ten-Da	121.099	0.063	122.160	56.28	121.737	14.69	123.036	272.4	121.761	15.38	121.388	2.314
Monthly												
Min.	121.000	0.000	121.720	7.124	121.490	0.872	121.610	5.127	121.680	8.223	121.260	0.734
Max.	121.500	0.317	122.760	163.9	122.670	142.5	124.030	627.6	123.880	557.1	121.680	11.47
Mean	121.033	0.021	122.049	40.47	121.865	26.83	122.374	121.3	122.563	171.2	121.539	6.578

Annual Runoff in MCM = 970 Annual Runoff in mm = 76

Peak Observed Discharge = 79.68 cumecs on 22-09-2016 Corres. Water Level :122.25 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016 Corres. Water Level :121 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1												
2												
3												
4												
5												
6												
7												
8												
9												
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26												
27												
28												
29												
30												
31												
-Daily M												
Ten-Dai												
Ten-Dai												
Ten-Da												
Monthly												
Min.												
Max.												
Mean												

Peak Computed Discharge = 627.6 cumecs on 25-09-2016 **Corres. Water Level :124.03 m**

Lowest Computed Discharge = 0.734 cumecs on 30-11-2016 **Corres. Water Level :121.26 m**

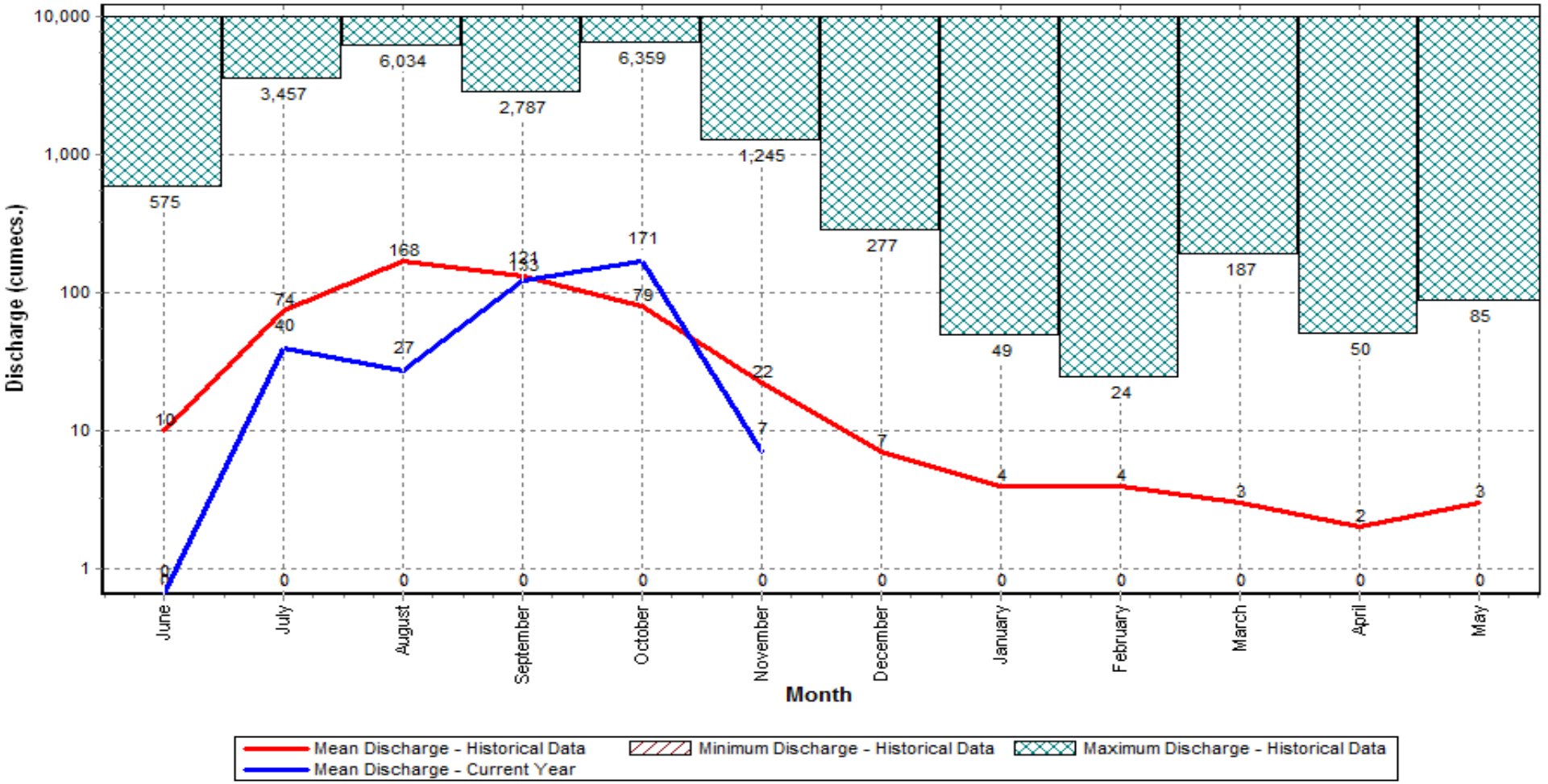
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Data considered : 1967-2017** **Division : Lower Godavari Div., Hyderabad**

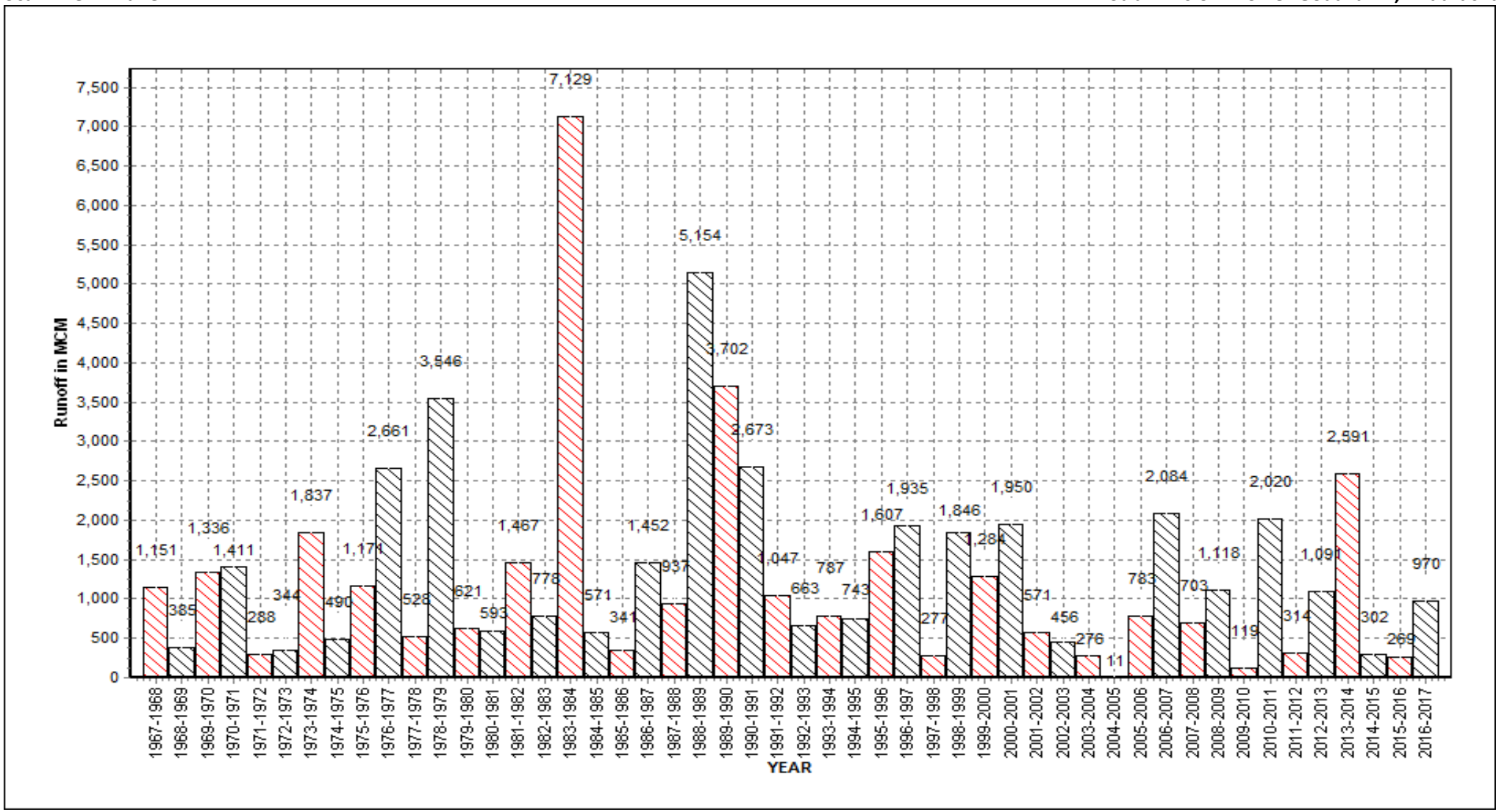
Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



Annual Runoff Values for the period: 1967 - 2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



Note: Missing values have not been considered while arriving at Annual Runoff

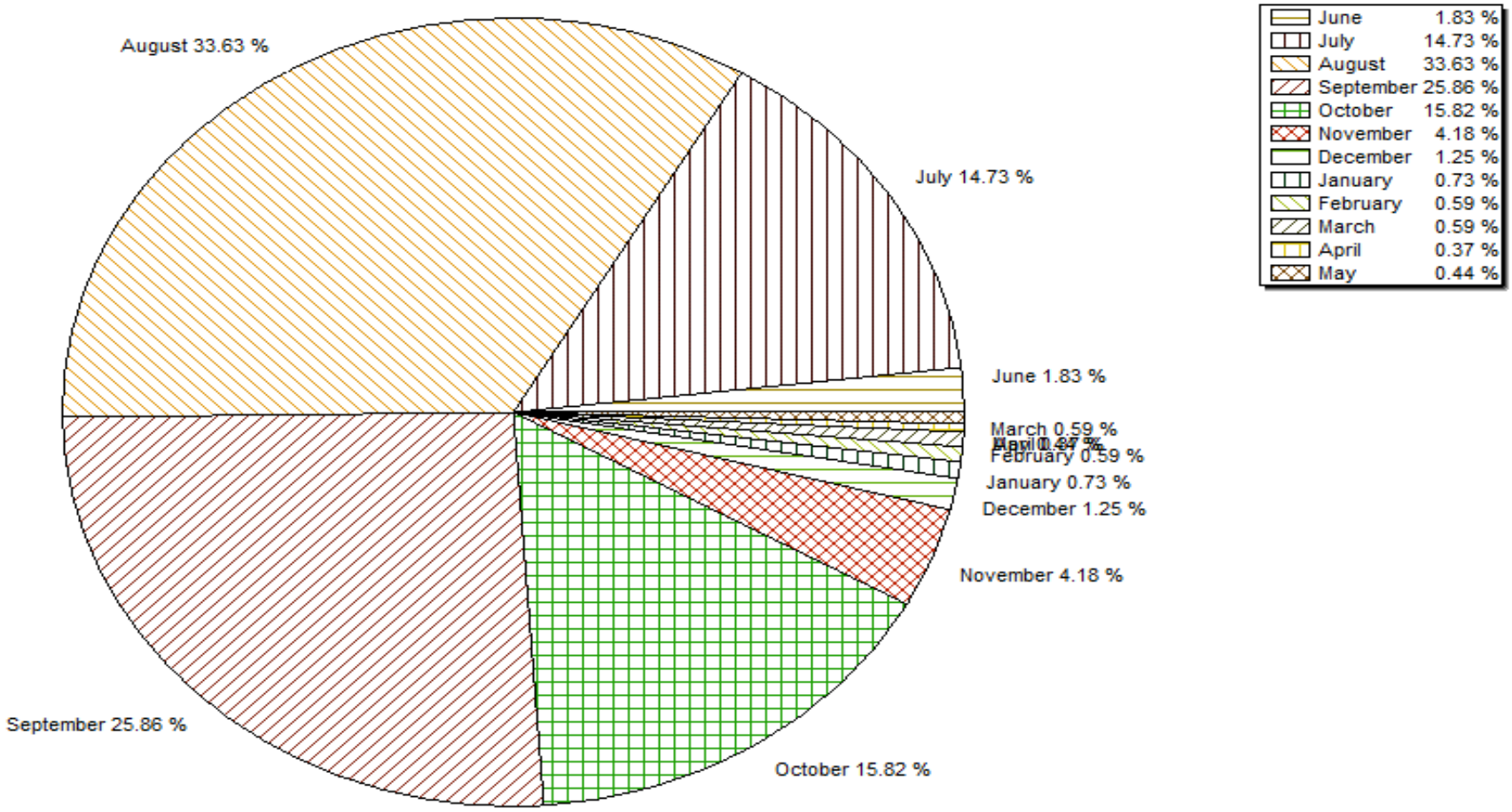
Monthly Average Runoff based on period : 1967-2016

Station Name : Somanpally (Seasonal) (AGI00C3)

Local River : Maner

Division : Lower Godavari Div., Hyderabad

Sub-Division : Lower Godavari 1, Bhadrachalam



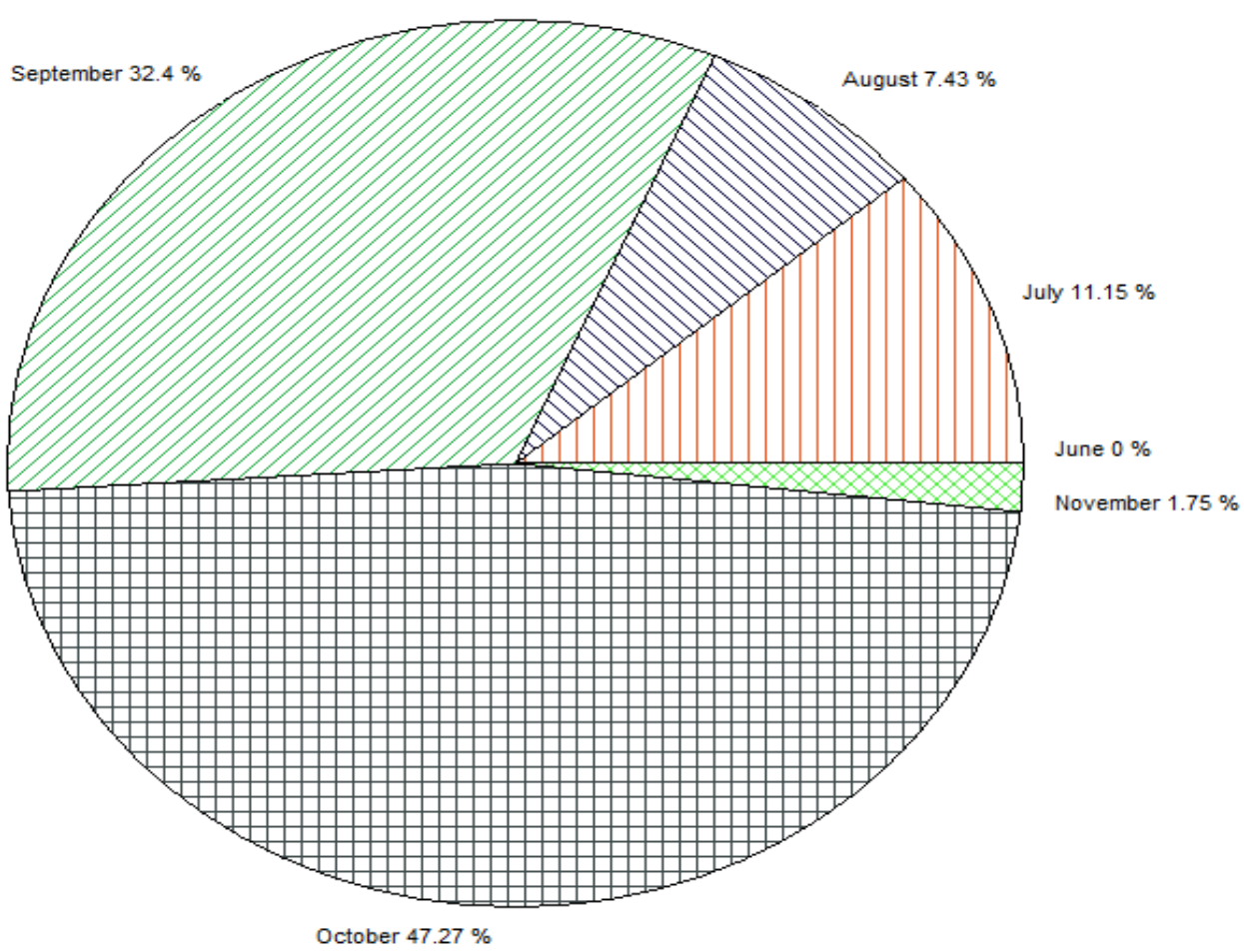
Monthly Runoff for the Year : 2016-2017

Station Name : Somanpally (Seasonal) (AGI00C3)

Local River : Maner

Division : Lower Godavari Div., Hyderabad

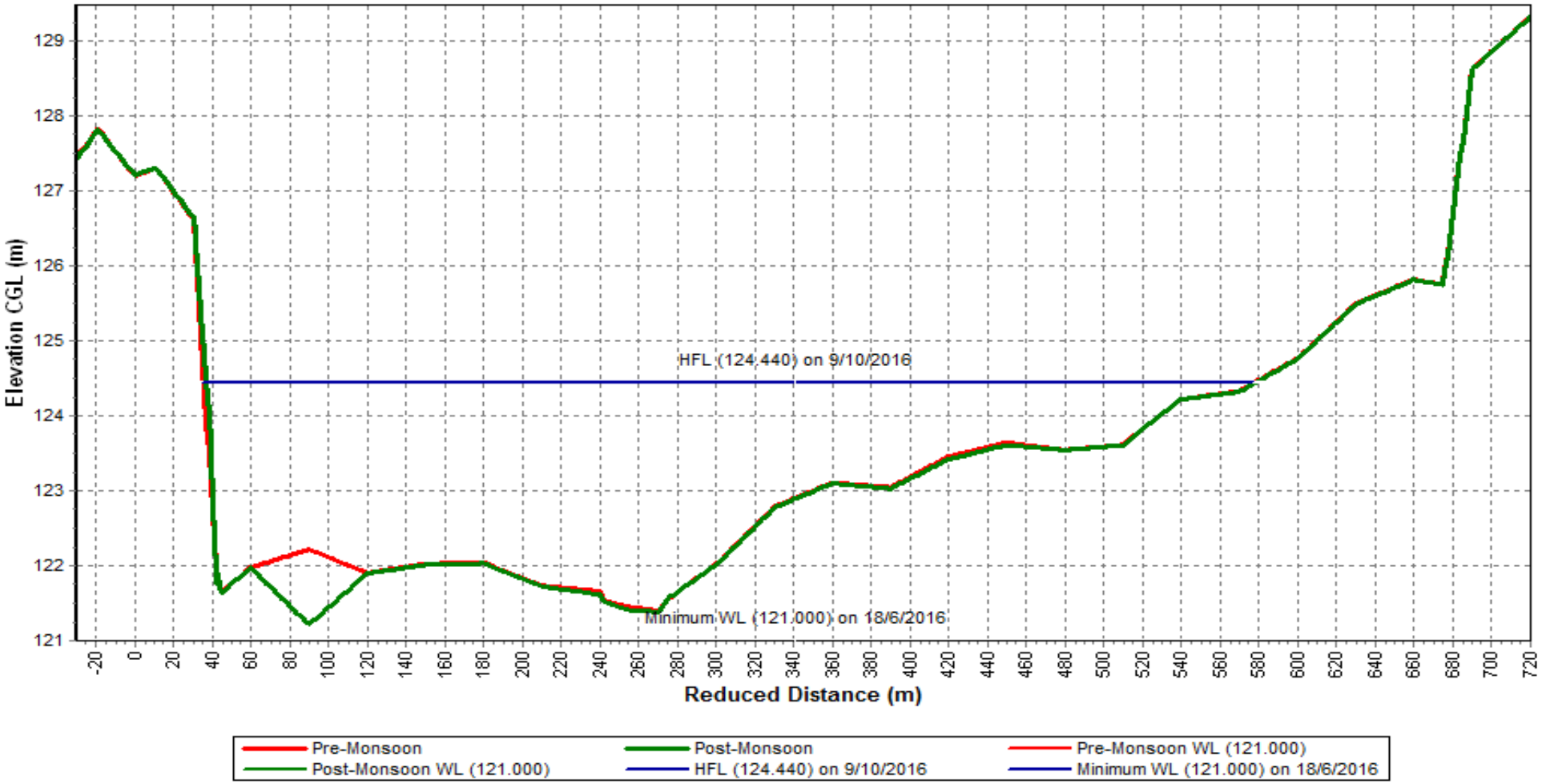
Sub-Division : Lower Godavari 1, Bhadrachalam



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

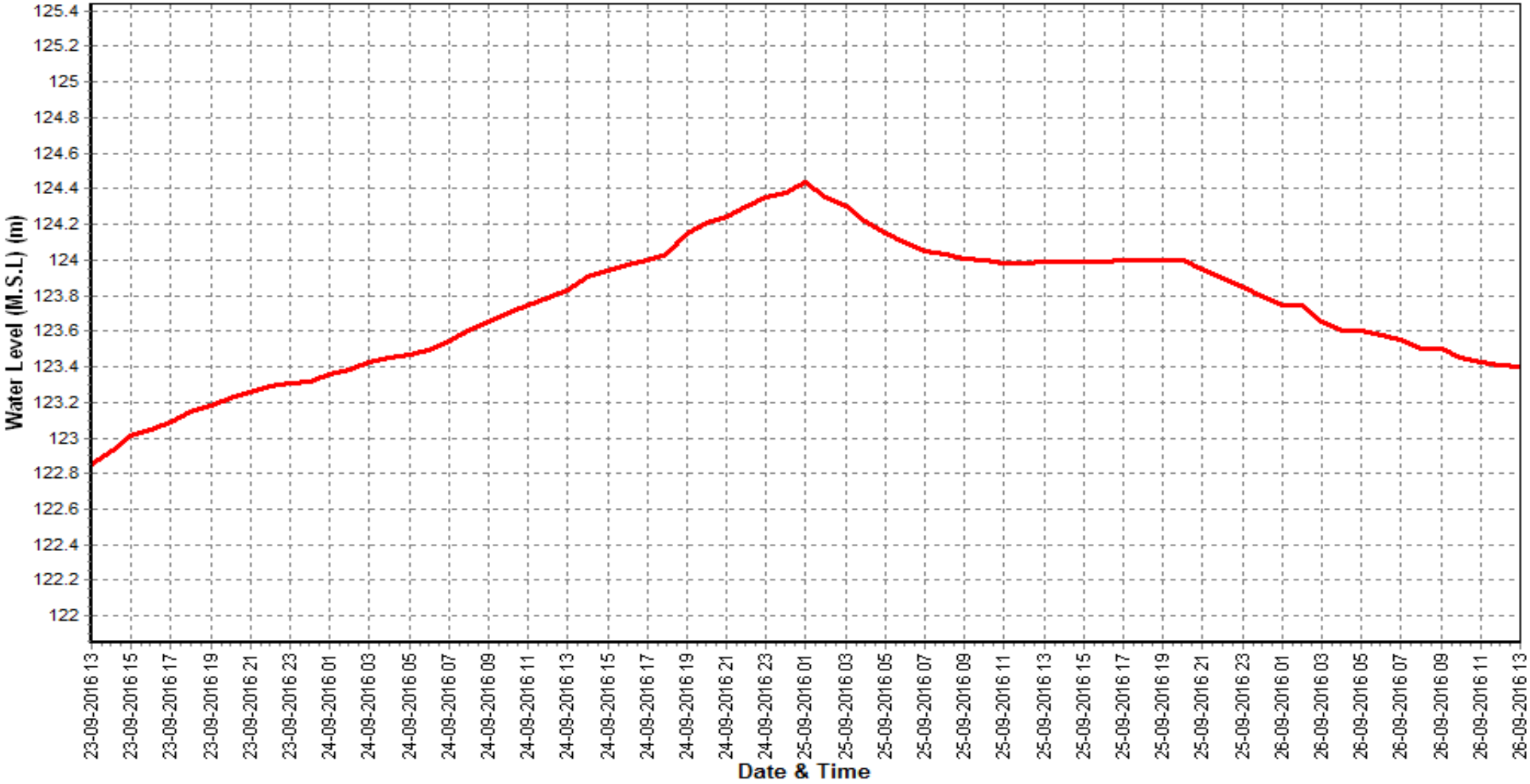
Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

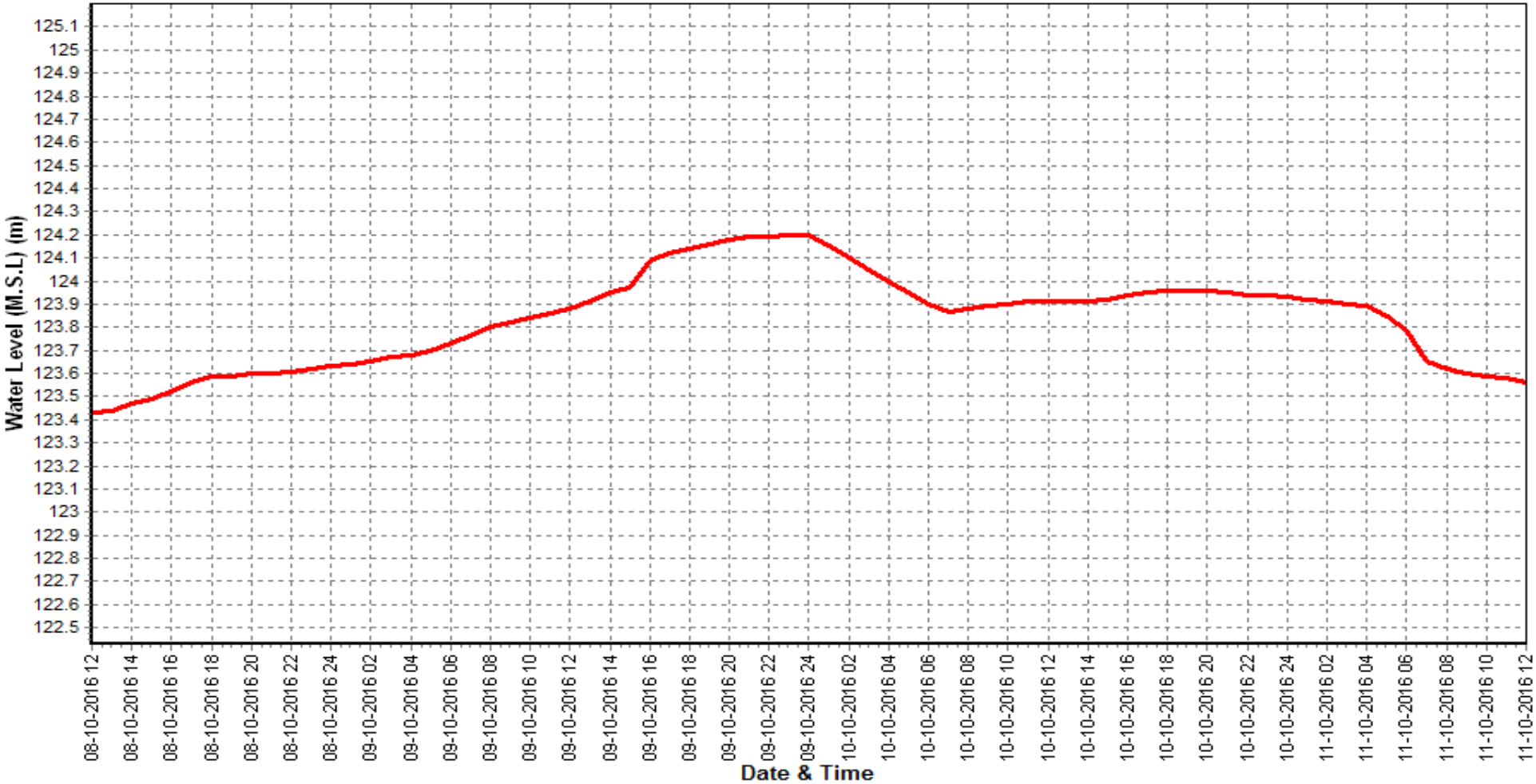


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**

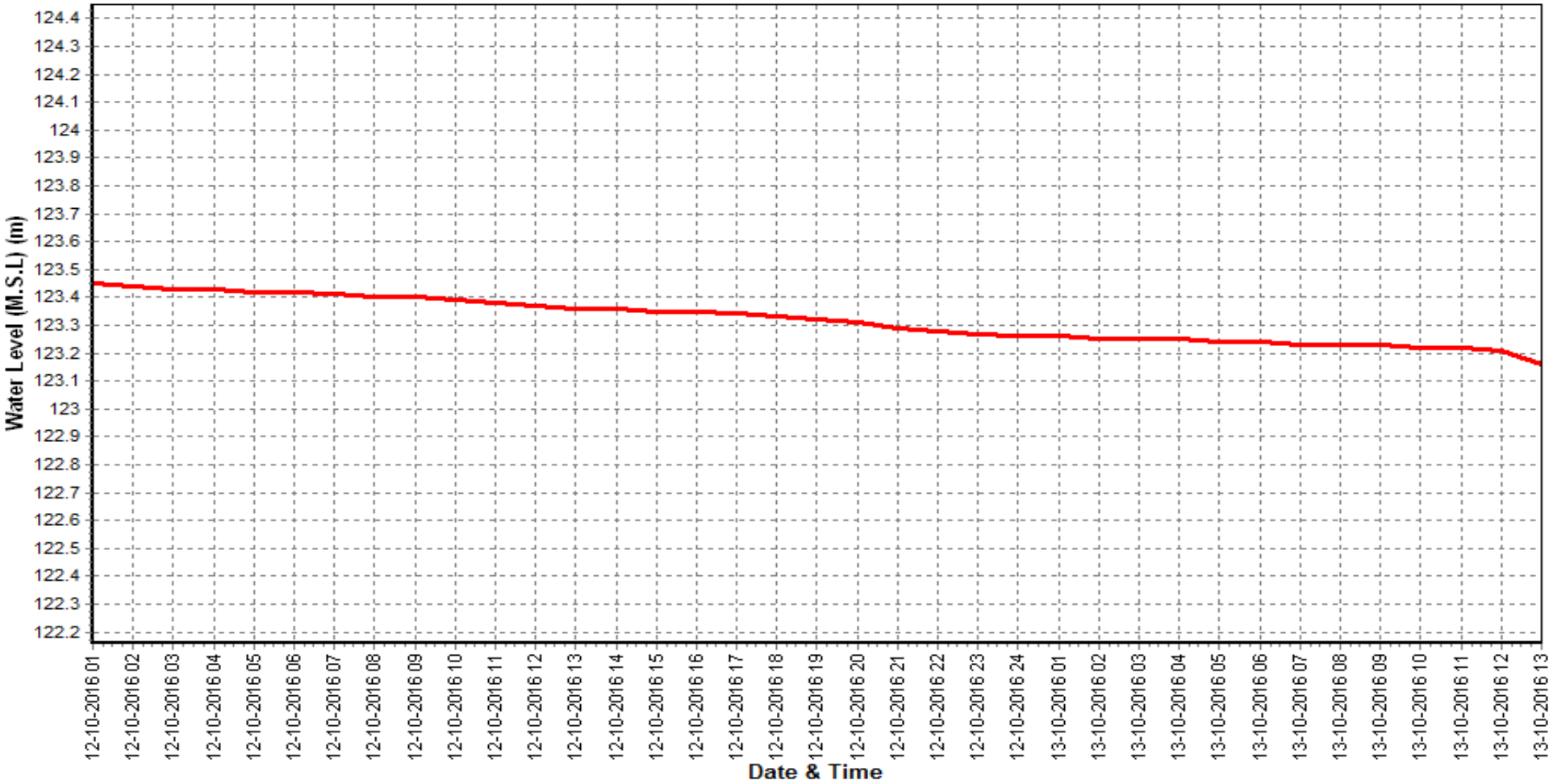


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Somanpally (Seasonal) (AGI00C3) **Division : Lower Godavari Div., Hyderabad**

Local River : Maner **Sub-Division : Lower Godavari 1, Bhadrachalam**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Kiwaibalenga**	**Code**	**:**	**KOKIDI**
State	:	Chhattisgarh	District		Bastar
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Indravathi	Sub Tributary	:	Bawardhi
Sub-Sub Tributary	:	-	Local River	:	Bawardhi
Division	:	Lower Godavari Div., Hyderabad	Sub-Division	:	Indravati SD, Jagdalpur
Drainage Area	:	910 Sq. Km.	Bank	:	Left
Latitude	:	19°38'30"	Longitude	:	81°33'45"
Zero of Gauge (m)	:	562 (m.s.l)	01.03.1996		
		Opening Date	Closing Date		
Gauge	:	01.03.1996	**HFL During 2016-17**	**:**	**569.9**
			Corres.Discharge	**:**	**257.988 Cumecs(Estimated)**
Discharge	:	29.08.2005	**Date& Time of**	**:**	**12.09.2016**
			Occurance	**:**	**08:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2010-2011	1408	571.790	06.08.2010	0.000		02.06.2010
2011-2012	480.7	567.940	31.08.2011	0.000	563.800	18.02.2012
2012-2013	915.9	569.400	20.08.2012	0.000		23.02.2013
2013-2014	1037	569.900	01.08.2013	0.000	564.040	12.03.2014
2014-2015	213.8	572.000	22.07.2014	0.000	564.010	12.12.2014
2015-2016	230.7	569.440	18.09.2015	0.000	563.890	31.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	563.810	0.000 *	565.470	40.04 *	565.410	37.96 *	565.800	52.08 *	566.500	80.38 *	564.470	7.700
2	563.810	0.000 *	565.280	33.55 *	565.530	42.16 *	565.480	40.39 *	566.100	63.77 *	564.460	7.333
3	563.810	0.000 *	564.830	19.61 *	566.680	88.21 *	565.460	39.69 *	565.740	49.82 *	564.440	7.049
4	563.820	0.000 *	564.690	15.74 *	566.080	62.97 *	565.620	45.40 *	565.540	42.52 *	564.420	6.433
5	563.820	0.000 *	564.600	13.39 *	566.310	72.35 *	565.440	39.00 *	565.530	42.16 *	564.410	6.059
6	563.820	0.000 *	564.800	18.76 *	568.370	170.9 *	565.270	33.22 *	565.340	35.56 *	564.340	6.058 *
7	563.820	0.000 *	564.750	18.06	569.210	217.5 *	565.060	26.47 *	565.520	41.81 *	564.400	5.521
8	563.990	1.155 *	564.510	10.75	567.180	111.0 *	564.890	21.34 *	566.230	69.05 *	564.400	5.386
9	563.880	0.083 *	565.070	26.78 *	566.140	65.38 *	564.840	19.90 *	566.890	97.60 *	564.370	4.820
10	563.850	0.000 *	565.800	52.08 *	565.630	45.76 *	566.560	82.97 *	566.780	92.65 *	564.350	4.537
11	563.850	0.000 *	567.850	143.8 *	565.340	35.56 *	567.400	121.5 *	566.090	63.37 *	564.330	4.090
12	564.020	1.548 *	566.670	87.77 *	566.290	71.52 *	569.900	258.0 *	565.620	45.40 *	564.320	3.655
13	564.090	2.581 *	565.680	47.59 *	565.840	53.59 *	567.460	124.4 *	565.370	36.58 *	564.300	3.654 *
14	564.070	2.271 *	565.150	29.30 *	565.520	41.81 *	566.890	97.60 *	565.170	29.95 *	564.300	3.654 *
15	564.020	1.548 *	564.880	21.05 *	565.260	32.89 *	566.190	67.41 *	565.030	25.54 *	564.190	1.963
16	563.970	0.913 *	564.870	20.76 *	565.600	44.67 *	565.840	53.59 *	564.940	22.81 *	564.310	4.251
17	563.970	0.913 *	564.770	17.92 *	566.110	64.17 *	565.530	42.16 *	564.880	21.05 *	564.300	3.841
18	564.150	3.578 *	564.780	18.20 *	565.630	45.76 *	565.340	35.56 *	564.810	19.04 *	564.290	4.005
19	564.530	11.64 *	564.720	16.55 *	565.240	32.23 *	565.980	59.01 *	564.750	17.37 *	564.290	3.783
20	564.380	8.146 *	564.650	14.69 *	565.030	25.54 *	565.780	51.32 *	564.680	15.48 *	564.290	3.783 *
21	564.230	5.043 *	565.330	35.23 *	564.880	21.05 *	565.790	51.70 *	564.680	12.10	564.280	3.474
22	564.150	3.578 *	565.280	33.55 *	564.800	18.76 *	565.580	43.95 *	564.680	12.83	564.270	3.147
23	564.100	2.741 *	567.710	136.8 *	564.700	16.01 *	565.470	40.04 *	564.630	12.83 *	564.250	3.069
24	565.670	47.23 *	567.470	124.9 *	564.650	14.69 *	565.330	35.23 *	564.600	9.799	564.240	2.629
25	564.600	13.39 *	566.970	101.3 *	564.960	23.41 *	565.260	32.89 *	564.580	9.898	564.230	2.236
26	564.980	24.01 *	566.300	71.94 *	565.220	31.57 *	565.500	41.10 *	564.550	9.478	564.220	1.720
27	564.500	10.92 *	565.670	47.23 *	565.950	57.84 *	565.430	38.65 *	564.540	9.292	564.210	1.720 *
28	564.660	14.95 *	565.410	37.96 *	566.250	69.87 *	566.480	79.53 *	564.520	8.416	564.160	1.449
29	565.030	25.54 *	565.380	36.93 *	565.680	47.59 *	567.120	108.2 *	564.500	7.709	564.070	0.236
30	565.340	35.56 *	565.280	33.55 *	565.300	34.22 *	567.020	103.6 *	564.500	7.709 *	564.050	0.201
31			566.080	62.97 *	566.100	63.77 *			564.480	7.937		
Ten-Daily Mean												
I Ten-Daily	563.843	0.124	564.980	24.88	566.654	91.42	565.442	40.04	566.017	61.53	564.406	6.090
II Ten-Daily	564.105	3.314	565.402	41.77	565.586	44.77	566.631	91.06	565.134	29.66	564.292	3.668
III Ten-Daily	564.726	18.30	566.080	65.66	565.317	36.25	565.898	57.48	564.569	9.817	564.198	1.988
Monthly												
Min.	563.810	0.000	564.510	10.75	564.650	14.69	564.840	19.90	564.480	7.709	564.050	0.201
Max.	565.670	47.23	567.850	143.8	569.210	217.5	569.900	258.0	566.890	97.60	564.470	7.700
Mean	564.225	7.245	565.506	44.8	565.835	56.8	565.990	62.86	565.218	32.9	564.299	3.915

Annual Runoff in MCM = 555 Annual Runoff in mm = 610

Peak Observed Discharge = 18.06 cumecs on 07-07-2016 Corres. Water Level :564.75 m

Lowest Observed Discharge = 0.000 cumecs on 01-02-2017 Corres. Water Level :563.94 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	564.160	1.582	564.090	0.671 *	563.940	0.000	563.910	0.000	563.830	0.000	563.790	0.000
2	564.170	1.794	564.080	0.592	563.940	0.000	563.910	0.000	563.830	0.000	563.790	0.000
3	564.170	1.709	564.080	0.527	563.940	0.000	563.910	0.000	563.820	0.000	563.790	0.000
4	564.160	1.709 *	564.070	0.458	563.930	0.000	563.910	0.000	563.820	0.000	563.790	0.000
5	564.160	1.752	564.040	0.487	563.930	0.000	563.910	0.000	563.820	0.000	563.790	0.000
6	564.140	1.526	564.030	0.451	563.930	0.000	563.920	0.000	563.810	0.000	563.790	0.000
7	564.140	1.409	564.030	0.433	563.930	0.000	563.920	0.000	563.810	0.000	563.990	0.000
8	564.130	1.283	564.030	0.433 *	563.930	0.000	563.920	0.000	563.800	0.000	563.920	0.000
9	564.120	0.941	564.020	0.386	563.930	0.000	563.920	0.000	563.790	0.000	563.900	0.000
10	564.120	0.916	564.020	0.380	563.930	0.000	563.920	0.000	563.790	0.000	563.870	0.000
11	564.110	0.916 *	564.020	0.374	563.920	0.000	563.940	0.000	563.850	0.000	563.850	0.000
12	564.110	0.848	564.010	0.341	563.920	0.000	563.920	0.000	563.850	0.000	563.850	0.000
13	564.100	0.848 *	564.010	0.334	563.920	0.000	563.920	0.000	563.840	0.000	563.890	0.000
14	564.090	0.740	564.000	0.334 *	563.920	0.000	563.920	0.000	563.840	0.000	563.900	0.000
15	564.100	0.797	564.010	0.334 *	563.920	0.000	563.920	0.000	563.840	0.000	563.900	0.000
16	564.100	0.818	564.000	0.131	563.920	0.000	563.910	0.000	563.840	0.000	563.890	0.000
17	564.100	0.785	564.000	0.106	563.920	0.000	563.900	0.000	563.840	0.000	563.890	0.000
18	564.100	0.785 *	564.000	0.101	563.920	0.000	563.900	0.000	563.830	0.000	563.880	0.000
19	564.090	0.785 *	564.000	0.103	563.920	0.000	563.900	0.000	563.830	0.000	563.870	0.000
20	564.090	0.604	563.990	0.088	563.920	0.000	563.900	0.000	563.830	0.000	563.870	0.000
21	564.090	0.578	563.990	0.086	563.910	0.000	563.900	0.000	563.860	0.000	563.850	0.000
22	564.070	0.540	563.980	0.086 *	563.910	0.000	563.890	0.000	563.860	0.000	563.840	0.000
23	564.070	0.549	564.010	0.155	563.910	0.000	563.890	0.000	563.860	0.000	563.830	0.000
24	564.070	0.523	563.970	0.078	563.910	0.000	563.890	0.000	563.860	0.000	563.820	0.000
25	564.070	0.523 *	563.950	0.000 *	563.910	0.000	563.890	0.000	563.860	0.000	563.810	0.000
26	564.070	0.523 *	563.950	0.000 *	563.910	0.000	563.880	0.000	563.860	0.000	563.800	0.000
27	564.100	0.818	563.950	0.000 *	563.910	0.000	563.880	0.000	563.860	0.000	563.800	0.000
28	564.110	0.817	563.940	0.000 *	563.910	0.000	563.880	0.000	563.850	0.000	563.780	0.000
29	564.100	0.708	563.940	0.000 *			563.880	0.000	563.850	0.000	563.790	0.000
30	564.100	0.687	563.940	0.000 *			563.870	0.000	563.850	0.000	563.790	0.000
31	564.090	0.671	563.940	0.000 *			563.870	0.000			563.780	0.000
Ten-Daily M												
I Ten-Daily	564.147	1.462	564.049	0.482	563.933	0.000	563.915	0.000	563.812	0.000	563.842	0.000
II Ten-Daily	564.099	0.793	564.004	0.225	563.920	0.000	563.913	0.000	563.839	0.000	563.879	0.000
III Ten-Daily	564.085	0.631	563.960	0.037	563.910	0.000	563.884	0.000	563.857	0.000	563.808	0.000
Monthly												
Min.	564.070	0.523	563.940	0.000	563.910	0.000	563.870	0.000	563.790	0.000	563.780	0.000
Max.	564.170	1.794	564.090	0.671	563.940	0.000	563.940	0.000	563.860	0.000	563.990	0.000
Mean	564.110	0.951	564.003	0.241	563.922	0	563.903	0	563.836	0	563.842	0

Peak Computed Discharge = 258.0 cumecs on 12-09-2016 **Corres. Water Level :569.9 m**

Lowest Computed Discharge = 0.000 cumecs on 01-06-2016 **Corres. Water Level :563.81 m**

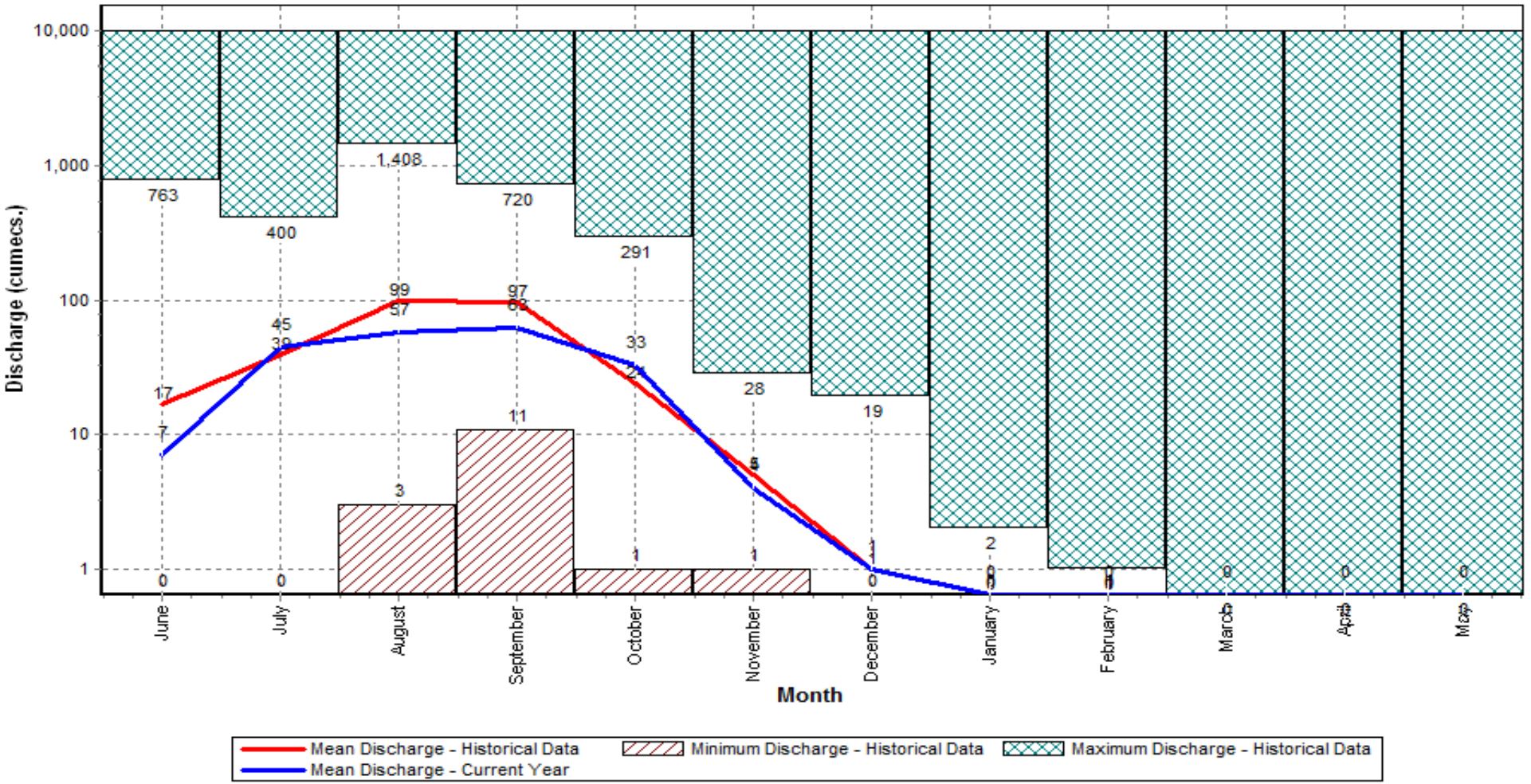
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Kiwaibalenga (KOKIDI) | **Data considered : 2010-2017** | **Division : Lower Godavari Div., Hyderabad**

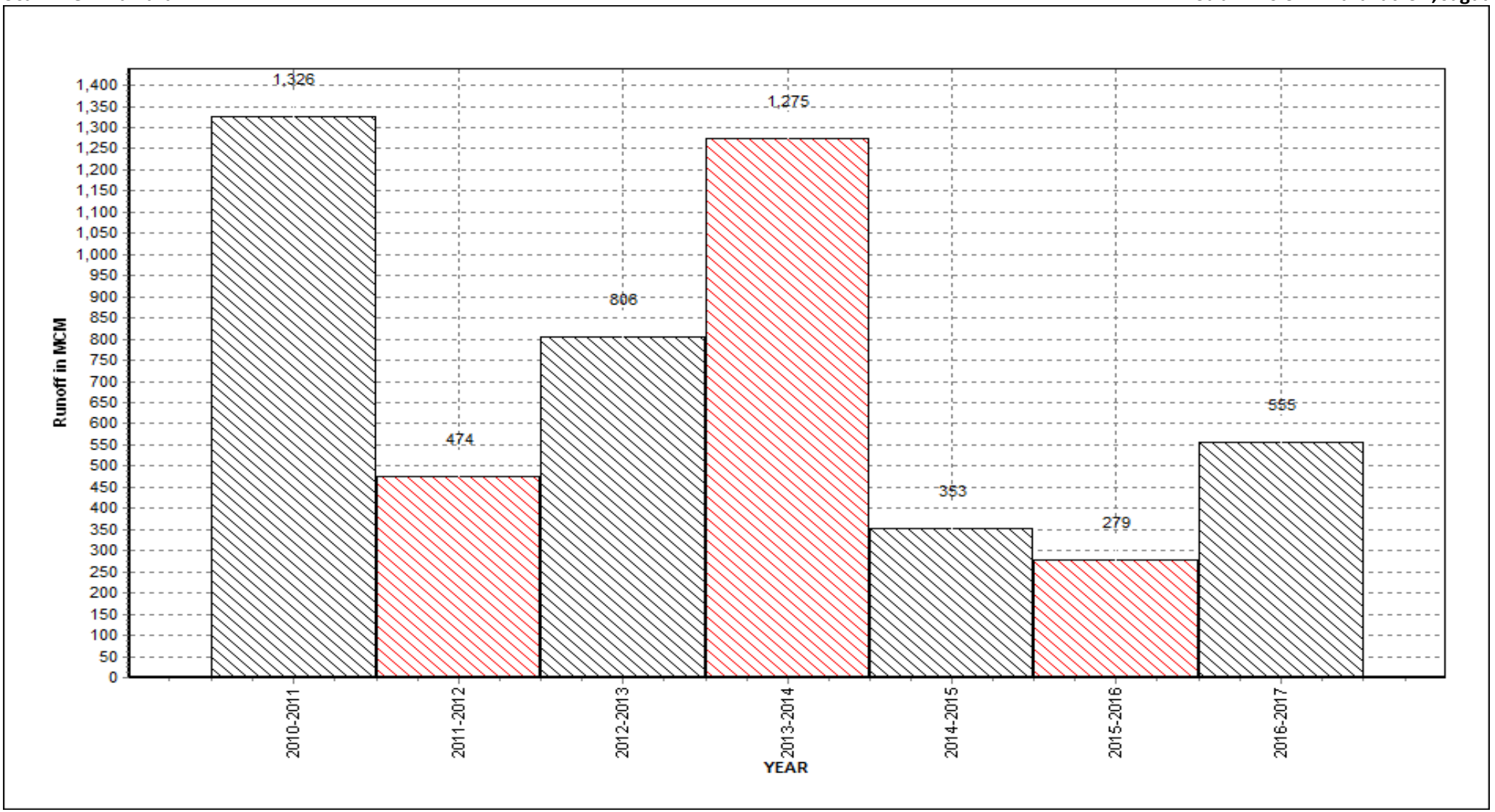
Local River : Bawardhi | **Sub-Division : Indravati SD, Jagdalpur**



Annual Runoff Values for the period: 2010 - 2017

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**

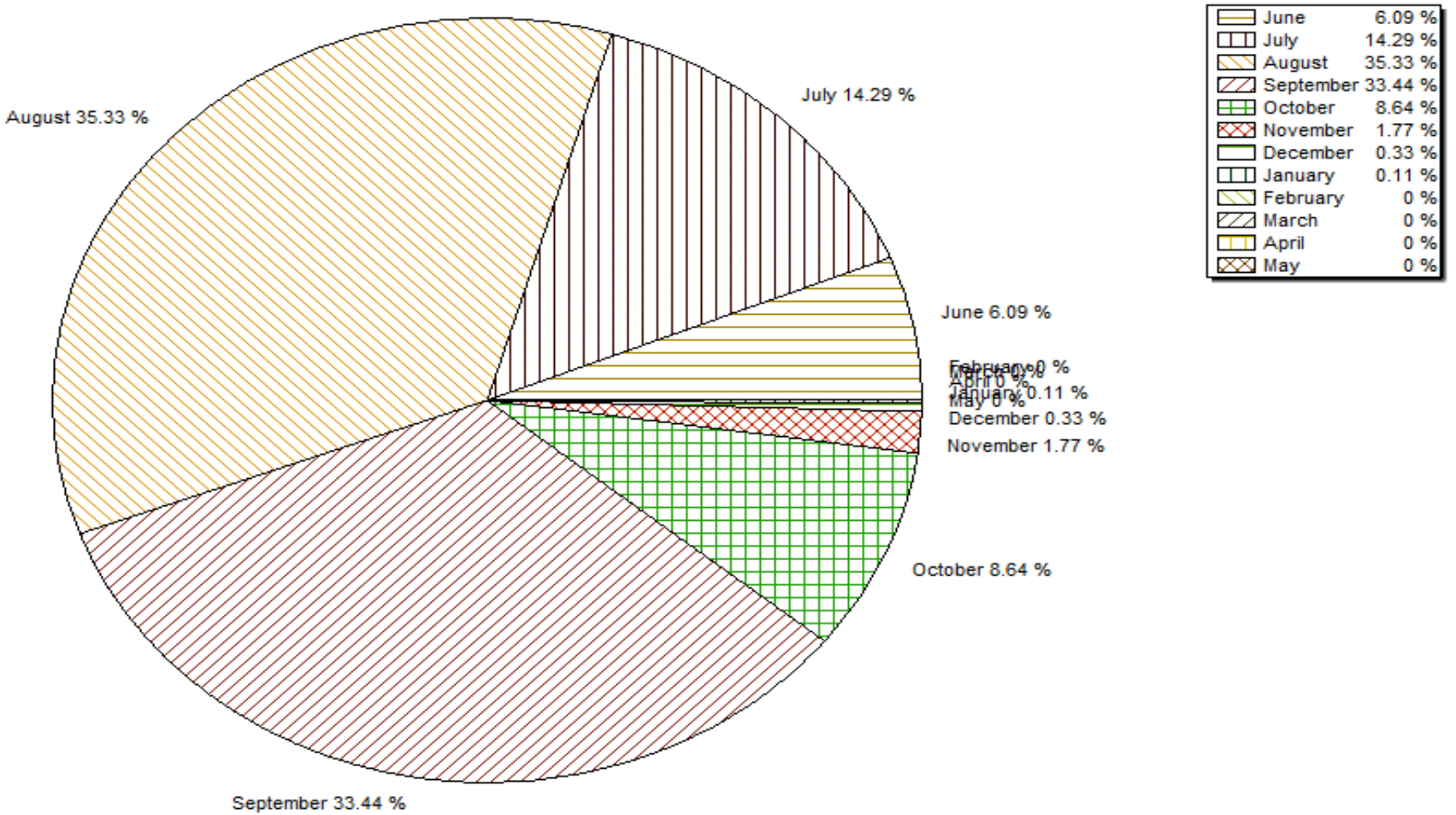


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 2010-2016

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**



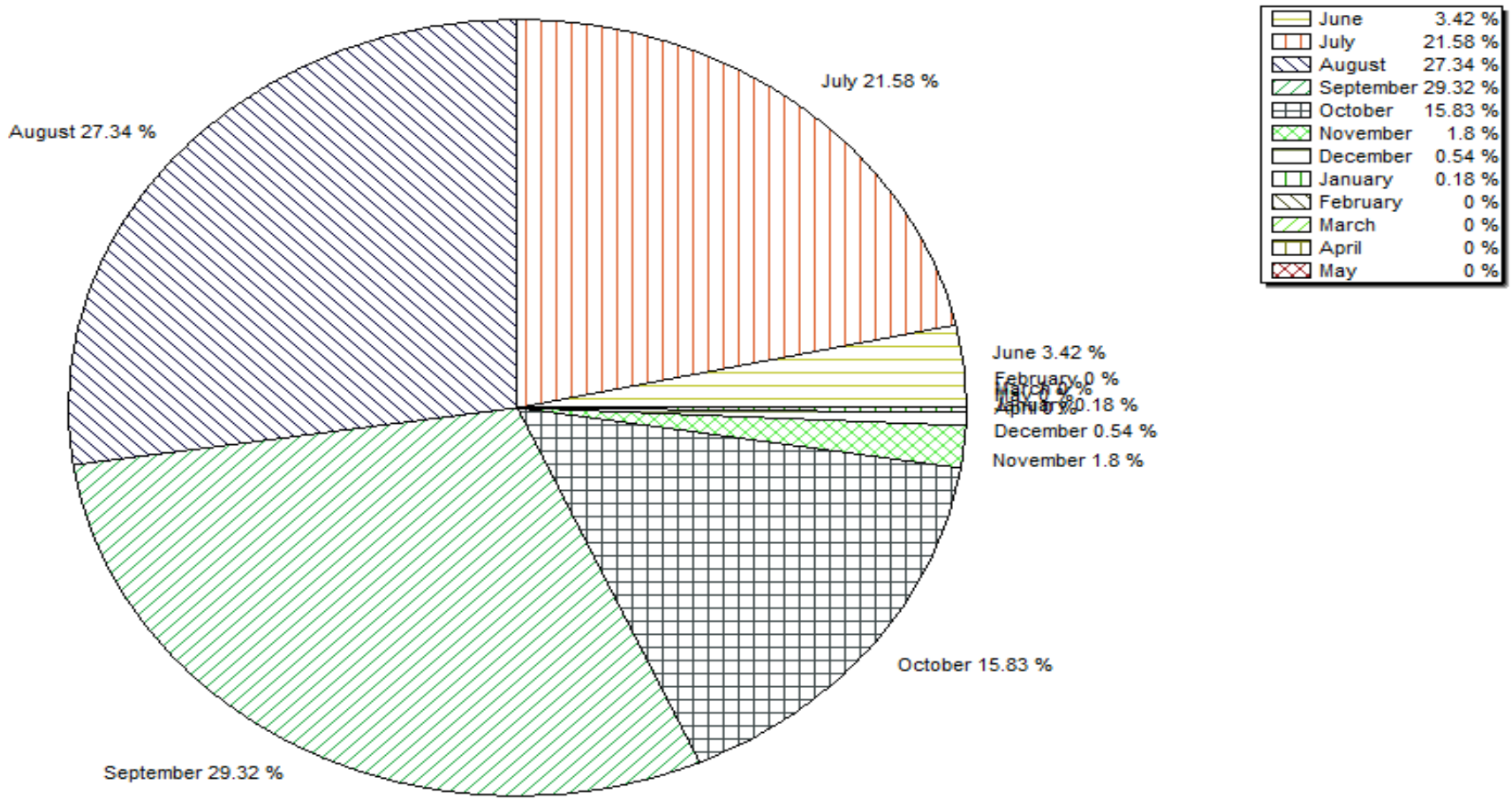
Monthly Runoff for the Year : 2016-2017

Station Name : Kiwaibalenga (KOKIDI)

Division : Lower Godavari Div., Hyderabad

Local River : Bawardhi

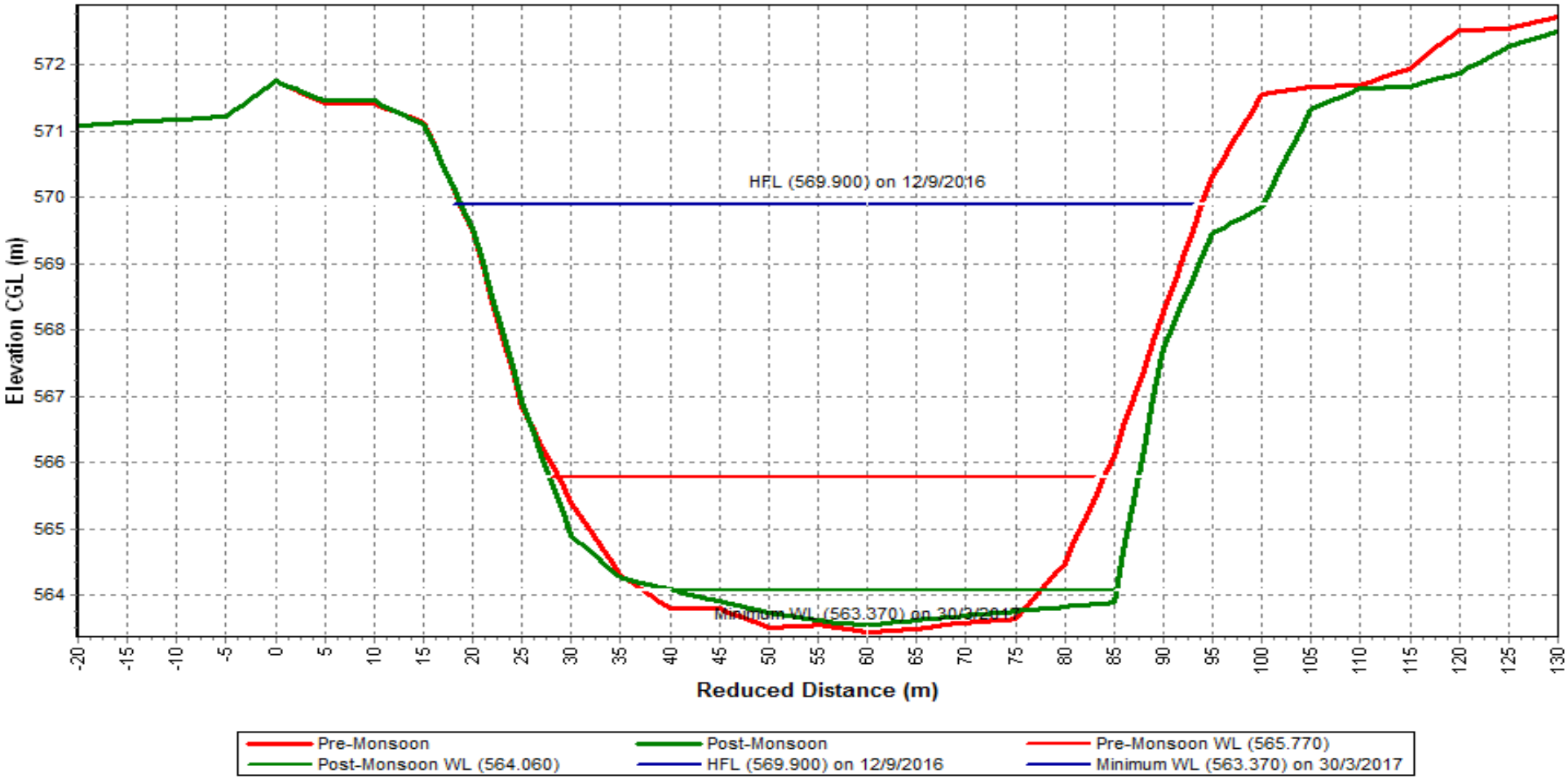
Sub-Division : Indravati SD, Jagdalpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

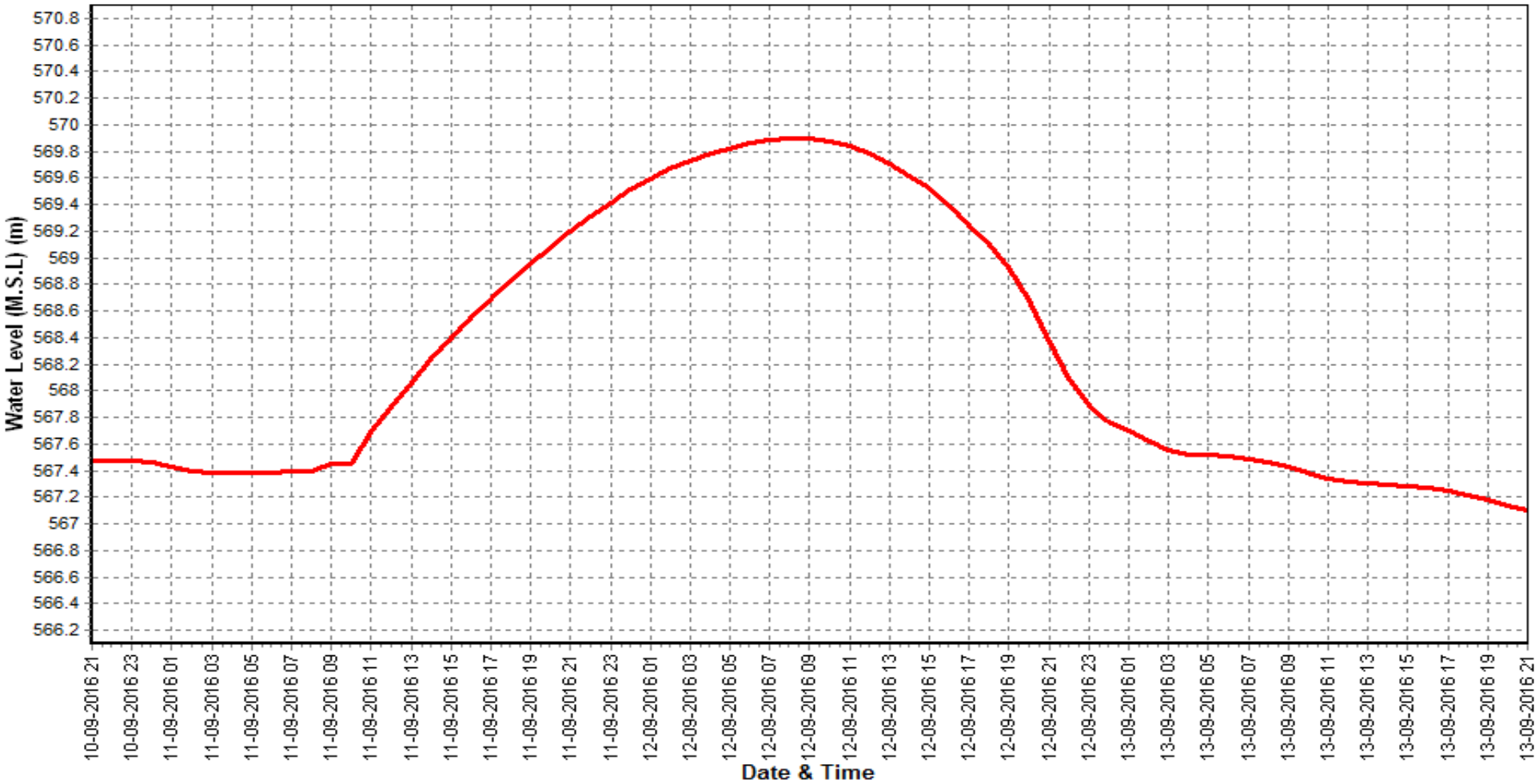
Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**

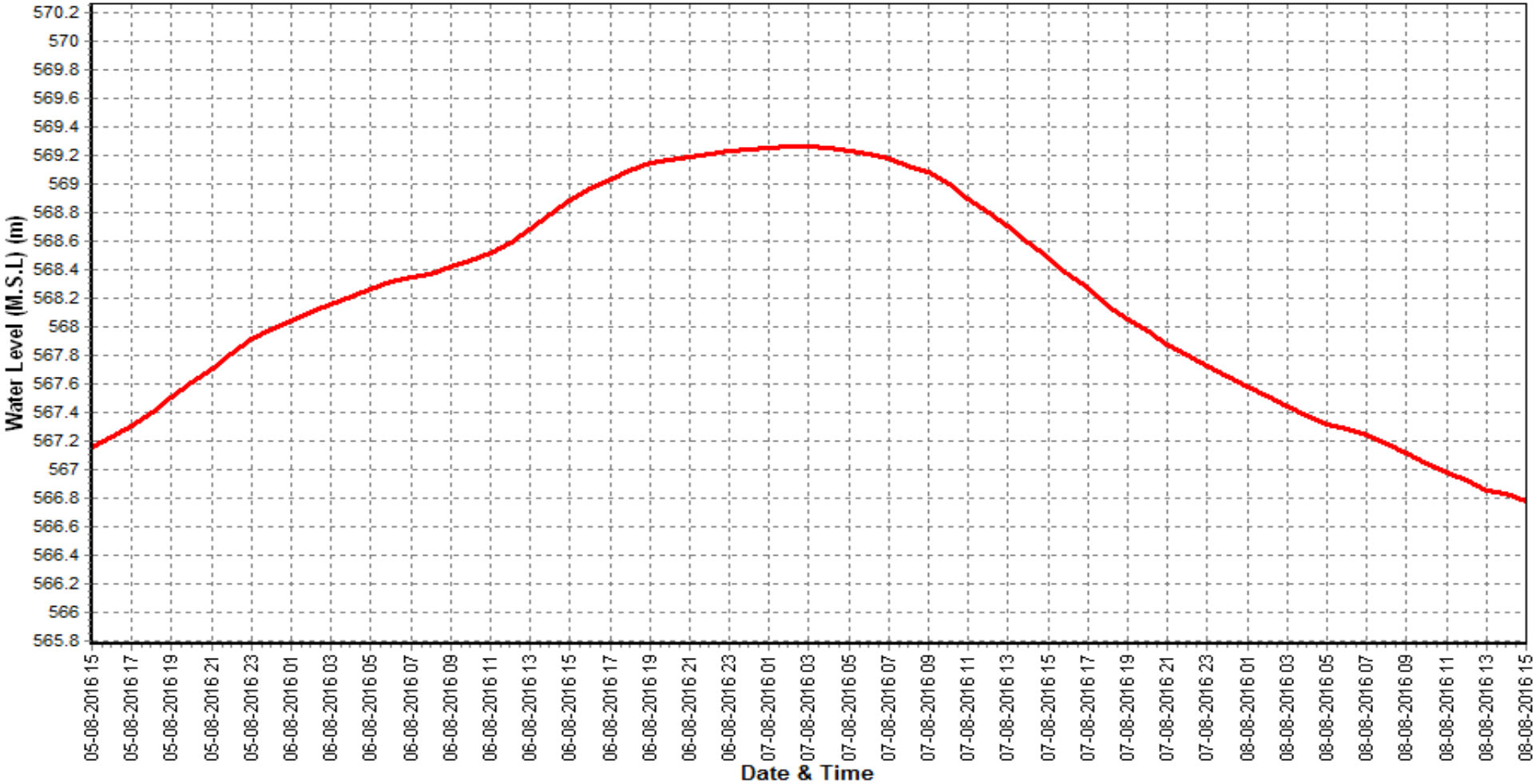


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**

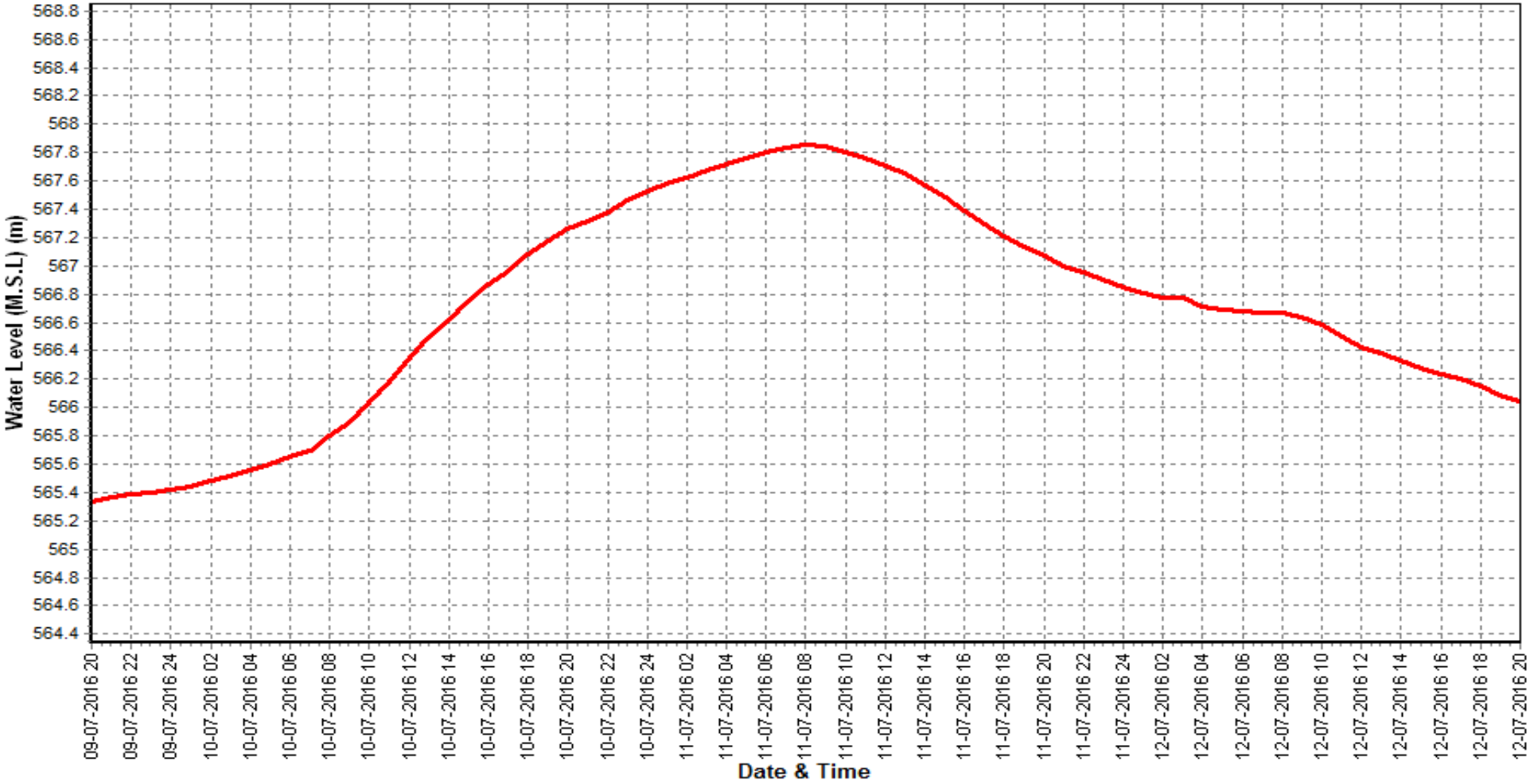


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Kiwaibalenga (KOKIDI) **Division : Lower Godavari Div., Hyderabad**

Local River : Bawardhi **Sub-Division : Indravati SD, Jagdalpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: TEKRA**		**Code**	**: AGH00C4**	
State	: Maharashtra		District	Gadchiroli	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	:	
Sub-Sub Tributary	:		Local River	: Pranhita	
Division	: Wainganga Div., Nagpur		Sub-Division	: L Wainganga SD, Chandrapur	
Drainage Area	: 108780 Sq. Km.		Bank	: Left	
Latitude	: 18°58'42"		Longitude	: 79°56'49"	
Zero of Gauge (m)	: 95.09 (m.s.l)		01.06.1964		
	Opening Date		Closing Date		
Gauge	: 01.06.1964				
Discharge	: 15.07.1964		**HFL During 2016-17**	**: 108.330 Meter**	
			Corres.Discharge	**: 12071.89 Cumecs(Estimated)**	
Sediment	: 01.07.1965		**Date & Time of**	**: 13.07.2016**	
			Occurance	**: 12.00 Hrs.**	
Water Quality	: 15.06.1966				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1964-1965	25.67	97.340	01.06.1964	25.60	97.330	02.06.1964
1965-1966	8204	104.065	03.09.1965	2.900	96.210	11.05.1966
1966-1967	26000	110.920	06.09.1966	1.800	96.175	09.06.1966
1967-1968	15839	107.578	04.08.1967	3.100	96.200	12.06.1967
1968-1969	21480	108.670	18.08.1968	3.643	96.075	31.05.1969
1969-1970	15065	107.495	22.09.1969	3.165	96.065	04.06.1969
1970-1971	26646	110.560	06.09.1970	20.09	96.375	28.05.1971
1971-1972	13400	107.190	02.09.1971	1.990	96.300	31.05.1972
1972-1973	8571	104.795	25.08.1972	1.364	96.250	16.06.1972
1973-1974	27589	109.105	10.07.1973	2.160	96.350	01.06.1973
1974-1975	21127	108.350	22.08.1974	1.650	96.455	29.05.1975
1975-1976	24919	109.850	15.08.1975	3.590	96.535	15.06.1975
1976-1977	24085	109.460	03.09.1976	6.930	96.780	05.06.1976
1977-1978	14150	107.520	24.08.1977	5.900	96.650	12.06.1977
1978-1979	33617	111.648	01.09.1978	13.10	96.570	07.06.1978
1979-1980	28714	111.175	13.08.1979	3.100	97.015	31.05.1980
1980-1981	19000	108.630	03.08.1980	3.200	97.020	02.06.1980
1981-1982	33732	112.140	11.08.1981	5.800	97.190	10.06.1981
1982-1983	6158	103.975	18.08.1982	6.700	97.255	07.05.1983
1983-1984	20910	109.600	14.08.1983	4.400	97.170	13.06.1983
1984-1985	18683	108.140	21.08.1984	2.600	97.580	31.05.1985
1985-1986	9855	105.350	18.07.1985	2.200	97.600	02.06.1985

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	46600	114.600	15.08.1986	3.700	97.825	14.06.1986
1987-1988	6492	104.220	29.08.1987	2.800	97.600	31.05.1988
1988-1989	14908	107.773	02.10.1988	1.900	97.570	08.06.1988
1989-1990	12408	106.425	02.09.1989	4.600	98.015	06.05.1990
1990-1991	26200	112.260	23.08.1990	27.00	98.105	21.05.1991
1991-1992	19826	108.740	17.08.1991	5.191	97.410	27.05.1992
1992-1993	24823	110.360	23.08.1992	6.650	97.330	27.05.1993
1993-1994	9800	105.390	01.08.1993	4.500	97.170	25.05.1994
1994-1995	35750	112.400	09.09.1994	4.709	97.120	08.06.1994
1995-1996	19972	108.990	04.09.1995	11.97	97.120	31.05.1996
1996-1997	4887	103.045	20.08.1996	8.624	97.150	31.05.1997
1997-1998	7877	104.550	01.08.1997	6.200	97.120	08.06.1997
1998-1999	14796	106.785	16.09.1998	25.22	97.050	24.05.1999
1999-2000	17623	108.250	21.09.1999	21.21	97.050	06.05.2000
2000-2001	38915	112.800	21.07.2000	5.591	96.940	31.05.2001
2001-2002	15497	108.540	16.08.2001	6.697	96.510	12.05.2002
2002-2003	16446	108.030	27.06.2002	5.702	96.490	03.06.2002
2003-2004	14828	107.285	30.07.2003	4.270	96.030	10.06.2003
2004-2005	6180	103.305	07.08.2004	1.506	96.040	28.05.2005
2005-2006	16243	109.240	18.09.2005	1.095	96.000	21.06.2005
2006-2007	20397	109.920	06.08.2006	13.26	96.350	31.05.2007
2007-2008	25540	110.410	09.08.2007	6.827	96.810	31.05.2008
2008-2009	14223	106.790	05.08.2008	1.287	96.530	17.05.2009
2009-2010	8737	104.480	25.07.2009	1.730	96.530	02.06.2009
2010-2011	20695	109.590	09.09.2010	5.310	96.840	25.05.2011
2011-2012	14976	107.590	09.09.2011	0.000	96.720	07.05.2012
2012-2013	16927	109.060	08.09.2012	0.000	96.660	05.06.2012
2013-2014	32665	112.090	02.08.2013	5.233	96.530	09.06.2013
2014-2015	12273	108.970	08.09.2014	9.435	97.080	15.06.2014
2015-2016	17398	106.890	15.08.2015	11.86	96.760	04.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	96.750	11.46	100.415	2052	101.940	3250	100.750	2084	102.630	3950 *	98.290	429.3
2	96.750	11.48	101.310	3144	102.790	3620	101.140	2339	102.590	3908 *	98.230	424.4
3	96.740	11.31	101.190	2598 *	102.750	3598	101.310	2375	102.510	3826 *	98.390	663.4
4	96.740	11.21	100.200	2019	102.750	3563	101.730	3072 *	102.560	3877 *	98.430	687.3
5	96.740	10.51 *	100.210	2020	103.070	4419 *	101.150	2565 *	101.770	3232	98.470	687.2
6	96.750	11.55	100.220	1847 *	103.310	4686 *	100.670	1901	101.530	3197	98.390	585.3 *
7	96.885	16.22	100.100	1939	103.380	4765 *	100.600	1824	100.860	2586	98.290	416.3
8	96.920	16.39	99.970	1823	103.820	5280 *	100.210	1578	101.010	2650	98.120	362.1
9	96.950	20.67	99.840	1713	104.660	6335 *	99.790	1408	100.740	2234 *	98.090	354.1
10	96.920	19.71	105.690	7759 *	103.200	4563 *	99.180	1353	103.060	4408 *	98.090	343.6
11	96.910	19.67	107.670	10905 *	102.090	3748	99.090	1133 *	102.810	4138 *	98.010	307.3
12	96.900	19.18 *	107.370	10394 *	101.170	2791	100.860	2219	101.710	3054 *	97.950	300.3
13	96.900	19.61	108.290	11999 *	100.600	2440	102.720	4044 *	101.260	2498	97.890	247.6 *
14	96.900	19.52	106.140	8427 *	100.450	2013 *	103.330	4709 *	100.700	2105	97.830	218.1 *
15	97.010	24.77	103.255	5508	100.230	1854 *	103.420	4811 *	100.180	1937	97.770	190.8 #
16	97.010	24.43	101.905	3926	100.010	1701 #	103.010	4353 *	99.850	1594 *	97.740	178.0 #
17	97.000	24.18	101.620	2972 *	100.110	1770 #	102.060	3437	99.630	1484	97.820	252.7
18	97.000	23.71	100.110	1880	99.750	1529 #	101.170	2581 *	99.580	1498	97.840	252.3
19	97.040	28.47 *	99.965	1758	99.390	1306 #	100.630	2409	99.390	1323	97.810	238.1
20	97.060	31.65	100.725	1818	99.060	889.7	100.220	2202	99.140	1283	97.770	190.8 *
21	97.140	38.93	100.710	1826	98.900	1030 *	100.130	2081	98.930	1230	97.690	154.0
22	97.150	39.38	100.450	1800	99.070	921.0	99.900	1921	98.910	1177	97.680	148.7
23	97.150	39.33	101.490	3168	98.860	842.4	100.430	2175	98.900	1117 *	97.630	140.9
24	97.170	39.45	102.070	3391 *	98.790	816.0	100.310	2085	98.840	995.3	97.660	143.7
25	97.210	47.55	102.910	3794	98.930	915.7	100.690	2195 *	98.775	1015	97.660	138.8
26	97.210	41.73 *	102.590	3689	99.280	1147	103.510	4915 *	98.760	959.8	97.650	135.6
27	97.330	54.30	102.530	3691	99.100	1014	103.210	4574 *	98.700	888.1	97.640	138.9 *
28	97.505	66.81	102.230	3321	99.450	1342 *	103.220	4585 *	98.630	869.4	97.620	128.5
29	100.145	2021	101.790	3237	100.820	2132	102.740	4065 *	98.530	810.4	97.600	123.4
30	99.005	1141	102.590	3663	100.840	2139	102.420	3735 *	98.430	619.8 *	97.590	119.7
31			101.970	3295 *	101.370	2659			98.350	442.8		
Ten-Daily Mean												
I Ten-Daily	96.814	14.05	100.914	2691	103.167	4408	100.653	2050	101.926	3387	98.279	495.3
II Ten-Daily	96.973	23.52	103.705	5959	100.286	2004	101.651	3190	100.425	2091	97.843	237.6
III Ten-Daily	97.701	352.9	101.939	3171	99.583	1360	101.656	3233	98.705	920.4	97.642	137.2
Monthly												
Min.	96.740	10.51	99.840	1713	98.790	816.0	99.090	1133	98.350	442.8	97.590	119.7
Max.	100.145	2021	108.290	11999	104.660	6335	103.510	4915	103.060	4408	98.470	687.3
Mean	97.163	130.2	102.178	3915	100.966	2551	101.320	2824	100.299	2094	97.921	290

Annual Runoff in MCM = 32726 Annual Runoff in mm = 301

Peak Observed Discharge = 5508 cumecs on 15/07/2016 Corres. Water Level :103.255 m

Lowest Observed Discharge = 11.21 cumecs on 04/06/2016 Corres. Water Level :96.74 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	97.590	119.1	97.590	108.3 *	97.750	122.0	97.700	121.7	97.190	76.34	96.940	44.26
2	97.580	114.7	97.570	111.6	97.720	118.8	97.670	112.4	97.160	65.21 *	96.930	43.90
3	97.560	115.7	97.610	117.5	97.720	118.5	97.670	112.4	97.130	73.16	96.920	42.77
4	97.570	106.0 *	97.610	117.6	97.730	119.1	97.650	111.1	97.190	76.26	96.930	43.63
5	97.560	113.6	97.610	116.8	97.730	125.2 *	97.630	113.0 *	97.150	74.38	96.930	43.34
6	97.570	115.4	97.590	115.1	97.740	121.0	97.590	103.8	97.150	75.48	96.930	40.20
7	97.570	113.6	97.590	115.8	97.740	120.3	97.570	101.0	97.120	73.44	96.930	47.25 *
8	97.580	115.0	97.590	108.3 *	97.710	115.2	97.540	96.38	97.120	73.66	96.930	42.61
9	97.560	108.9	97.590	114.4	97.670	112.3	97.540	92.13	97.100	60.19 *	96.930	41.08
10	97.560	106.7	97.580	111.4	97.660	109.3	97.520	93.04	97.090	67.91	96.920	46.54 *
11	97.560	104.9 *	97.560	110.6	97.660	111.6	97.510	92.48	97.070	65.40	96.920	41.80
12	97.550	103.8 *	97.550	110.2	97.660	116.6 *	97.510	99.33 *	97.040	65.25	96.910	40.16
13	97.540	105.8	97.610	115.4	97.660	111.9	97.540	102.6 *	97.020	63.78	96.910	40.10
14	97.540	98.99	97.610	114.0	97.650	109.3	97.540	97.62	97.010	53.11 *	96.900	45.15 *
15	97.510	98.40	97.630	113.0 *	97.650	108.0	97.540	96.03	96.990	62.51	96.890	38.18
16	97.510	98.43	97.630	116.5	97.650	105.9	97.540	92.98	96.980	50.86 *	96.890	38.07
17	97.490	95.25	97.630	114.5	97.640	105.9	97.510	87.79	96.970	60.05	96.890	38.48
18	97.480	96.07 *	97.630	114.7	97.630	106.7	97.500	88.01	96.970	59.19	96.880	38.02
19	97.470	94.19	97.630	112.9	97.650	115.4 *	97.490	97.15 *	96.970	58.16	96.860	36.86
20	97.440	92.12	97.650	117.4	97.690	120.5	97.470	85.72	96.970	56.70	96.860	36.28
21	97.430	91.46	97.650	116.9	97.690	118.8	97.470	85.32	96.960	56.87	96.880	43.79 *
22	97.420	91.42	97.650	115.4 *	97.700	121.7	97.410	77.99	96.930	46.19	96.900	38.13
23	97.410	90.68	97.650	118.7	97.700	118.0	97.390	84.12	96.930	47.25 *	96.900	38.28
24	97.400	88.54	97.650	117.3	97.700	118.4	97.380	83.26	96.930	46.30	97.020	57.83
25	97.390	86.67 *	97.660	118.6	97.680	114.8	97.360	82.41	96.950	47.63	97.020	59.02
26	97.370	90.55	97.670	120.0 *	97.680	119.0 *	97.350	82.68 *	96.950	47.73	97.020	59.19
27	97.350	88.31	97.740	124.3	97.670	114.0	97.340	81.61	96.950	48.05	97.010	57.86
28	97.360	91.45	97.760	128.1	97.700	121.1	97.320	79.76 *	96.950	47.61	97.000	52.35 *
29	97.440	97.81	97.760	129.0 *			97.290	78.10	96.940	44.44	96.990	56.32
30	97.520	104.2	97.760	125.3			97.240	77.35	96.940	47.96 *	96.980	55.71
31	97.520	104.1	97.760	124.0			97.220	75.90			96.970	54.74
Ten-Daily Mean												
I Ten-Daily	97.570	112.9	97.593	113.7	97.717	118.2	97.608	105.7	97.140	71.60	96.929	43.56
II Ten-Daily	97.509	98.79	97.613	113.9	97.654	111.2	97.515	93.98	96.999	59.50	96.891	39.31
III Ten-Daily	97.419	93.20	97.701	121.6	97.690	118.2	97.343	80.77	96.943	48.00	96.972	52.11
Monthly												
Min.	97.350	86.67	97.550	108.3	97.630	105.9	97.220	75.90	96.930	44.44	96.860	36.28
Max.	97.590	119.1	97.760	129.0	97.750	125.2	97.700	121.7	97.190	76.34	97.020	59.19
Mean	97.497	101.4	97.638	116.6	97.687	115.7	97.484	93.07	97.027	59.7	96.932	45.22

Peak Computed Discharge = 11999 cumecs on 13/07/2016 Corres. Water Level :108.29 m

Lowest Computed Discharge = 10.51 cumecs on 05/06/2016 Corres. Water Level :96.74 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

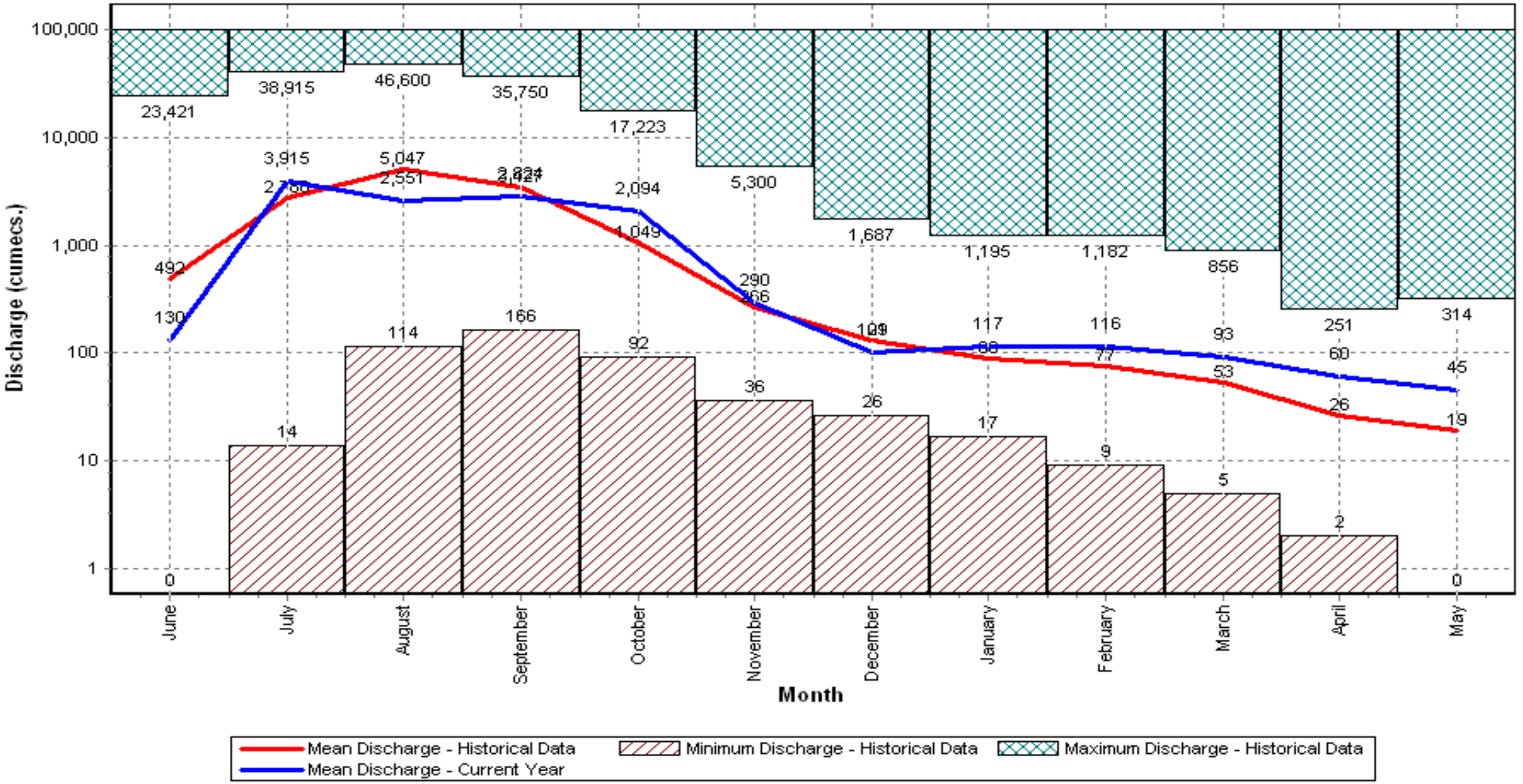
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : TEKRA (AGH00C4) **Data considered : 1964-2017** **Division : Wainganga Div., Nagpur**

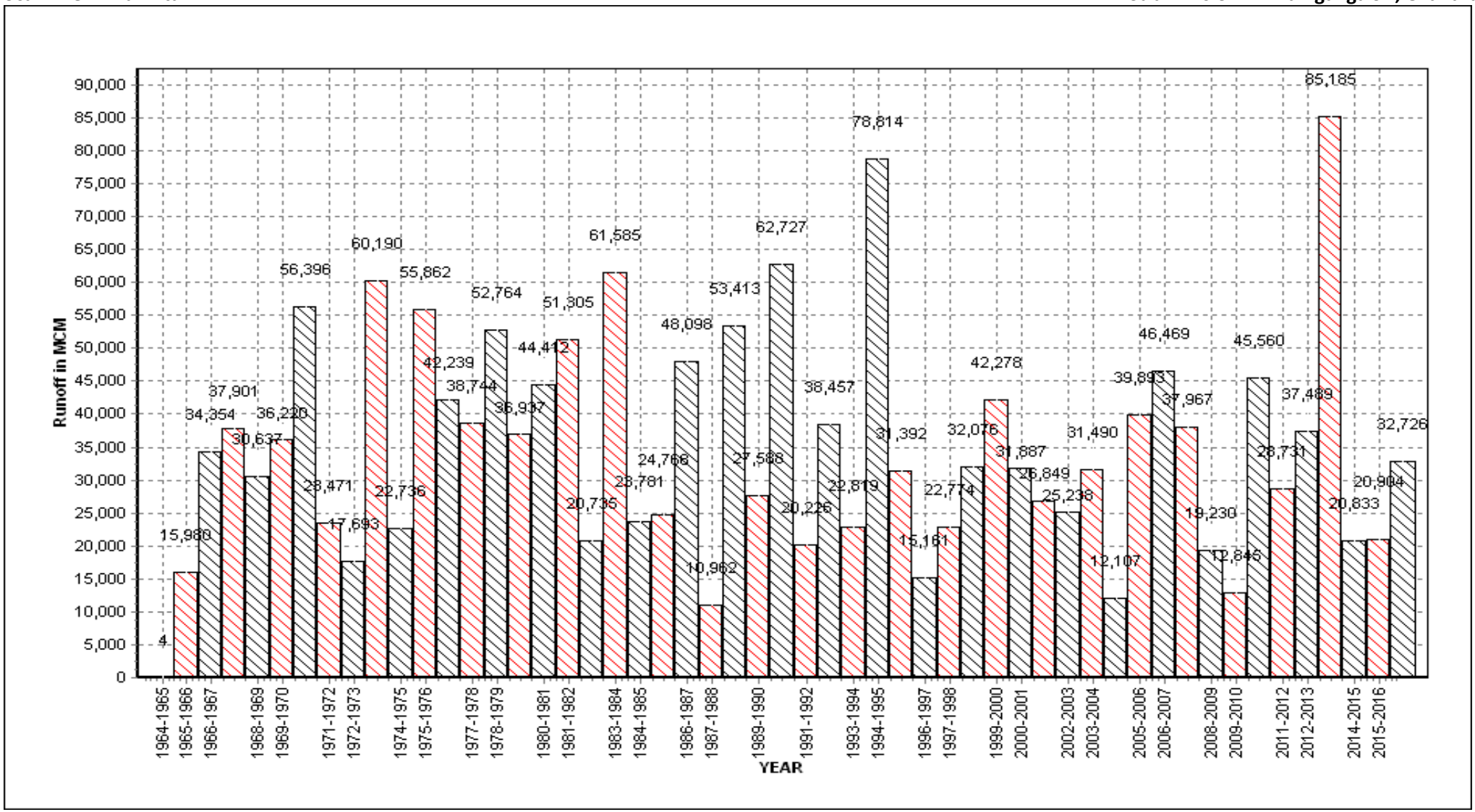
Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**



Annual Runoff Values for the period: 1964 - 2017

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**



Note: Missing values have not been considered while arriving at Annual Runoff

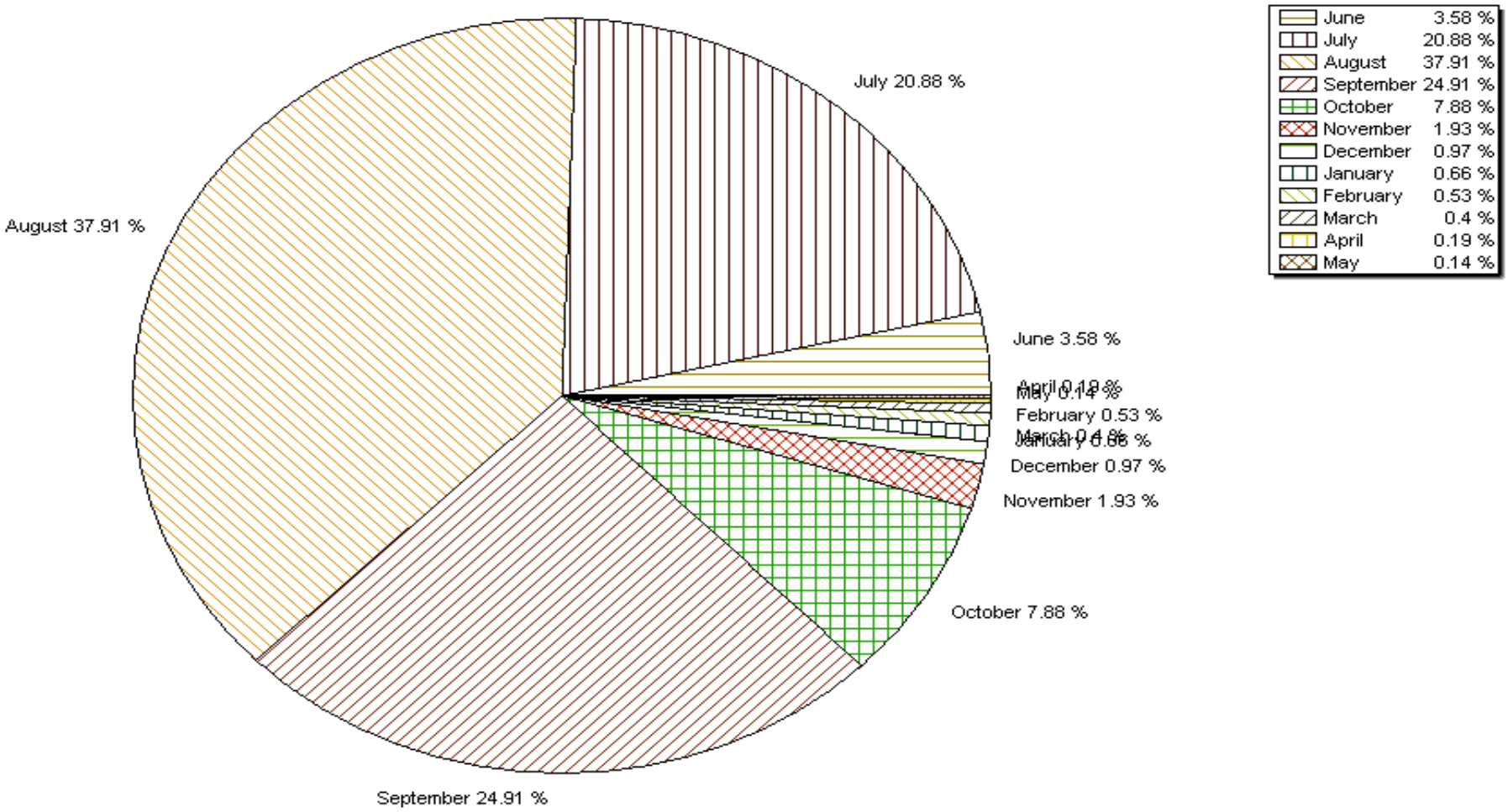
Monthly Average Runoff based on period : 1964-2016

Station Name : TEKRA (AGH00C4)

Local River : Pranhita

Division : Wainganga Div., Nagpur

Sub-Division : L Wainganga SD, Chandrapur



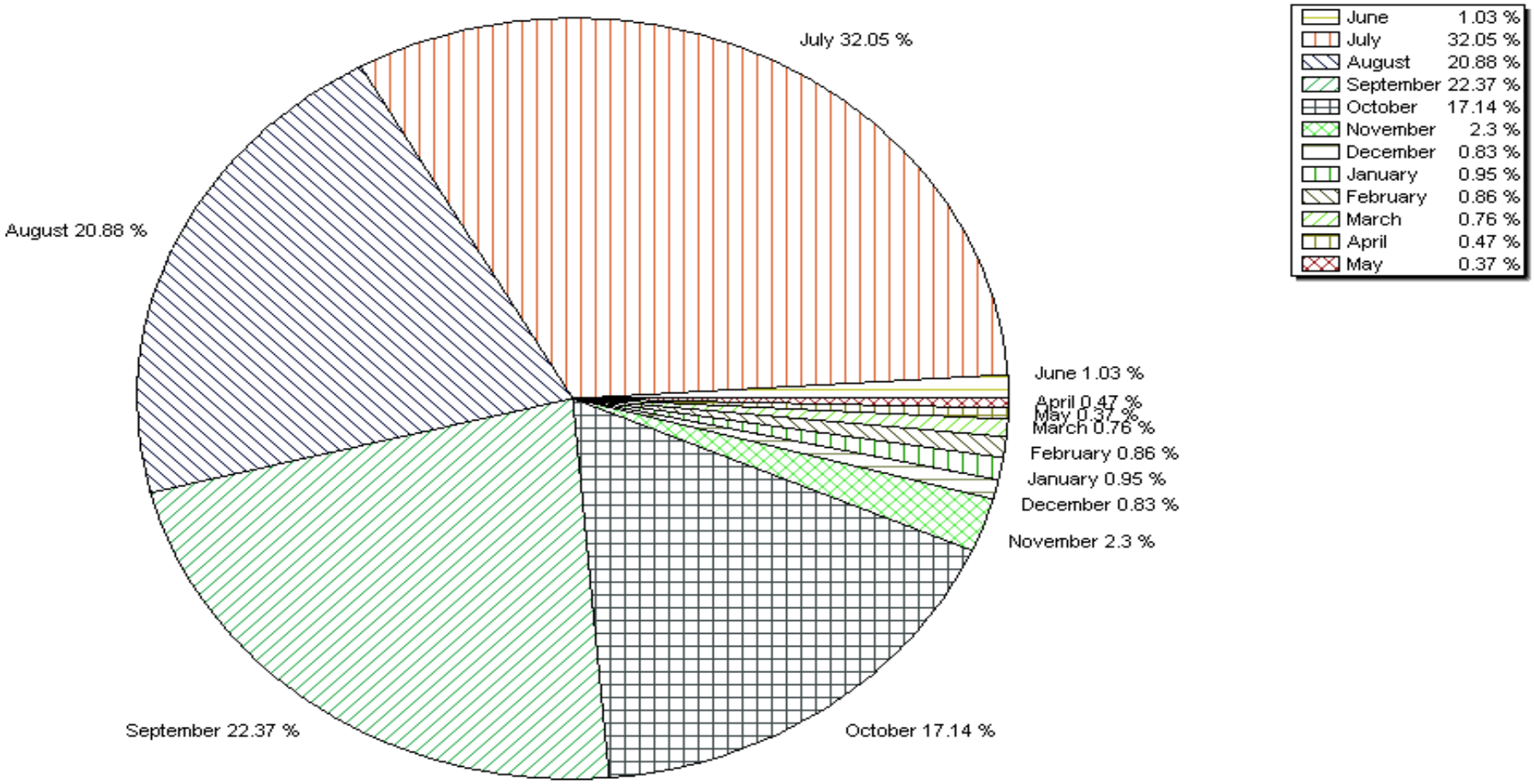
Monthly Runoff for the Year : 2016-2017

Station Name : TEKRA (AGH00C4)

Local River : Pranhita

Division : Wainganga Div., Nagpur

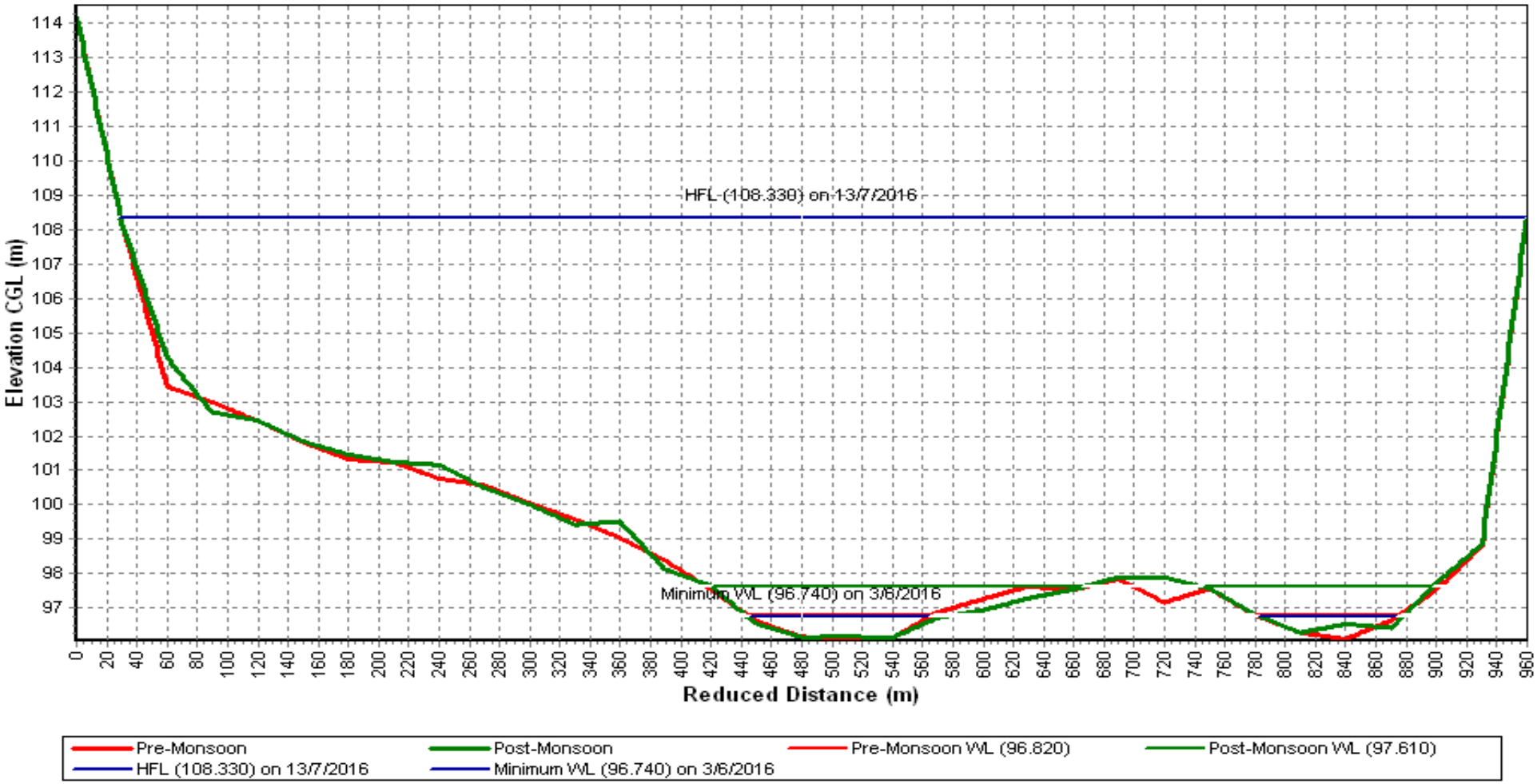
Sub-Division : L Wainganga SD, Chandrapur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

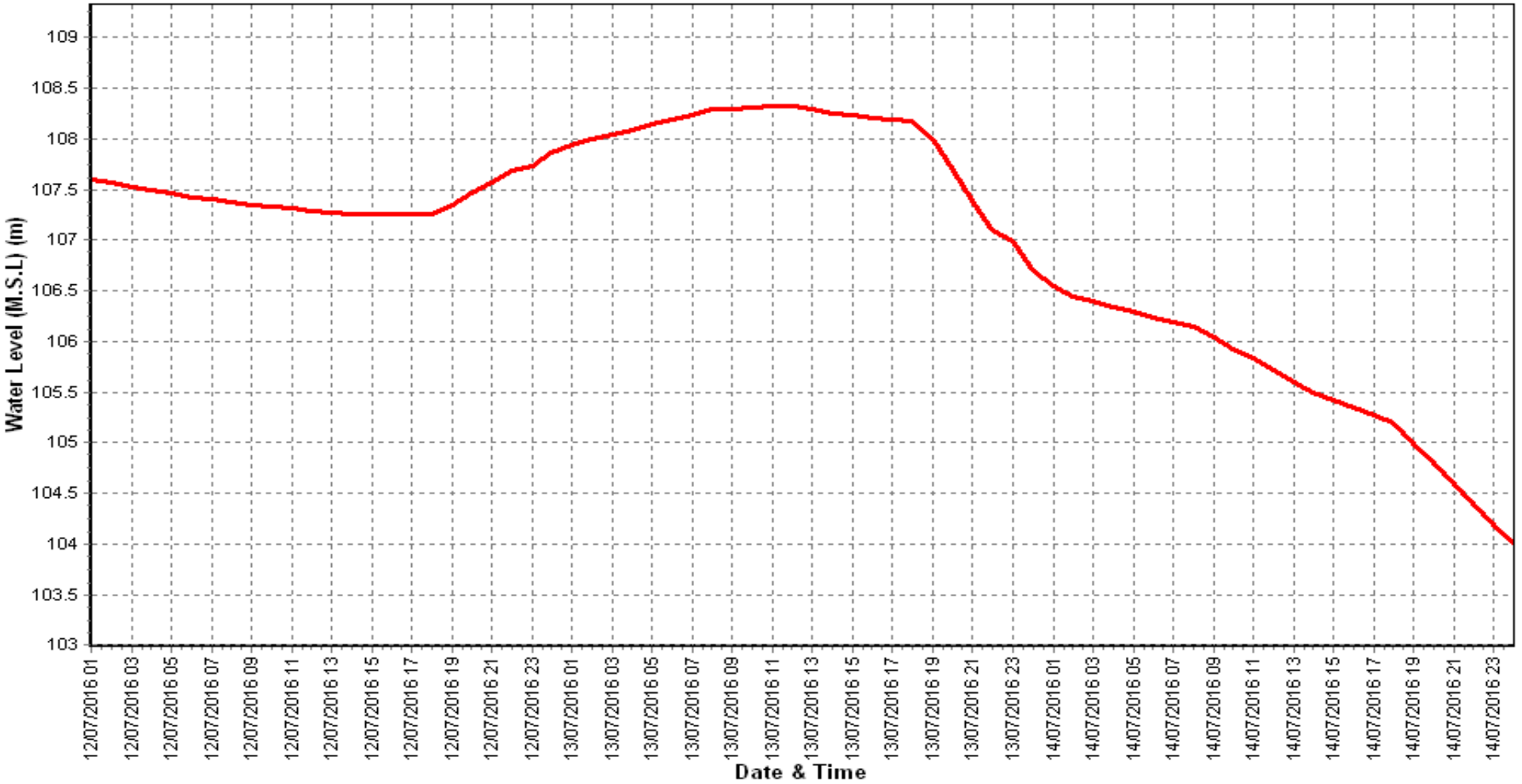
Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

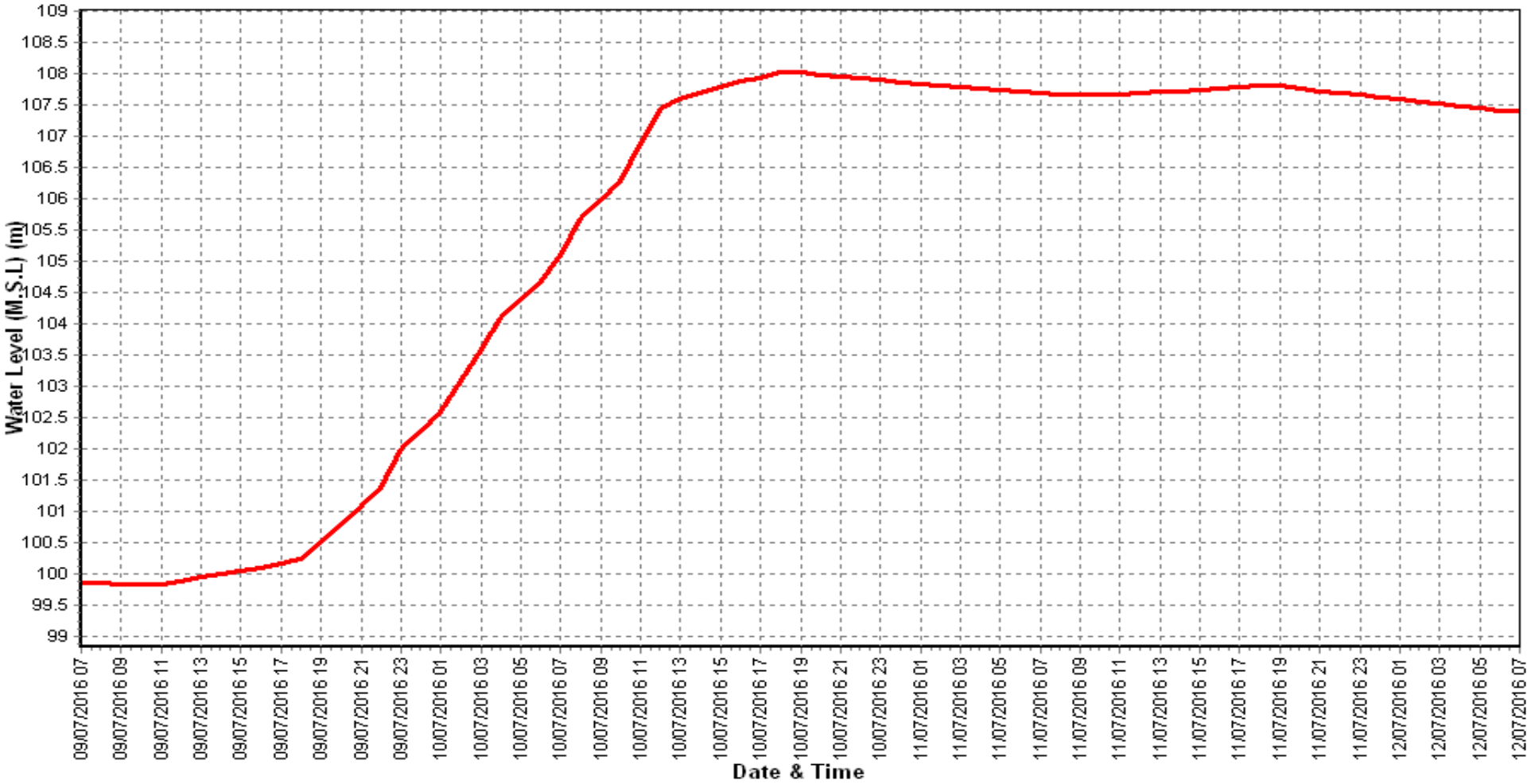


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**

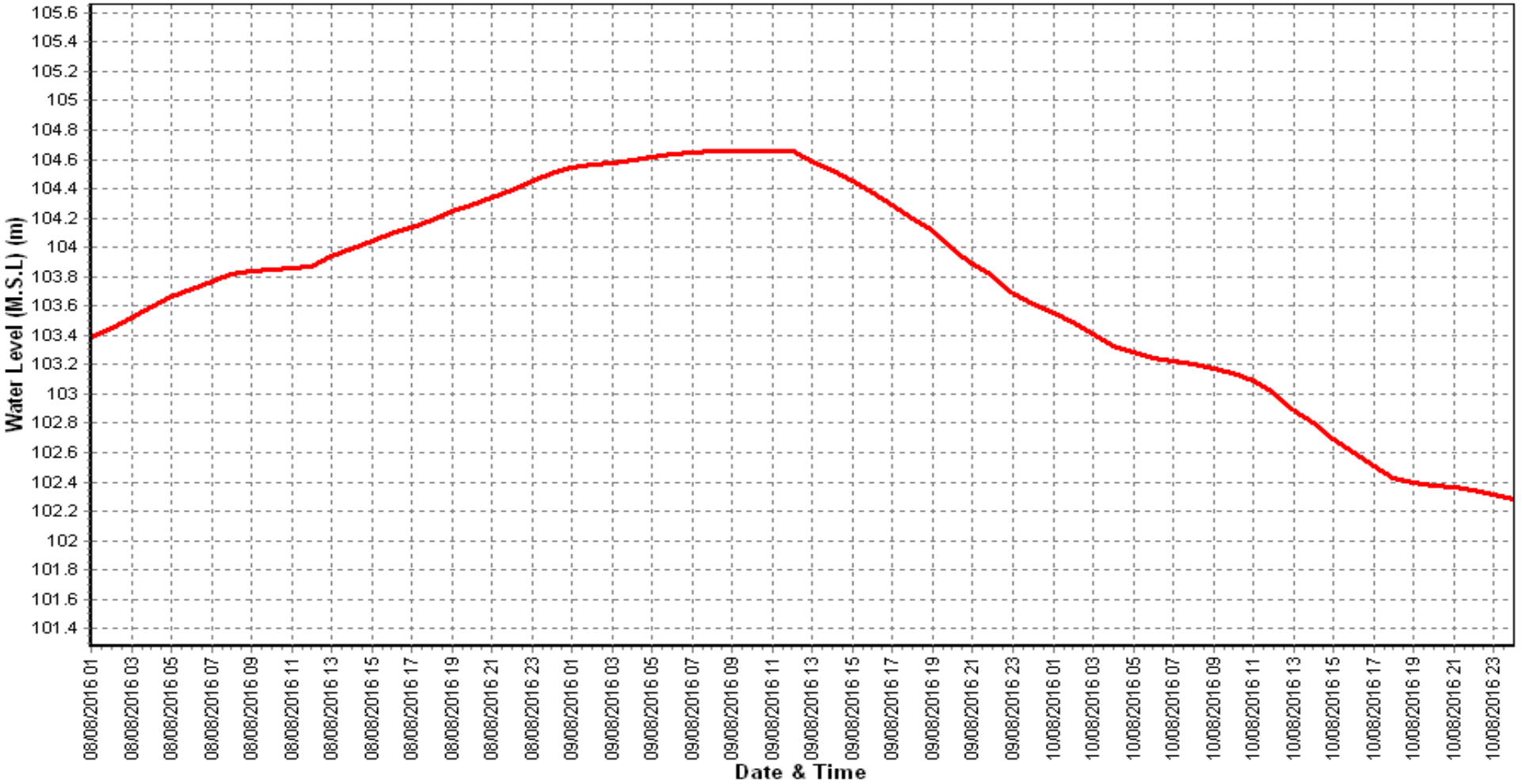


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : TEKRA (AGH00C4) **Division : Wainganga Div., Nagpur**

Local River : Pranhita **Sub-Division : L Wainganga SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: BHATPALLI**		**Code**	**: AGH10L0**	
State	: Telangana		District	Kumbrambhim	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wardha	
Sub-Sub Tributary	: -		Local River	: Peddavagu	
Division	: Wainganga Div., Nagpur		Sub-Division	: Wardha SD, Chandrapur	
Drainage Area	: 3100 Sq. Km.		Bank	: Left	
Latitude	: 19°19'50"		Longitude	: 79°30'14"	
Zero of Gauge (m)	: 156 (m.s.l)		12.08.1986		
	Opening Date		Closing Date		
Gauge	: 12.08.1986				
Discharge	: 01.10.1986		**HFL During 2016-17**	**: 162.350 Meter**	
			Corres.Discharge	**: 2864.032 Cumecs(Estimated)**	
Sediment	: 07.10.1988		**Date & Time of**	**: 12.07.2016**	
			Occurance	**: 01.00 Hrs.**	
Water Quality	: 04.01.1988				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	139.2	161.390	20.08.1987	0.000	159.855	30.05.1988
1988-1989	3750	168.500	02.10.1988	0.000		03.06.1988
1989-1990	1730	165.510	23.07.1989	0.850	159.610	02.06.1989
1990-1991	3810	168.430	29.08.1990	2.368	159.900	04.05.1991
1991-1992	1196	161.700	12.07.1991	0.680	158.695	29.05.1992
1992-1993	3058	164.528	19.06.1992	0.000	158.685	10.05.1993
1993-1994	373.2	161.530	01.08.1993	0.184	158.840	31.05.1994
1994-1995	2247	163.100	12.08.1994	0.000	158.800	02.06.1994
1995-1996	7862	167.330	20.10.1995	0.750	158.450	29.05.1996
1996-1997	1567	163.175	07.09.1996	0.626	158.920	31.05.1997
1997-1998	253.2	160.650	22.08.1997	0.220	159.150	27.05.1998
1998-1999	1360	162.705	11.08.1998	0.000	159.100	02.06.1998
1999-2000	581.2	161.520	18.06.1999	0.890	159.090	30.04.2000
2000-2001	6653	166.120	28.08.2000	0.550	158.750	27.05.2001
2001-2002	1151	162.310	14.06.2001	1.391	158.860	13.05.2002
2002-2003	402.4	161.420	25.08.2002	0.349	158.645	31.05.2003
2003-2004	687.5	161.820	08.08.2003	0.348	158.640	01.06.2003
2004-2005	218.7	160.585	11.09.2004	0.030	158.890	20.05.2005
2005-2006	1645	162.900	05.08.2005	0.000		14.06.2005
2006-2007	4008	165.750	05.08.2006	0.289	158.920	19.06.2006
2007-2008	1422	162.680	18.09.2007	0.517	158.580	26.05.2008
2008-2009	925.5	162.400	04.08.2008	0.475	158.580	01.06.2008

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2009-2010	201.5	160.200	01.09.2009	0.010	158.370	27.04.2010
2010-2011	1246	162.950	30.07.2010	0.000	158.380	12.06.2010
2011-2012	333.4	161.000	28.08.2011	0.311	158.500	28.05.2012
2012-2013	1087	162.020	23.07.2012	0.396	158.500	06.06.2012
2013-2014	2308	164.000	23.07.2013	1.346	158.510	03.06.2013
2014-2015	1536	162.300	08.09.2014	2.318	158.790	31.05.2015
2015-2016	951.7	161.950	17.09.2015	1.673	158.910	18.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	158.900	0.933 #	159.290	44.24 *	159.590	124.7 *	159.400	81.56 *	160.420	450.2 *	158.870	13.40
2	158.910	1.227 #	159.400	68.65 *	159.440	89.76 *	159.215	57.63	159.800	185.1 *	158.870	13.11
3	158.910	1.227 #	159.240	34.95 *	159.520	107.5 *	159.200	57.56	159.630	135.1 *	158.860	12.86
4	158.910	1.227 #	159.100	13.12	160.050	275.8 *	159.200	47.21 *	159.220	54.39	158.860	12.63
5	158.910	1.227 *	159.190	26.77 #	159.760	172.5 *	159.160	41.62 *	159.140	44.00	158.860	12.19
6	158.920	1.562 #	159.100	14.85 *	159.250	47.02	159.135	43.84	159.110	42.45	158.860	11.99 *
7	158.940	2.616	159.050	9.879	159.240	53.22 *	159.035	26.09	159.040	33.41	158.860	13.69
8	158.940	2.195	159.030	7.744	159.140	37.69	158.910	13.15	159.010	24.19 #	158.860	13.39
9	158.930	2.053	159.090	13.12	159.120	33.94	158.900	12.56	161.250	1034 *	158.860	12.72
10	158.930	2.039	161.600	1753 *	159.080	30.28	158.900	12.29	159.800	185.1 *	158.850	10.99
11	158.930	2.013	160.400	547.5 *	159.030	24.57	158.930	17.07 *	159.330	68.30 *	158.850	11.50
12	158.920	1.562 *	161.900	2164 *	159.010	22.23	159.020	27.13	159.370	75.71 *	158.850	11.34
13	158.930	2.178	160.130	371.9 *	159.010	21.52	159.070	30.51 *	159.080	39.22	158.850	11.34 *
14	158.950	2.351	159.385	60.20	159.020	25.19 *	159.125	44.89	159.000	23.22 #	158.850	11.34 *
15	158.940	2.324	159.250	41.35	159.030	26.21 *	159.100	39.74	158.970	20.45 #	158.840	11.68
16	158.930	1.833	159.320	43.05	159.030	26.21 #	159.030	26.88	158.970	20.45 *	158.850	11.72
17	158.930	1.816	159.200	28.32 *	158.980	17.34	159.020	25.94	158.940	20.69	158.850	10.74
18	158.970	2.967	159.150	24.27	158.950	15.42	159.000	23.22 *	158.920	19.14	158.860	10.91
19	158.940	2.357 *	159.250	39.88	158.930	14.27	158.950	18.71	159.600	127.2 *	158.850	10.70
20	158.930	2.042	159.180	29.37	158.920	13.88	159.010	24.09	159.010	24.19 #	158.860	11.99 *
21	158.930	1.971	159.190	30.22	158.910	15.51 *	158.960	20.16	159.460	81.96	158.870	12.37
22	158.930	1.965	159.740	166.4 *	158.910	12.81	159.380	66.58	159.485	76.43	158.870	12.53
23	158.920	1.921	161.000	828.3 *	158.910	13.21	159.420	71.32	159.350	71.95 *	158.860	10.94
24	158.990	4.546	159.550	114.7 *	158.910	12.80	159.410	69.33	158.910	15.51 #	158.850	10.54
25	159.140	19.70 #	159.910	222.4 *	158.970	21.46	161.530	1296 *	158.890	16.13	158.850	10.44
26	159.030	8.026 *	160.250	363.9 *	158.990	22.55	160.460	472.0 *	158.890	15.58	158.850	10.69
27	159.000	5.582	160.370	423.7 *	159.160	44.28	159.690	151.7 *	158.890	15.21	158.850	11.34 *
28	159.000	5.468	159.570	119.6 *	159.250	54.79 *	159.490	100.7 *	158.870	12.31	158.840	10.88
29	159.450	81.56 *	159.540	112.3 *	159.180	51.13	159.310	69.91	158.870	14.20	158.840	10.85
30	159.440	78.89 *	159.890	215.4 *	159.220	57.48	159.220	54.22	158.870	12.65 *	158.840	10.30
31			160.070	284.0 *	159.260	62.06			158.870	13.47		
en-Daily Mean												
I Ten-Daily	158.920	1.631	159.409	198.6	159.419	97.25	159.106	39.35	159.642	218.8	158.861	12.70
II Ten-Daily	158.937	2.145	159.717	335.0	158.991	20.68	159.025	27.82	159.119	43.86	158.851	11.33
III Ten-Daily	159.083	20.96	159.916	261.9	159.061	33.46	159.687	237.2	159.032	31.40	158.852	11.09
Monthly												
Min.	158.900	0.933	159.030	7.744	158.910	12.80	158.900	12.29	158.870	12.31	158.840	10.30
Max.	159.450	81.56	161.900	2164	160.050	275.8	161.530	1296	161.250	1034	158.870	13.69
Mean	158.980	8.246	159.688	265.1	159.154	49.92	159.273	101.4	159.257	95.86	158.855	11.7

Annual Runoff in MCM = 1490 Annual Runoff in mm = 481

Peak Observed Discharge = 81.96 cumecs on 21/10/2016 Corres. Water Level :159.46 m

Lowest Observed Discharge = 0.933 cumecs on 01/06/2016 Corres. Water Level :158.9 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	158.840	10.18	158.810	7.137 *	158.790	4.957	158.760	4.278	158.760	3.814	158.730	1.860
2	158.840	10.00	158.810	7.207	158.790	5.398	158.760	4.055	158.760	3.523 *	158.730	1.729
3	158.840	9.962	158.810	7.174	158.790	5.370	158.770	4.775	158.760	3.826	158.740	2.590
4	158.840	10.06 *	158.810	6.975	158.790	5.414	158.770	4.708	158.750	2.853	158.740	2.575
5	158.830	8.790	158.810	6.923	158.790	5.511 *	158.770	4.128 *	158.750	3.025	158.740	2.744
6	158.830	8.717	158.810	6.987	158.810	6.604	158.770	4.518	158.760	4.355	158.740	2.627
7	158.830	8.563	158.810	6.993	158.800	6.529	158.780	4.774	158.760	4.192	158.740	2.480 *
8	158.830	8.666	158.800	6.294 *	158.790	4.688	158.790	5.596	158.760	4.012	158.740	2.831
9	158.830	8.733	158.800	6.387	158.790	4.549	158.780	5.032	158.760	3.523 *	158.740	2.834
10	158.830	8.570	158.800	6.402	158.790	5.272	158.780	4.975	158.740	2.330	158.740	2.480 *
11	158.830	9.018 *	158.800	6.453	158.790	5.266	158.770	4.648	158.740	2.263	158.750	2.892
12	158.830	9.018 *	158.800	6.143	158.790	5.511 *	158.770	4.128 *	158.740	2.283	158.750	2.950
13	158.830	8.632	158.800	6.208	158.800	5.241	158.760	3.523 *	158.740	2.280	158.750	2.909
14	158.830	8.731	158.800	6.164	158.790	5.173	158.760	4.027	158.740	2.480 *	158.740	2.480 *
15	158.830	8.599	158.800	6.294 *	158.790	5.117	158.750	2.975 #	158.740	2.146	158.740	2.765
16	158.830	8.702	158.800	6.418	158.790	5.252	158.750	2.975 #	158.740	2.480 *	158.740	2.734
17	158.830	8.680	158.810	6.410	158.780	5.070	158.820	7.747	158.740	2.096	158.730	1.992
18	158.820	8.046 *	158.800	5.727	158.780	5.079	158.820	7.701	158.740	2.101	158.730	1.934
19	158.820	8.049	158.800	5.723	158.780	4.790 *	158.800	6.294 *	158.740	1.972	158.720	1.468
20	158.820	8.088	158.800	5.746	158.770	4.916	158.780	5.256	158.740	1.955	158.720	1.512
21	158.810	7.436	158.800	5.744	158.770	4.599	158.770	5.008	158.740	1.980	158.720	1.646 *
22	158.810	7.391	158.800	6.294 *	158.770	4.673	158.770	4.723	158.740	1.953	158.710	1.312
23	158.810	7.548	158.790	5.299	158.770	4.634	158.760	3.984	158.730	2.038 *	158.710	1.299
24	158.810	7.551	158.790	5.315	158.780	5.148	158.750	3.450	158.730	1.766	158.710	1.300
25	158.810	7.137 *	158.790	4.669	158.770	4.914	158.750	3.428	158.730	1.765	158.710	1.302
26	158.810	7.591	158.790	5.511 *	158.770	4.128 *	158.750	2.975 *	158.720	1.706	158.710	1.262
27	158.810	7.606	158.790	4.702	158.760	4.432	158.760	3.741	158.720	1.705	158.710	1.305
28	158.810	7.424	158.790	4.911	158.760	4.269	158.770	4.128 *	158.720	1.701	158.730	2.038 *
29	158.810	7.442	158.790	5.511 *			158.760	3.987	158.730	1.812	158.760	4.034
30	158.810	7.325	158.790	5.030			158.760	4.181	158.730	2.038 *	158.740	2.196
31	158.810	7.313	158.790	5.122			158.760	3.986			158.720	1.512
en-Daily Mea												
I Ten-Daily	158.834	9.224	158.807	6.848	158.793	5.429	158.773	4.684	158.756	3.545	158.738	2.475
II Ten-Daily	158.827	8.556	158.801	6.129	158.786	5.142	158.778	4.927	158.740	2.206	158.737	2.364
III Ten-Daily	158.810	7.433	158.792	5.283	158.769	4.600	158.760	3.963	158.729	1.846	158.721	1.746
Monthly												
Min.	158.810	7.137	158.790	4.669	158.760	4.128	158.750	2.975	158.720	1.701	158.710	1.262
Max.	158.840	10.18	158.810	7.207	158.810	6.604	158.820	7.747	158.760	4.355	158.760	4.034
Mean	158.823	8.373	158.800	6.06	158.784	5.089	158.770	4.507	158.742	2.532	158.732	2.18

Peak Computed Discharge = 2164 cumecs on 12/07/2016 Corres. Water Level :161.9 m

Lowest Computed Discharge = 1.227 cumecs on 05/06/2016 Corres. Water Level :158.91 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

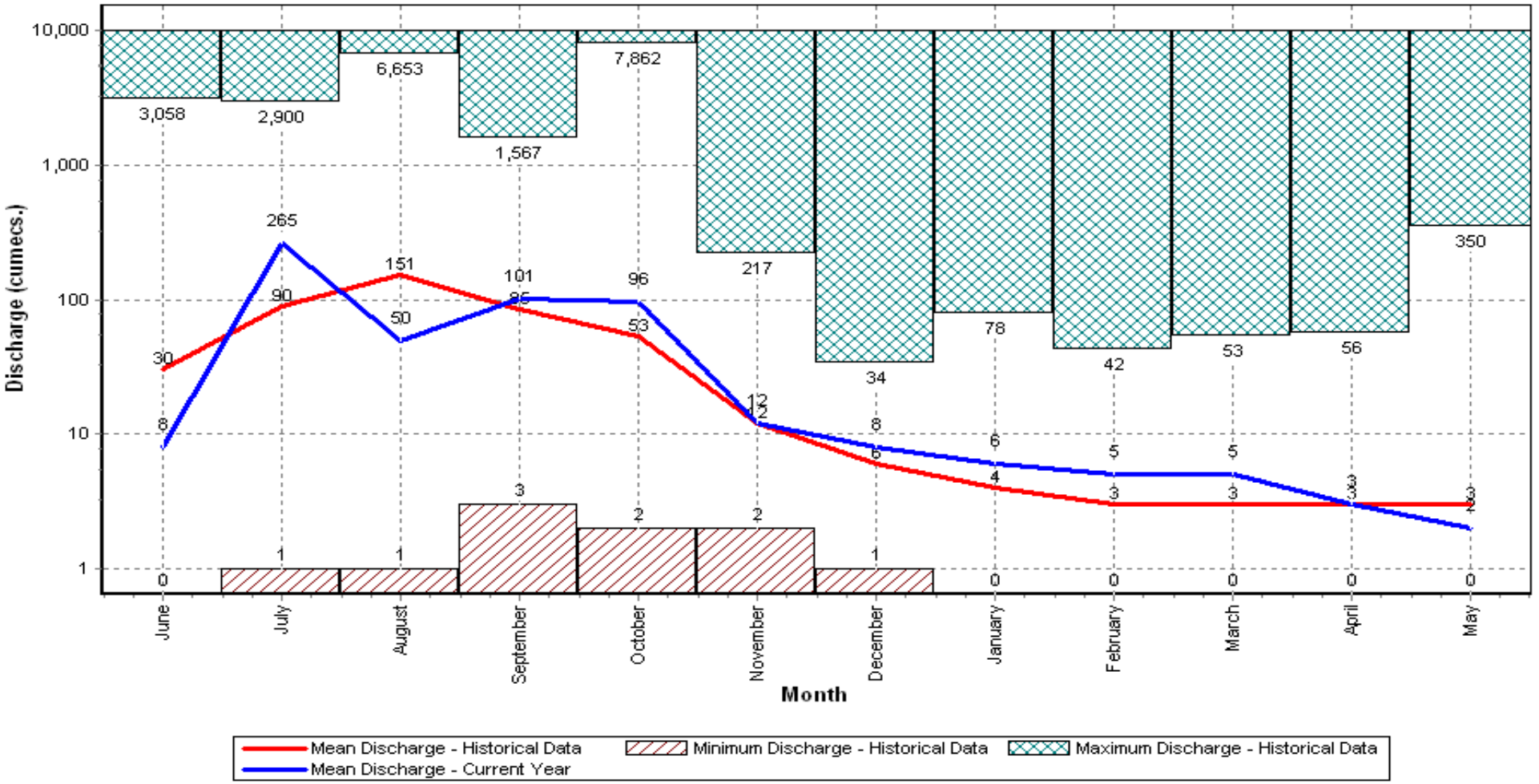
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : BHATPALLI (AGH10L0) | **Data considered : 1987-2017** | **Division : Wainganga Div., Nagpur**

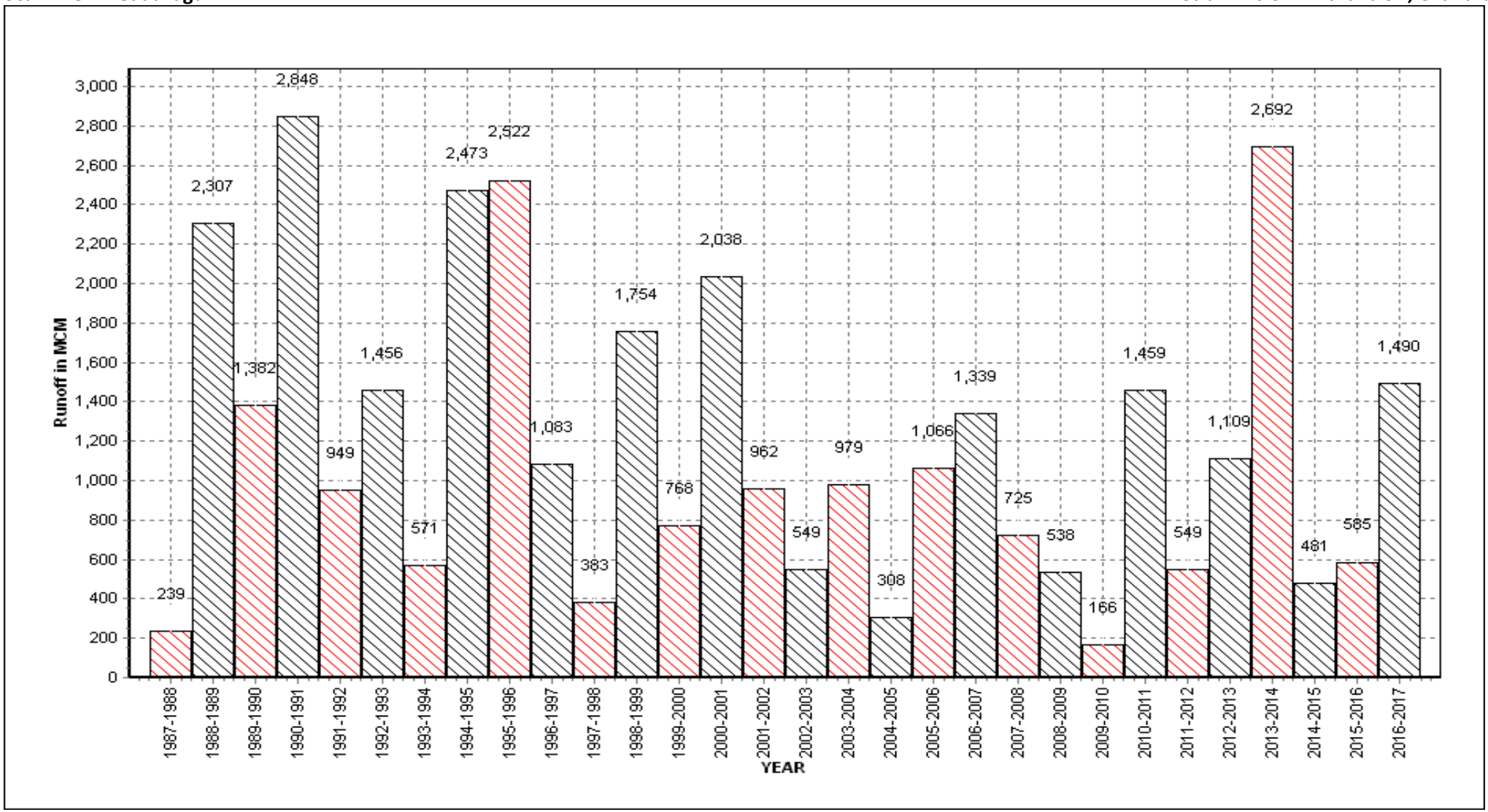
Local River : Peddavagu | **Sub-Division : Wardha SD, Chandrapur**



Annual Runoff Values for the period: 1987 - 2017

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**

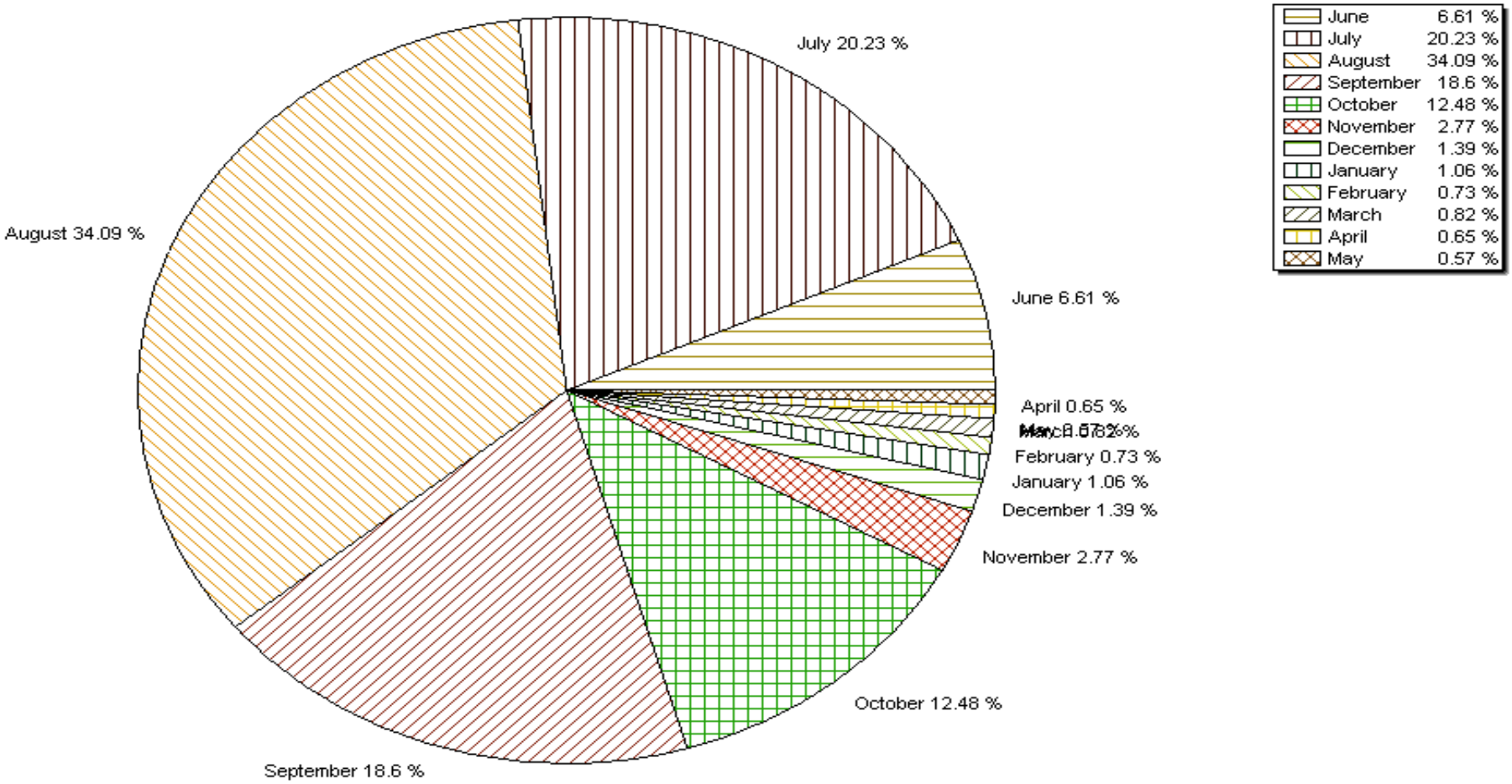


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1987-2016

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**



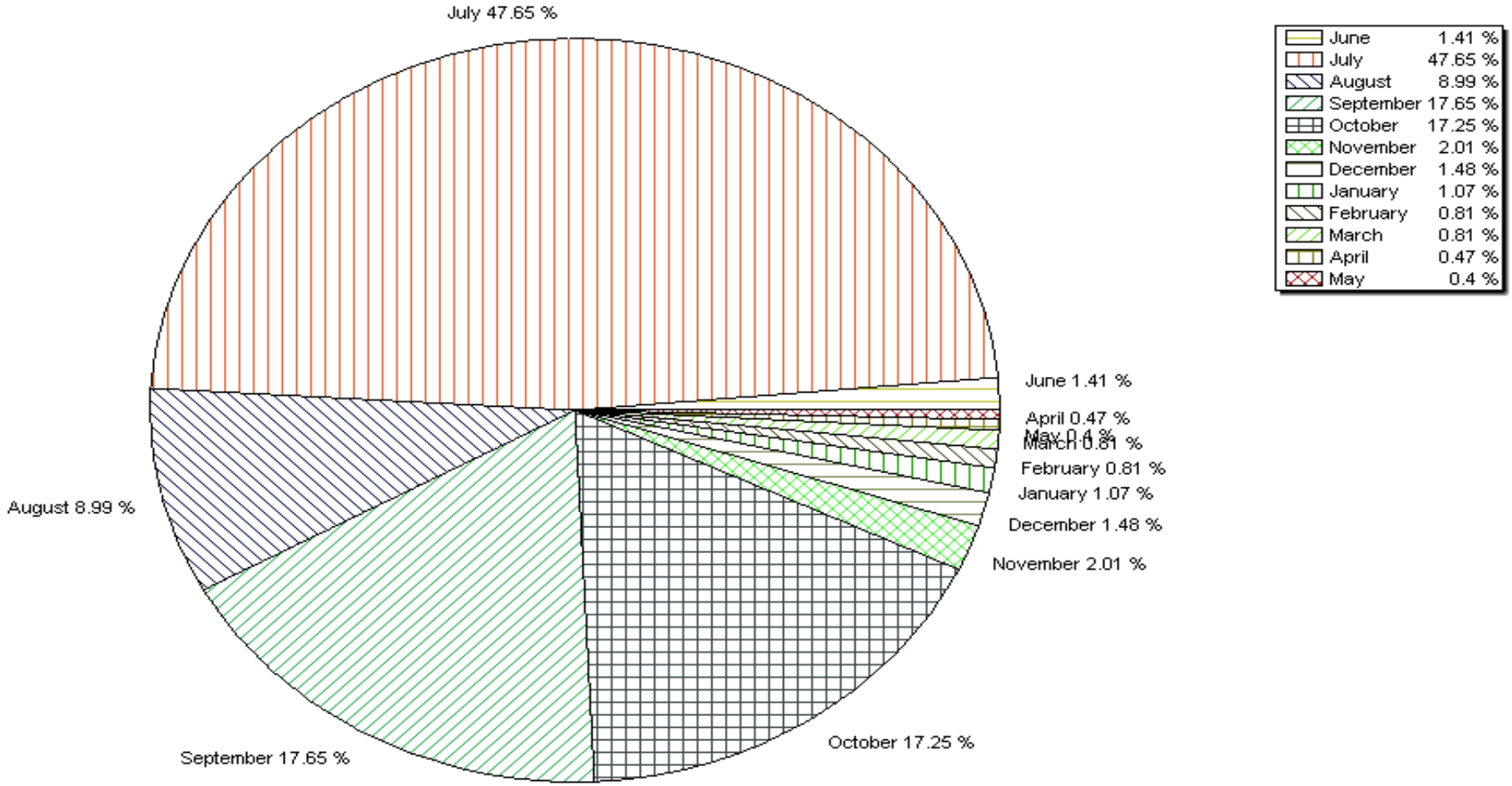
Monthly Runoff for the Year : 2016-2017

Station Name : BHATPALLI (AGH10L0)

Division : Wainganga Div., Nagpur

Local River : Peddavagu

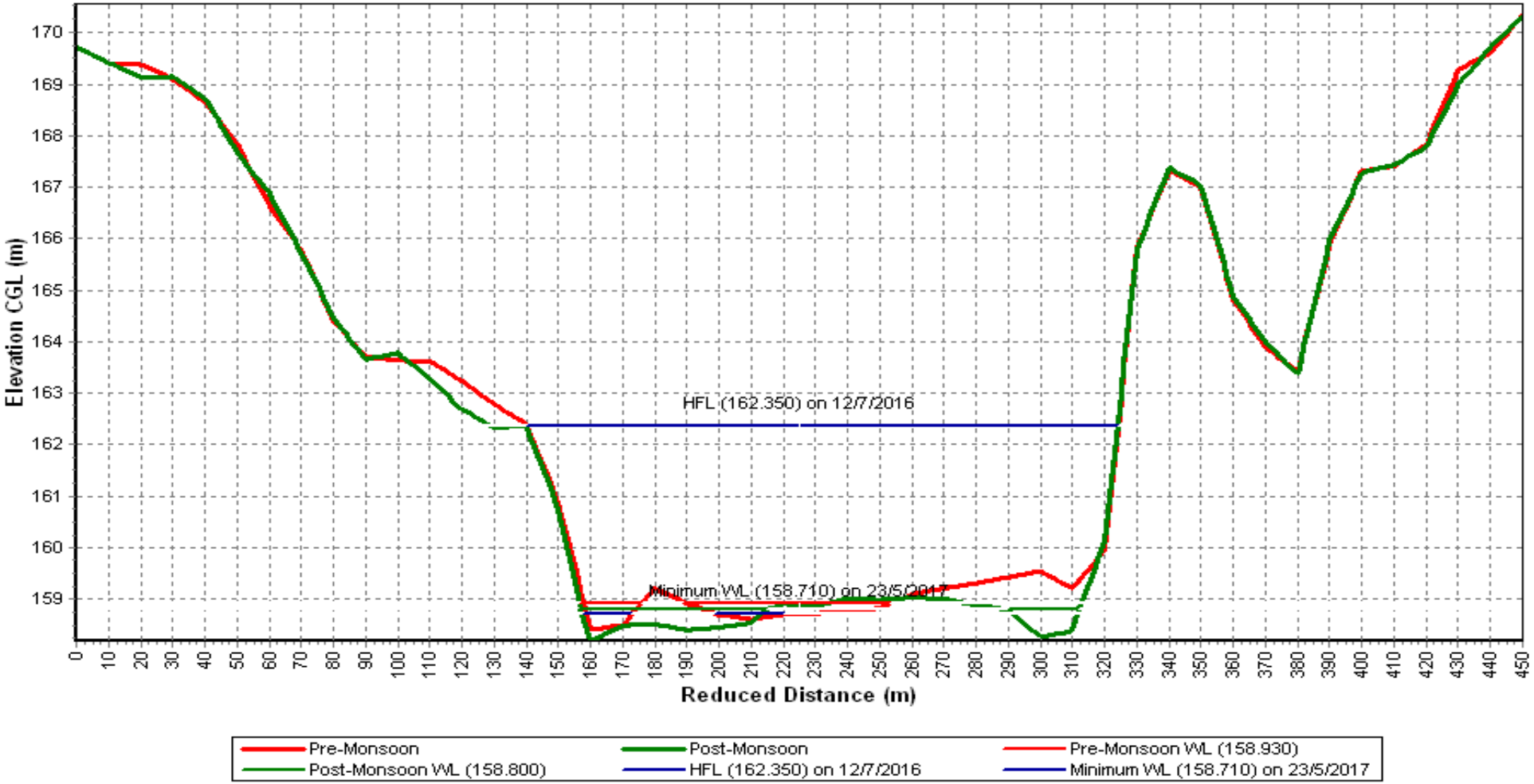
Sub-Division : Wardha SD, Chandrapur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

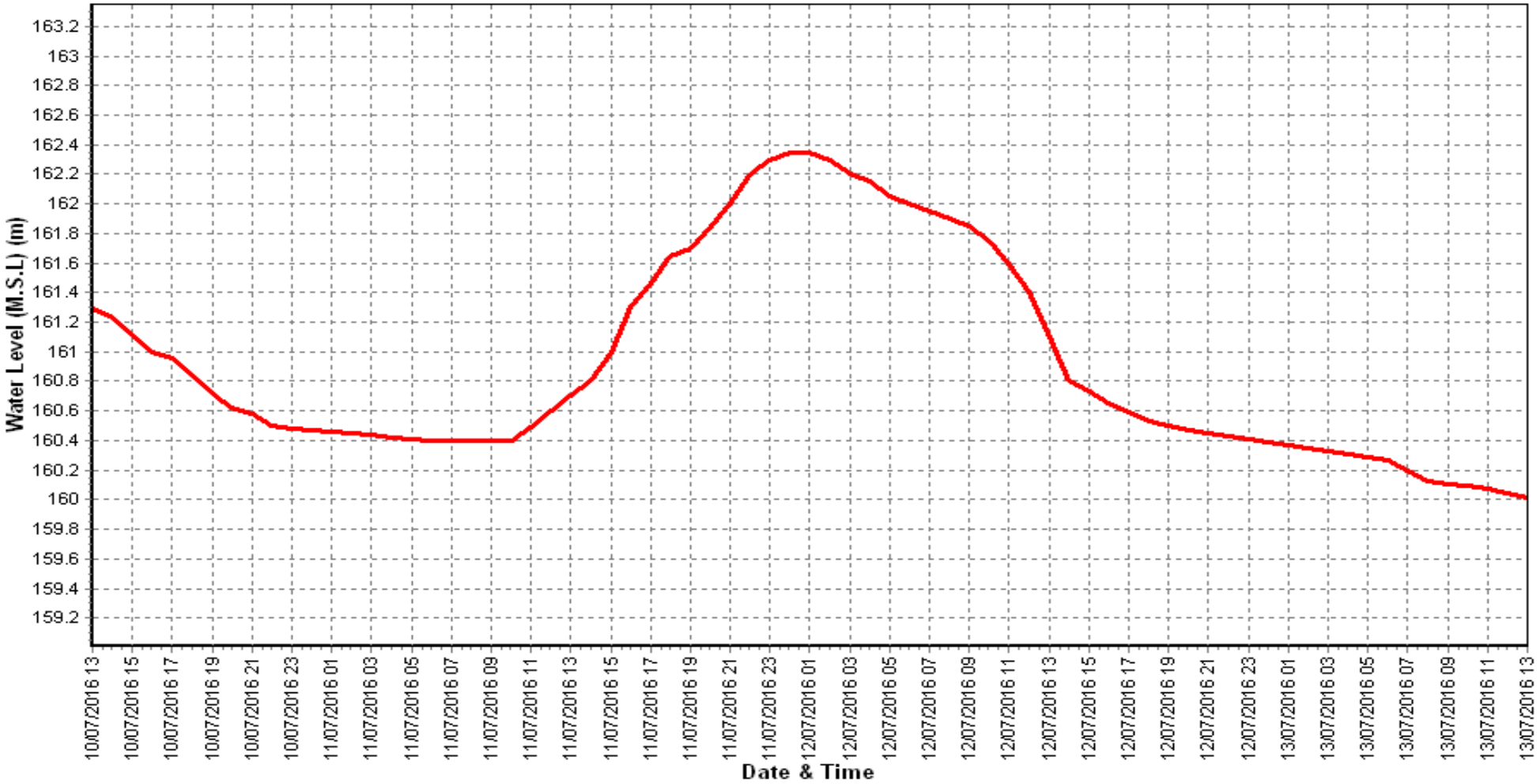
Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**

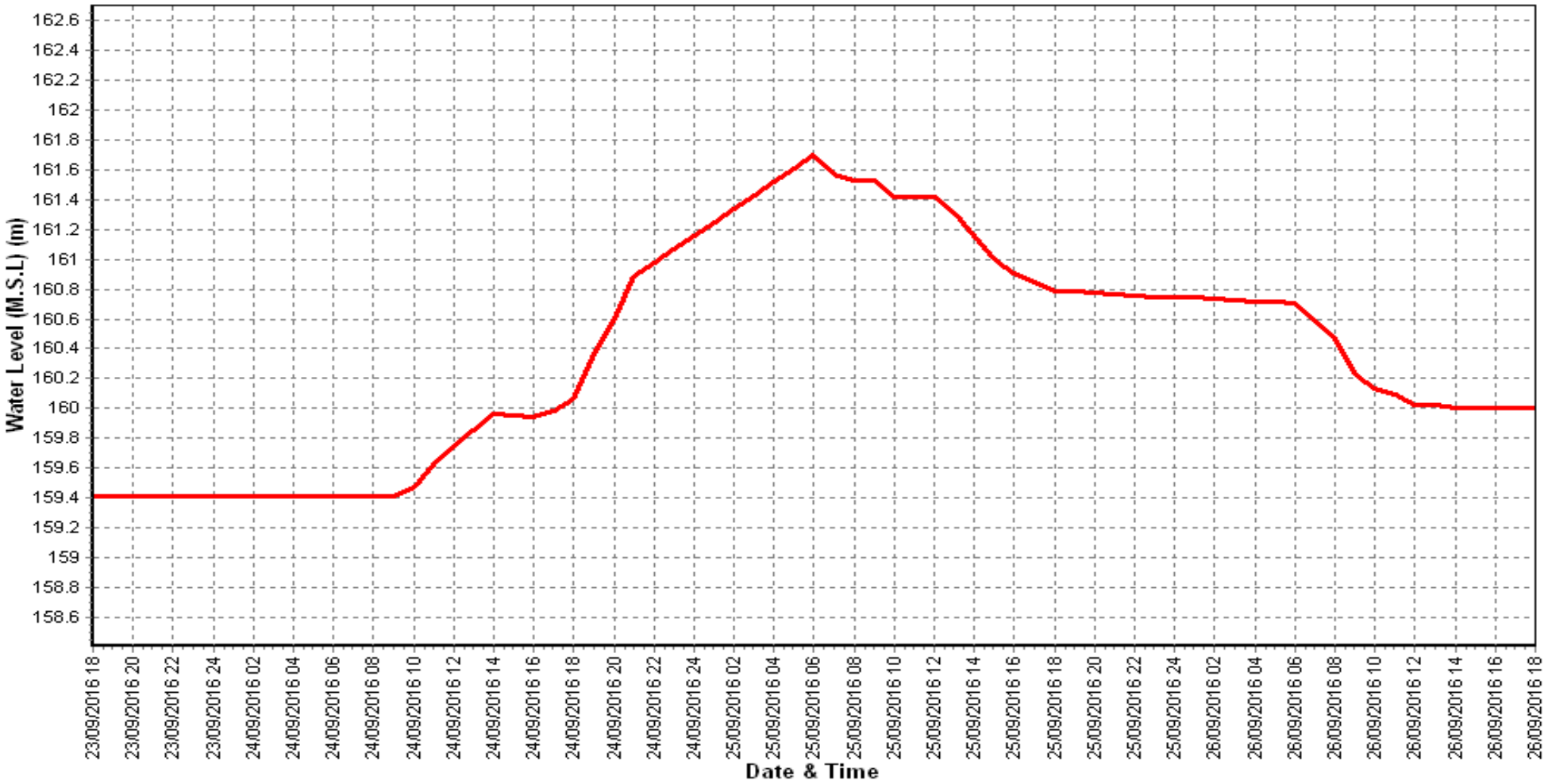


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**

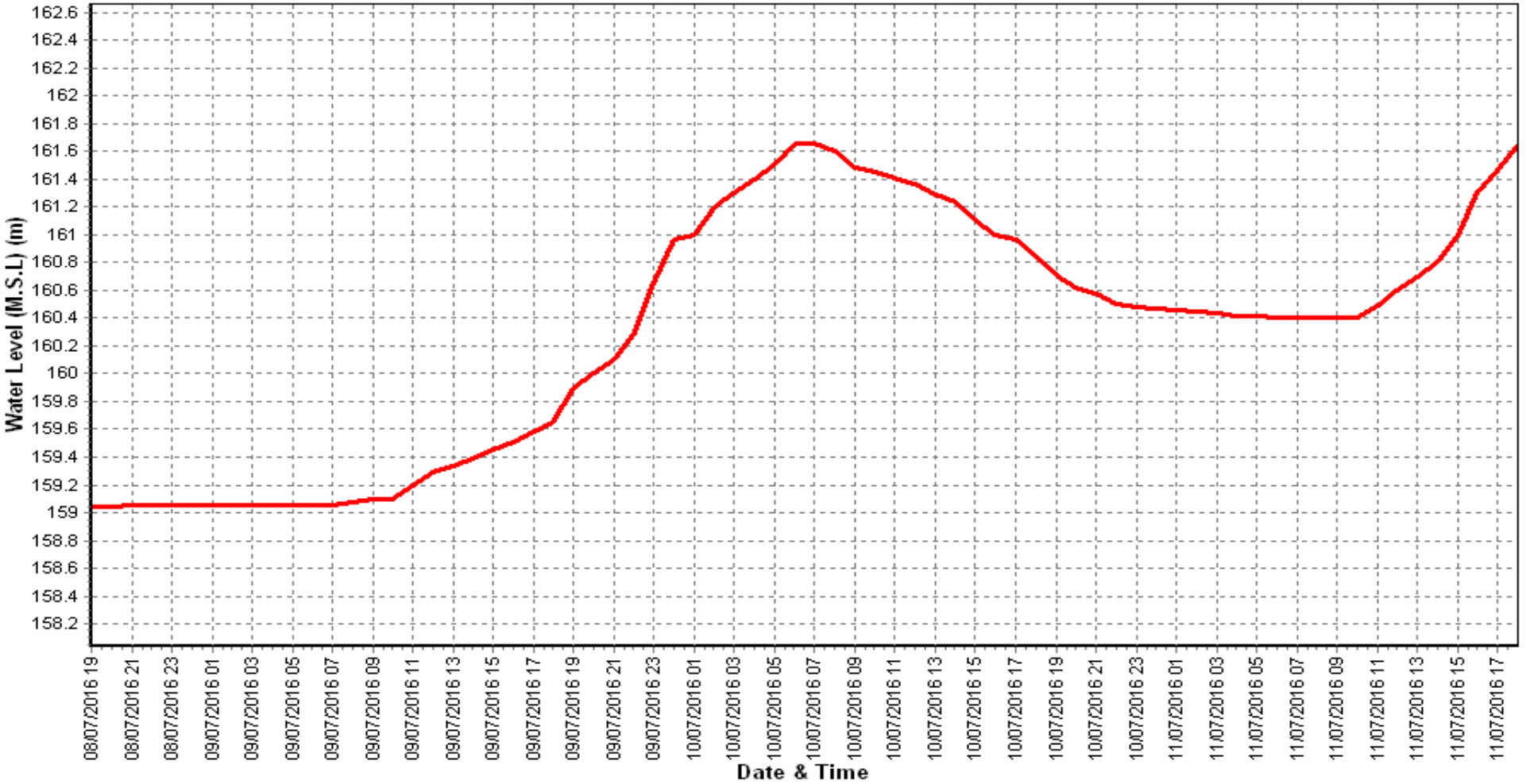


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : BHATPALLI (AGH10L0) **Division : Wainganga Div., Nagpur**

Local River : Peddavagu **Sub-Division : Wardha SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: SAKMUR**		**Code**	**: AGH30B6**	
State	: Maharashtra		District	Chandrapur	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wardha	
Sub-Sub Tributary	: -		Local River	: Wardha	
Division	: Wainganga Div., Nagpur		Sub-Division	: Wardha SD, Chandrapur	
Drainage Area	: 47500 Sq. Km.		Bank	: Left	
Latitude	: 19°33'41"		Longitude	: 79°36'48"	
Zero of Gauge (m)	: 145.71 (m.s.l) 143 (m.s.l) 148.5 (m.s.l)		23.06.1964 16.06.2003 21.01.2006	- 15.06.2003 - 20.01.2006	
	Opening Date		Closing Date		
Gauge	: 23.06.1964				
Discharge	: 01.02.1968		**HFL During 2016-17**	**: 158.340 Meter**	
			Corres.Discharge	**: 8184.277 Cumecs(Estimated)**	
Sediment	: 01.06.2014		**Date & Time of**	**: 13.07.2016**	
			Occurance	**: 14.00 Hrs.**	
Water Quality	: 01.06.2014				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1968-1969	4385	152.810	05.08.1968	0.000	146.120	04.05.1969
1969-1970	7213	154.405	08.09.1969	0.000	146.090	01.06.1969
1970-1971	15204	158.020	21.08.1970	1.396	146.215	03.06.1970
1971-1972	4950	152.933	25.06.1971	0.100	145.960	31.05.1972
1972-1973	5225	152.645	29.06.1972	0.000	145.905	19.06.1972
1973-1974	8941	155.390	11.07.1973	0.015	145.765	02.06.1973
1974-1975	4900	153.380	13.08.1974	0.200	145.760	17.05.1975
1975-1976	10691	156.170	06.09.1975	1.300	145.845	06.06.1975
1976-1977	13514	157.380	23.07.1976	1.400	145.995	08.06.1976
1977-1978	10000	155.990	04.09.1977	1.500	146.035	29.05.1978
1978-1979	13380	156.490	14.07.1978	3.820	146.100	14.05.1979
1979-1980	13170	157.540	07.08.1979	1.000	146.270	29.05.1980
1980-1981	9285	156.138	22.08.1980	1.000	146.265	03.06.1980
1981-1982	11254	157.295	11.08.1981	1.500	146.060	06.06.1981
1982-1983	2650	151.870	25.07.1982	1.800	145.970	31.05.1983
1983-1984	17350	158.310	14.08.1983	0.500	146.210	31.05.1984
1984-1985	2355	150.455	20.08.1984	0.200	146.100	20.05.1985
1985-1986	5260	153.060	28.06.1985	0.200	146.090	02.06.1985
1986-1987	21040	159.960	14.08.1986	1.000	146.160	01.06.1986
1987-1988	1094	149.535	22.08.1987	0.500	146.180	31.05.1988

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1988-1989	8904	156.205	04.10.1988	0.500	146.180	01.06.1988
1989-1990	7528	155.930	02.09.1989	2.828	146.475	05.06.1989
1990-1991	16000	158.330	18.08.1990	5.700	146.420	31.05.1991
1991-1992	7597	155.290	17.08.1991	1.170	146.130	26.05.1992
1992-1993	11761	156.560	23.08.1992	3.800	146.300	27.05.1993
1993-1994	5882	152.690	31.07.1993	0.221	146.130	31.05.1994
1994-1995	15027	157.920	14.07.1994	0.385	146.130	02.06.1994
1995-1996	13226	157.330	03.09.1995	3.500	146.260	14.05.1996
1996-1997	2931	151.670	29.08.1996	1.950	146.280	31.05.1997
1997-1998	5033	153.005	29.08.1997	1.240	146.220	06.06.1997
1998-1999	4072	152.230	04.07.1998	3.840	146.240	17.05.1999
1999-2000	11004	154.810	12.08.1999	2.550	146.310	05.05.2000
2000-2001	21518	157.860	21.07.2000	5.025	146.355	30.05.2001
2001-2002	16006	156.320	16.06.2001	0.000		27.01.2002
2002-2003	8123	157.160	26.08.2002	0.000		02.06.2002
2003-2004	8711	152.550	24.08.2003	1.303	146.250	12.06.2003
2004-2005	2510	150.410	07.08.2004	0.000	145.490	30.05.2005
2005-2006	9375	154.850	30.07.2005	3.278	145.410	20.06.2005
2006-2007	14335	161.950	08.08.2006	1.989	150.150	28.05.2007
2007-2008	6720	157.920	08.09.2007	1.251	150.060	30.05.2008
2008-2009	4662	157.470	06.08.2008	0.540	149.830	31.05.2009
2009-2010	754.8	152.865	04.09.2009	0.015	149.900	21.04.2010
2010-2011	10662	158.600	08.08.2010	0.000	149.740	20.06.2010
2011-2012	5500	156.190	03.09.2011	0.233	149.700	31.05.2012
2012-2013	16621	158.340	07.09.2012	0.000	150.070	31.05.2013
2013-2014	22144	161.300	03.08.2013	0.000	150.080	07.06.2013
2014-2015	7780	156.950	08.09.2014	1.151	150.000	15.05.2015
2015-2016	12288	158.160	18.09.2015	0.000	149.840	17.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	149.900	0.000 *	154.010	1729 *	154.000	1720 *	151.745	328.1	153.365	1083	150.920	104.3
2	150.100	0.000 *	153.620	1394 *	154.120	1831 *	151.795	345.1	153.140	1034 *	150.870	75.55 #
3	150.335	7.532	152.550	669.3 *	154.350	2054 *	151.930	347.6	153.125	966.2	150.700	49.62 #
4	150.350	8.174	152.063	534.0	154.450	2155 *	152.500	642.3 *	153.340	1047	150.690	40.99
5	150.320	6.073 *	152.135	552.2	154.200	1907 *	152.000	404.4 *	153.200	1005	150.660	38.17
6	150.300	6.213	152.130	460.6 *	153.950	1675 *	151.800	323.7	152.755	752.3	150.640	41.85 *
7	150.260	3.617	152.200	594.3	153.020	953.0 *	151.615	305.4	152.765	739.6	150.580	34.10
8	150.220	3.879	151.860	348.3 #	153.280	1133 *	151.570	214.4	152.085	447.2	150.540	30.71
9	150.200	3.604	152.488	636.9	153.490	1291 *	151.405	185.8	153.140	1034 *	150.520	29.90
10	150.180	3.112	156.650	5052 *	153.120	1020 *	151.310	162.7	154.330	2034 *	150.520	29.42
11	150.170	2.339	155.170	2960 *	152.870	789.0	151.500	224.3 *	153.240	1104 *	150.500	28.58
12	150.170	2.545 *	157.330	6215 *	152.395	623.0	151.640	307.1	152.650	725.2 *	150.520	29.96
13	150.180	2.599	158.290	8080 *	152.100	466.3	151.870	352.1 *	152.300	633.3	150.520	28.41 *
14	150.350	6.134	155.800	3777 *	152.150	469.6 *	152.158	442.8	151.850	337.9	150.510	27.42 *
15	150.330	5.319	153.428	1332	151.900	363.8 *	152.245	526.7	151.593	290.3	150.500	28.52
16	150.350	6.463	152.585	647.6	151.695	315.5	152.010	387.1	151.300	167.8 *	150.500	26.02
17	150.320	5.029	152.390	584.9 *	151.810	331.1	152.165	471.5	152.240	545.7	150.530	29.39
18	150.300	4.384	152.150	472.3	151.815	327.6	152.100	447.3 *	151.590	289.3	150.520	25.44
19	150.260	4.446 *	151.950	430.1	151.765	317.7	152.000	378.2	151.635	303.6	150.540	30.91
20	150.230	4.173	152.450	633.4	151.615	306.4	151.870	338.9	151.525	213.7	150.560	32.58 *
21	150.210	3.419	152.018	412.7	151.600	255.8 *	151.760	318.4	151.520	211.8	150.500	26.20
22	150.170	2.614	151.925	377.3	151.440	189.5	152.610	661.2	151.380	149.5	150.480	24.29
23	150.170	2.628	152.298	631.1	151.380	174.8	152.215	516.2	151.280	162.7 *	150.450	22.44
24	150.680	26.51	154.220	1926 *	151.370	173.1	151.880	334.6	151.300	140.8	150.450	22.68
25	150.940	74.10	153.800	1544 *	151.415	188.6	152.550	669.3 *	151.340	145.6	150.470	24.55
26	151.000	99.35 *	153.408	1343	151.710	318.5	154.380	2084 *	151.290	138.7	150.470	24.69
27	151.090	117.9 #	154.150	1859 *	151.610	306.4	153.950	1675 *	151.280	136.6	150.470	23.63 *
28	151.390	192.1 *	153.800	1544 *	151.530	233.5 *	154.170	1878 *	151.240	133.8	150.470	24.40
29	152.338	539.6	154.020	1739 *	151.480	200.0	153.890	1622 *	151.180	128.8	150.460	23.20
30	153.170	1055 #	153.950	1675 *	151.545	213.6	153.030	935.8	151.100	120.1 *	150.460	25.67
31			153.240	1104 *	151.715	318.3			151.020	112.9		
Ten-Daily Mean												
I Ten-Daily	150.217	4.220	152.971	1197	153.798	1574	151.767	326.0	153.124	1014	150.664	47.46
II Ten-Daily	150.266	4.343	154.154	2513	152.012	431.0	151.956	387.6	151.992	461.1	150.520	28.72
III Ten-Daily	151.116	211.3	153.348	1287	151.527	233.8	153.044	1069	151.266	143.8	150.468	24.17
Monthly												
Min.	149.900	0.000	151.860	348.3	151.370	173.1	151.310	162.7	151.020	112.9	150.450	22.44
Max.	153.170	1055	158.290	8080	154.450	2155	154.380	2084	154.330	2034	150.920	104.3
Mean	150.533	73.29	153.486	1654	152.416	729.7	152.255	594.4	152.100	526.9	150.551	33.45

Annual Runoff in MCM = 9892 Annual Runoff in mm = 208

Peak Observed Discharge = 1343 cumecs on 26/07/2016 Corres. Water Level :153.4075 m

Lowest Observed Discharge = 0.000 cumecs on 02/05/2017 Corres. Water Level :149.84 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	150.480	27.26	150.500	17.57 *	150.650	27.75	150.570	19.05	150.270	6.063	149.860	0.483
2	150.540	33.35	150.500	20.33	150.620	25.34	150.550	19.05	150.240	5.686 *	149.840	0.000
3	150.580	35.62	150.520	19.82	150.610	23.92	150.530	18.67	150.230	5.331	149.820	0.000
4	150.590	35.19 *	150.550	20.44	150.590	22.96	150.520	18.22	150.220	5.103	149.810	0.000
5	150.600	38.38	150.550	20.62	150.570	22.17 *	150.500	17.57 *	150.200	4.625	149.800	0.000
6	150.630	40.20	150.560	21.07	150.530	21.71	150.440	13.90	150.180	4.249	149.780	0.000
7	150.540	32.16	150.560	21.02	150.490	15.89	150.540	19.04	150.220	5.276	149.760	0.000
8	150.510	28.00	150.550	20.79 *	150.470	15.32	150.580	21.33	150.270	6.176	149.750	0.000
9	150.530	31.70	150.550	18.87	150.450	14.89	150.660	27.21	150.290	7.378 *	149.750	0.000
10	150.530	31.77	150.550	18.74	150.440	13.87	150.700	32.86	150.300	6.869	149.740	0.000
11	150.500	28.79 *	150.540	18.03	150.430	13.28	150.760	39.01	150.260	5.796	149.720	0.000
12	150.470	26.82 *	150.540	20.36	150.440	14.12 *	150.790	40.99 *	150.240	5.249	149.700	0.000
13	150.470	24.04	150.580	21.75	150.450	15.68	150.730	35.18 *	150.220	5.054	149.700	0.000
14	150.440	21.04	150.590	22.39	150.490	17.30	150.690	31.80	150.200	4.516 *	149.680	0.000
15	150.410	21.00	150.620	25.85 *	150.550	21.97	150.650	28.79	150.180	4.231	150.340	12.63
16	150.360	21.17	150.650	30.84	150.600	22.62	150.610	24.22	150.170	3.742 *	150.440	16.87
17	150.340	20.00	150.650	30.70	150.660	24.86	150.590	22.53	150.160	3.657	150.570	21.00
18	150.320	18.19 *	150.690	32.97	150.740	37.78	150.570	21.83	150.100	4.772	150.500	19.00
19	150.310	18.21	150.690	29.53	150.770	39.00 *	150.550	20.79 *	150.070	3.308 #	150.450	15.07
20	150.300	17.08	150.700	33.65	150.780	41.88	150.520	19.76	150.070	3.308 #	150.400	14.88
21	150.300	17.53	150.700	33.65	150.790	42.85	150.470	17.62	150.050	2.938 #	150.360	11.08 *
22	150.300	17.19	150.730	35.18 *	150.750	37.96	150.430	14.27	150.030	2.935	150.310	10.07
23	150.290	16.36	150.760	39.63	150.740	37.04	150.400	13.56	150.020	2.422 *	150.270	7.396
24	150.300	17.30	150.770	41.00	150.700	32.71	150.380	12.62	150.000	2.004	150.250	6.531
25	150.310	17.68 *	150.760	39.64	150.660	29.92	150.360	11.65	149.980	2.183	150.230	6.117
26	150.330	19.84	150.760	38.02 *	150.640	27.42 *	150.340	9.340 *	149.960	1.926	150.220	5.594
27	150.320	19.19	150.790	41.40	150.620	23.46	150.340	11.12	149.930	1.170	150.210	5.408
28	150.300	17.66	150.790	41.08	150.600	22.67	150.320	8.523 *	149.920	1.097	150.200	6.238 *
29	150.320	19.36	150.780	39.99 *			150.300	7.749 #	149.900	0.851 #	150.180	4.339
30	150.400	19.26	150.740	37.77			150.300	7.749 #	149.880	0.666 *	150.170	4.211
31	150.500	20.25	150.690	32.70			150.290	6.548			150.170	4.205
Ten-Daily Mean												
I Ten-Daily	150.553	33.36	150.539	19.93	150.542	20.38	150.559	20.69	150.242	5.675	149.791	0.048
II Ten-Daily	150.392	21.63	150.625	26.61	150.591	24.85	150.646	28.49	150.167	4.363	150.150	9.945
III Ten-Daily	150.334	18.33	150.752	38.19	150.688	31.76	150.357	10.98	149.967	1.819	150.234	6.471
Monthly												
Min.	150.290	16.36	150.500	17.57	150.430	13.28	150.290	6.548	149.880	0.666	149.680	0.000
Max.	150.630	40.20	150.790	41.40	150.790	42.85	150.790	40.99	150.300	7.378	150.570	21.00
Mean	150.423	24.24	150.642	28.56	150.601	25.23	150.515	19.76	150.125	3.953	150.064	5.52

Peak Computed Discharge = 8080 cumecs on 13/07/2016 Corres. Water Level :158.29 m

Lowest Computed Discharge = 0.000 cumecs on 01/06/2016 Corres. Water Level :149.9 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

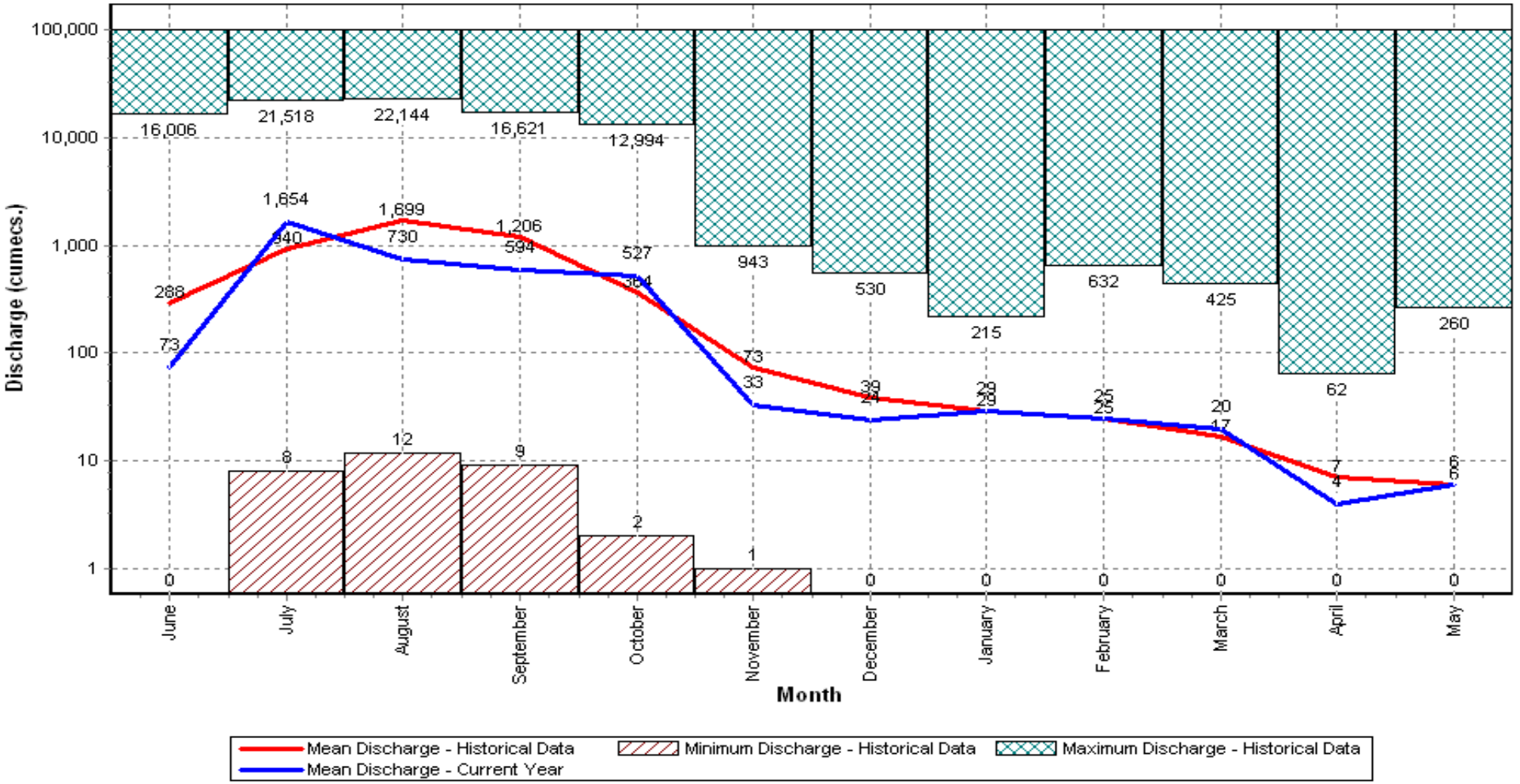
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : SAKMUR (AGH30B6) **Data considered : 1968-2017** **Division : Wainganga Div., Nagpur**

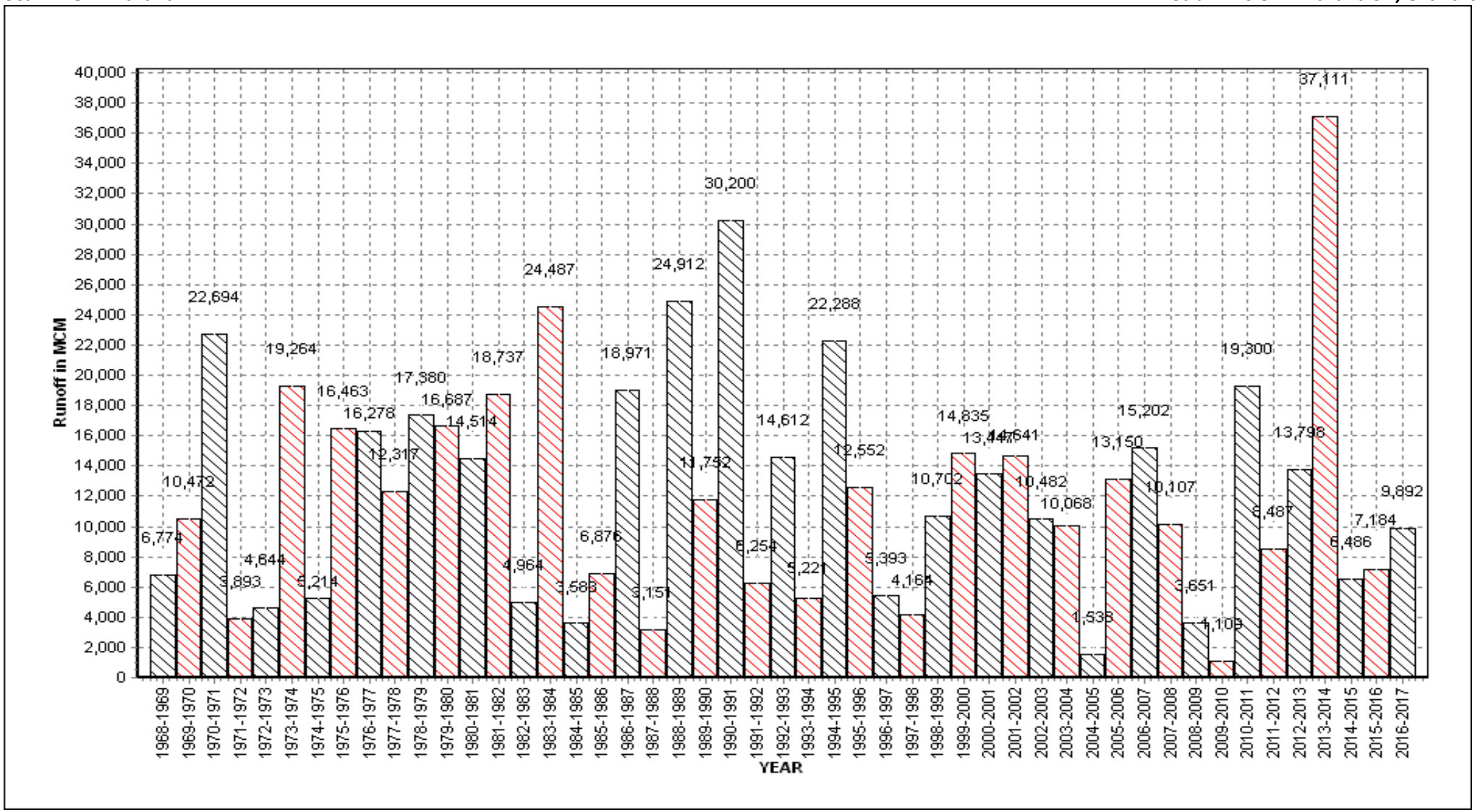
Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



Annual Runoff Values for the period: 1968 - 2017

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



Note: Missing values have not been considered while arriving at Annual Runoff

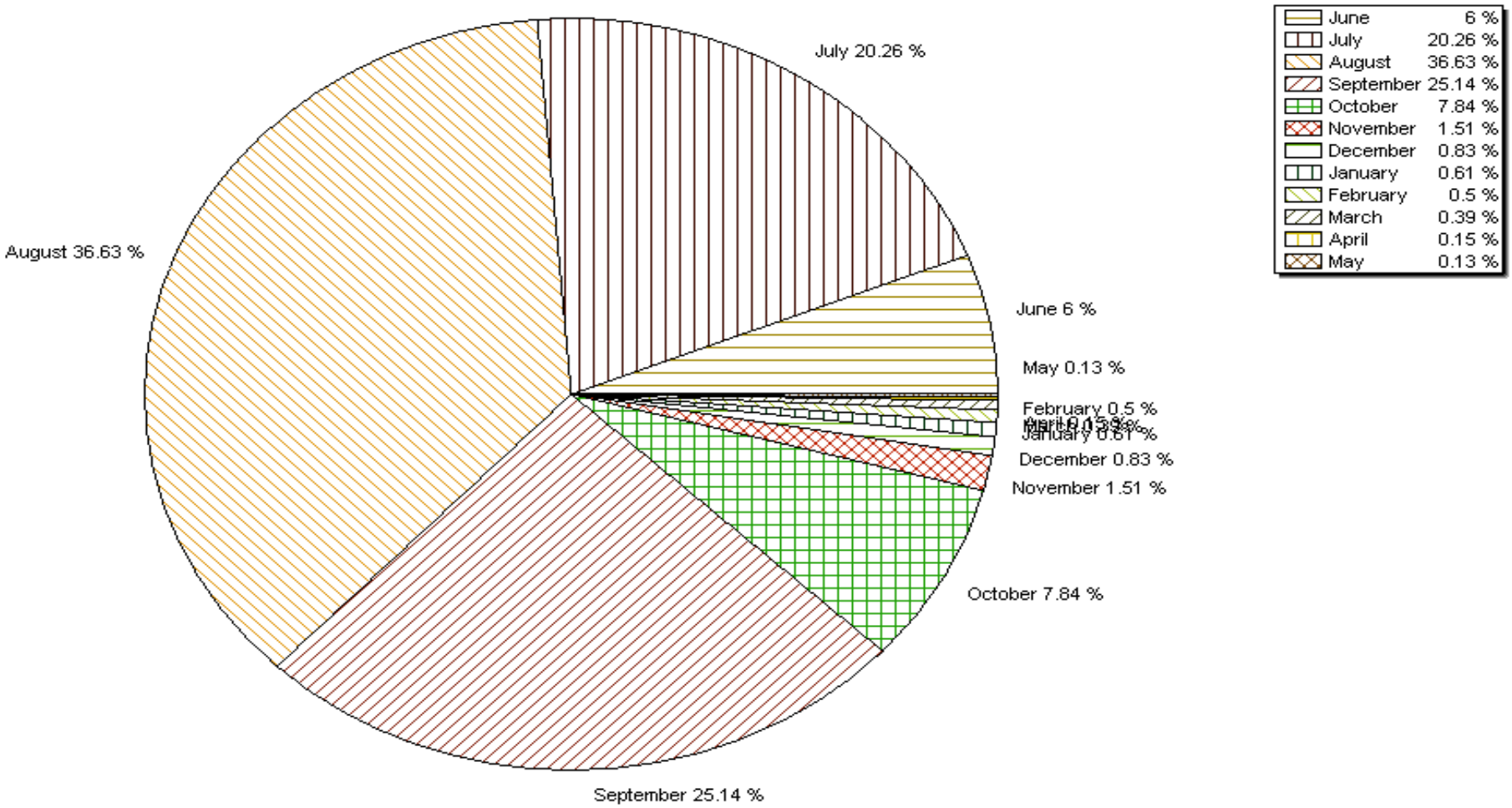
Monthly Average Runoff based on period : 1968-2016

Station Name : SAKMUR (AGH30B6)

Local River : Wardha

Division : Wainganga Div., Nagpur

Sub-Division : Wardha SD, Chandrapur



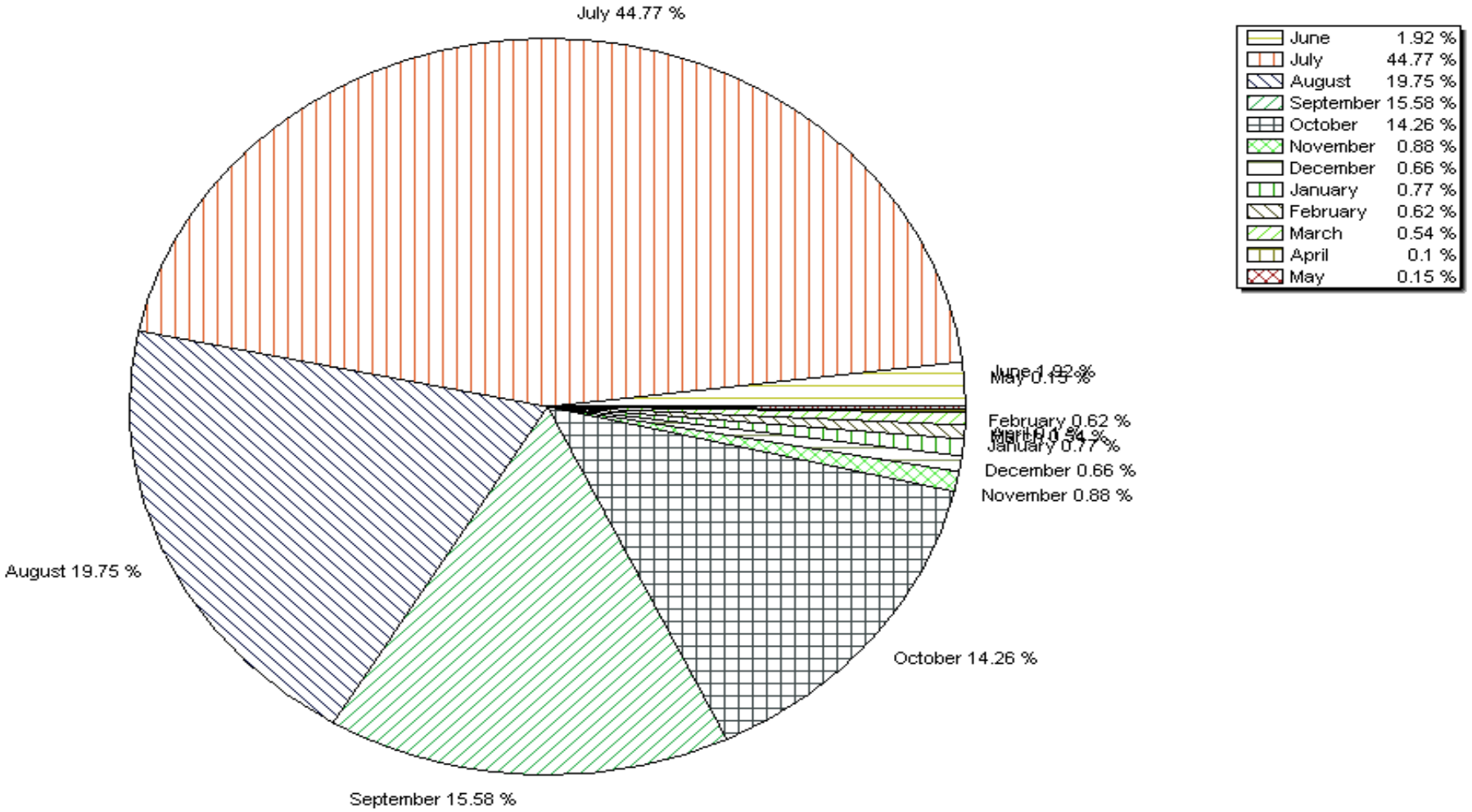
Monthly Runoff for the Year : 2016-2017

Station Name : SAKMUR (AGH30B6)

Local River : Wardha

Division : Wainganga Div., Nagpur

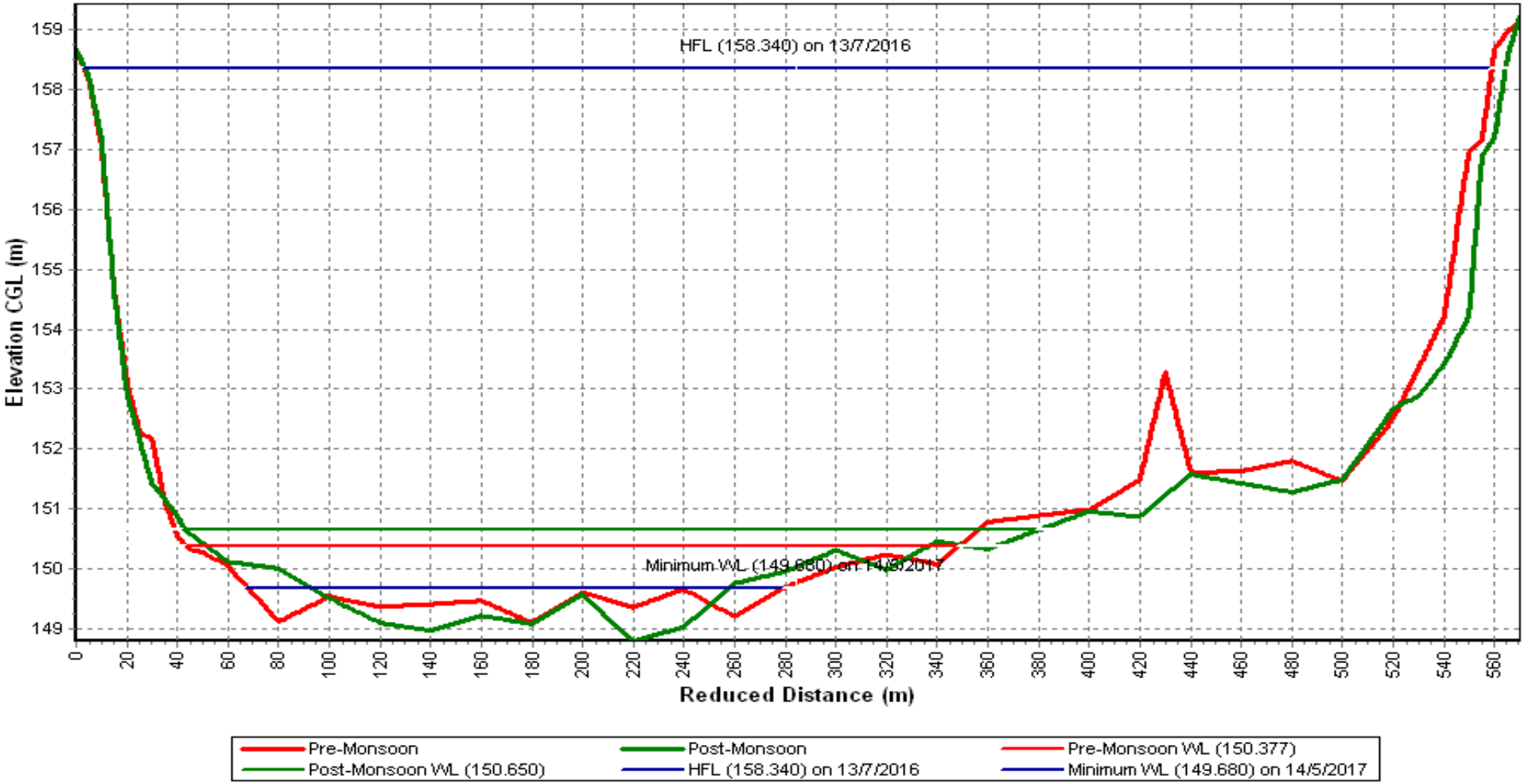
Sub-Division : Wardha SD, Chandrapur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

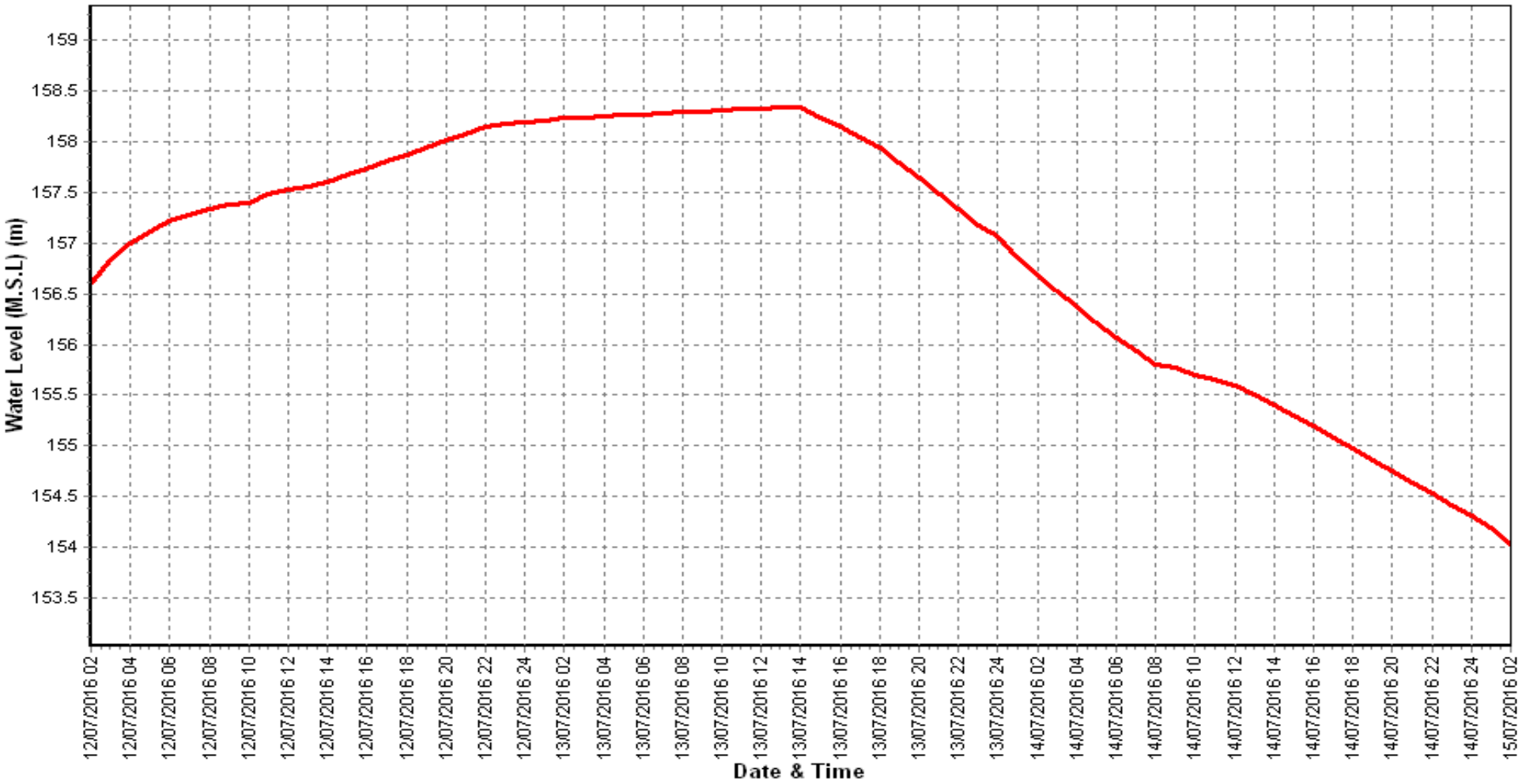
Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

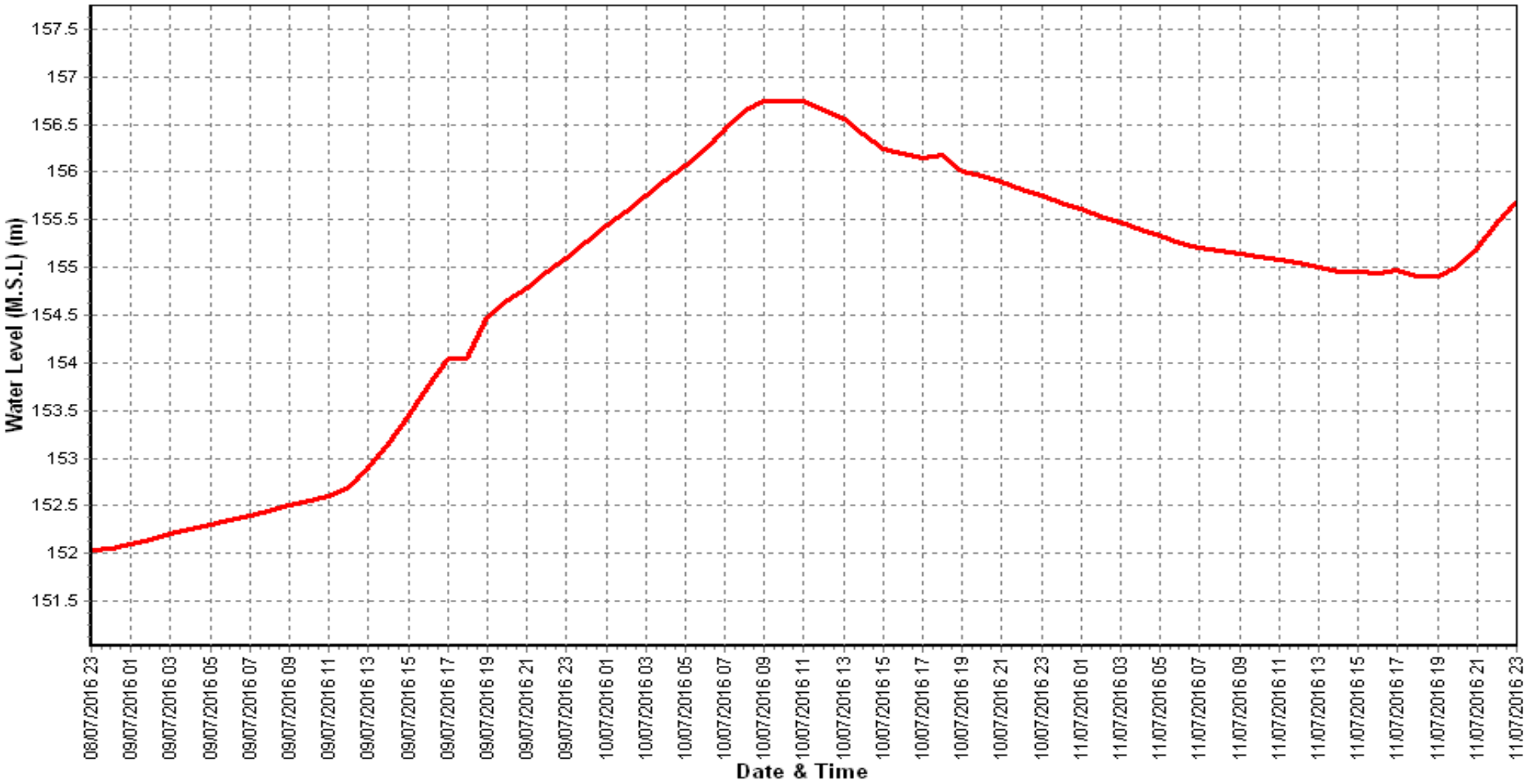


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**

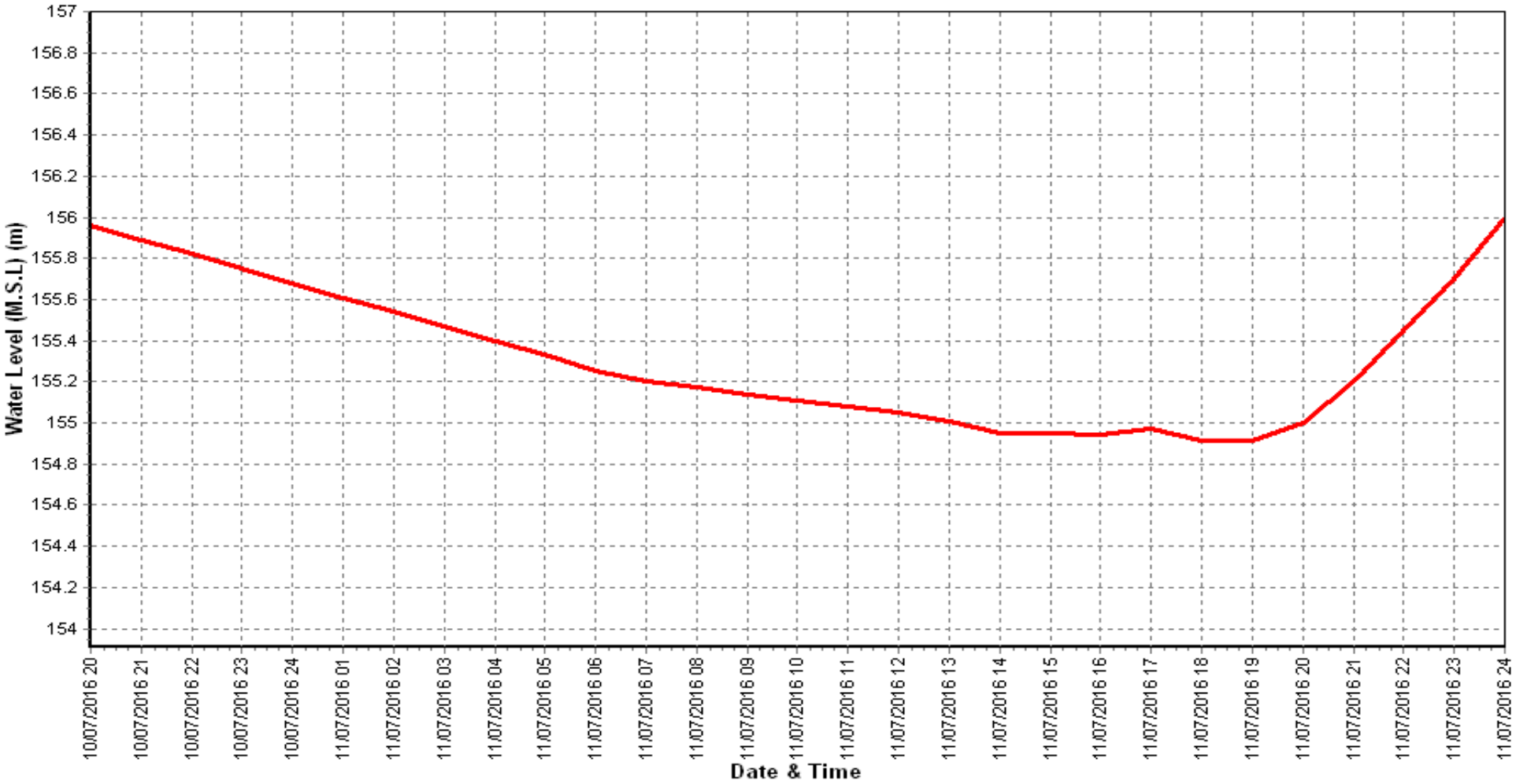


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : SAKMUR (AGH30B6) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: BAMNI**		**Code**	**: AGH30E2**	
State	: Maharashtra		District	Chandrapur	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wardha	
Sub-Sub Tributary	:		Local River	: Wardha	
Division	: Wainganga Div., Nagpur		Sub-Division	: Wardha Sub-division,Chandrapur	
Drainage Area	: 46020 Sq. Km.		Bank	: Left	
Latitude	: 19°48'53"		Longitude	: 79°22'46"	
Zero of Gauge (m)	: 157.38 (m.s.l) 157.97 (m.s.l)		12.01.1964 01.06.1991	- 31.05.1991	
	Opening Date		Closing Date		
Gauge	: 12.01.1964				
Discharge	: 16.10.1965		**HFL During 2016-17**	**: 171.080 Meter**	
			Corres.Discharge	**: 10156.25 Cumecs (Estimated)**	
Sediment	: 13.12.1965		**Date & Time of**	**: 12.07.2016**	
			Occurance	**: 24.00 Hrs.**	
Water Quality	: 03.06.1966				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	10900	172.000	06.09.1966	0.800	157.640	13.06.1966
1967-1968	11070	170.130	26.07.1967	0.600	157.525	12.06.1967
1968-1969	4746	167.630	05.08.1968	0.900	157.650	11.06.1968
1969-1970	8485	169.750	21.09.1969	0.536	157.965	21.05.1970
1970-1971	12120	173.680	21.08.1970	0.776	157.765	02.06.1970
1971-1972	3940	166.630	24.06.1971	0.000	157.560	31.05.1972
1972-1973	5141	167.010	29.06.1972	0.003	157.535	17.06.1972
1973-1974	9610	170.290	27.08.1973	0.180	157.660	08.06.1973
1974-1975	5141	167.725	13.08.1974	0.540	157.990	27.05.1975
1975-1976	8800	171.220	06.09.1975	0.800	157.995	01.06.1975
1976-1977	13600	172.610	04.09.1976	1.160	158.220	03.06.1976
1977-1978	9841	170.588	03.09.1977	1.500	158.085	28.05.1978
1978-1979	15000	171.510	31.08.1978	3.200	158.210	13.05.1979
1979-1980	15000	172.580	07.08.1979	0.700	158.040	29.05.1980
1980-1981	10143	170.510	23.08.1980	1.000	158.055	02.06.1980
1981-1982	14600	172.805	10.08.1981	2.300	158.120	16.06.1981
1982-1983	3641	166.185	21.07.1982	1.070	158.625	13.05.1983
1983-1984	15600	173.570	14.08.1983	0.700	158.565	13.06.1983
1984-1985	2350	164.000	20.08.1984	0.300	158.170	19.05.1985
1985-1986	4986	167.400	14.08.1985	0.700	158.505	26.04.1986
1986-1987	21400	176.320	15.08.1986	1.600	158.440	10.06.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	990.0	161.775	26.08.1987	1.600	158.590	27.05.1988
1988-1989	11160	171.340	04.10.1988	1.900	158.005	17.05.1989
1989-1990	6078	170.900	20.08.1989	4.200	158.055	01.06.1989
1990-1991	10400	173.780	18.08.1990	5.580	158.140	26.05.1991
1991-1992	8205	171.140	17.08.1991	0.880	158.410	17.05.1992
1992-1993	11000	172.290	22.08.1992	0.850	158.400	08.06.1992
1993-1994	6602	168.920	31.07.1993	0.800	158.555	26.05.1994
1994-1995	14074	174.110	14.07.1994	1.019	158.570	06.06.1994
1995-1996	14096	173.270	21.10.1995	3.091	158.765	21.05.1996
1996-1997	3200	164.860	28.08.1996	0.930	158.770	02.06.1996
1997-1998	3772	167.000	29.08.1997	0.980	158.710	10.06.1997
1998-1999	3438	165.585	11.08.1998	2.741	158.840	13.05.1999
1999-2000	8175	170.392	11.08.1999	3.788	158.740	05.05.2000
2000-2001	12740	173.960	20.07.2000	1.498	158.675	28.05.2001
2001-2002	10035	171.920	16.06.2001	0.830	158.550	24.05.2002
2002-2003	11879	174.050	27.06.2002	0.687	158.820	30.05.2003
2003-2004	7539	169.700	24.08.2003	0.959	158.850	11.06.2003
2004-2005	2512	164.155	06.08.2004	0.242	158.770	29.05.2005
2005-2006	8604	173.120	29.07.2005	0.289	158.770	08.06.2005
2006-2007	13876	175.890	08.08.2006	2.005	158.860	30.05.2007
2007-2008	7867	171.110	10.08.2007	1.732	158.490	30.05.2008
2008-2009	4688	168.100	06.08.2008	0.264	158.210	30.05.2009
2009-2010	783.7	161.380	04.09.2009	0.078	158.170	18.04.2010
2010-2011	8747	172.250	08.08.2010	0.000	158.160	21.06.2010
2011-2012	5891	168.440	02.09.2011	0.000	158.770	22.05.2012
2012-2013	7650	170.995	06.09.2012	0.000	158.860	06.05.2013
2013-2014	12641	175.680	03.08.2013	0.000	158.750	02.06.2013
2014-2015	8758	169.130	08.09.2014	1.091	158.510	13.05.2015
2015-2016	10220	170.970	18.09.2015	0.906	158.470	16.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	158.830	10.63	163.240	1772	165.050	2518	160.065	246.3	161.905	767.4	159.070	51.22
2	158.770	7.681	161.870	799.2 #	164.620	2470	160.295	267.8	161.540	669.6 *	159.020	45.14
3	158.740	6.309	160.340	301.9 *	164.210	2095 *	160.370	281.7	162.410	896.8	159.000	42.87
4	158.700	5.184	159.915	185.6	164.350	2417	161.040	497.0 *	162.360	910.2	158.970	41.41
5	158.690	5.658 *	160.395	271.8	163.620	1704 *	160.130	253.6 *	161.745	698.4	158.940	39.18
6	158.640	4.280	160.190	250.0 *	162.850	1260 *	159.750	176.7	162.385	946.4	158.890	30.54 *
7	158.620	3.832	160.060	201.7	161.950	832.5 *	159.600	132.8	160.770	415.4 #	158.860	28.60
8	158.600	3.593	160.280	264.7	162.970	1324 *	159.490	132.4	160.880	544.2	158.840	27.02
9	158.590	3.428	164.470	1974	162.100	1025	159.410	112.1	162.970	1324 *	158.850	27.83
10	158.630	4.101 #	167.220	4807 *	161.250	596.0	159.350	103.4	163.470	1685	158.870	29.99
11	158.820	11.42	163.640	1614	161.015	520.0	159.360	115.2 *	161.630	703.7 *	158.870	29.53
12	158.840	10.90 *	170.390	9039 *	160.540	318.2	159.385	107.2	161.660	715.2 *	158.910	35.14
13	158.830	11.69	170.820	9727 *	160.375	283.7	159.880	202.1 *	160.595	395.2	158.850	26.64 *
14	158.820	11.29	164.320	2404	160.180	264.7 *	160.870	519.0	160.250	299.8	158.870	28.55 *
15	158.740	7.965	161.990	961.7	160.090	245.0 *	160.450	363.2	160.160	274.6	158.870	27.94
16	158.710	4.894	160.795	382.0	159.995	193.7	160.330	304.2	160.260	283.0 *	158.870	27.91
17	158.670	4.453	160.560	357.5 *	159.965	193.1	160.680	474.8	160.210	312.1	158.920	34.96
18	158.630	3.967	160.215	255.0	160.020	198.5	160.870	444.7 *	159.860	213.5	158.920	35.56
19	158.620	3.870 *	160.195	249.0	159.845	189.4	160.410	393.5	159.680	169.2	158.900	33.20
20	158.620	3.852	160.470	290.3	159.680	162.5	160.165	248.2	159.670	166.7	158.890	30.54 *
21	158.580	3.703	160.115	240.2	159.590	150.4 *	161.035	517.4	159.475	155.2	158.870	28.08
22	159.095	77.10	160.120	231.9	159.540	155.7	161.020	532.3	159.395	137.6	158.880	29.53
23	159.170	92.21	161.195	531.6	159.490	119.3	160.670	422.6	159.270	102.9 *	158.870	25.84
24	159.115	86.77	164.880	2594 *	159.500	121.5	160.810	455.9	159.450	141.7	158.870	25.57
25	159.360	134.9	162.460	990.0	159.710	170.4	164.750	2492 *	159.350	125.4	158.870	24.88
26	159.150	87.56 *	163.020	1136	159.750	201.8	163.445	1648	159.390	134.8	158.880	29.35
27	159.220	96.40	163.495	1762	159.680	160.7	162.645	1096	159.330	120.5	158.880	29.54 *
28	160.135	274.1	163.485	1689	159.500	136.0 *	163.525	1722	159.290	96.73	158.880	29.23
29	160.500	326.0	164.000	2062	159.550	160.8	161.690	706.3	159.220	76.93	158.880	28.65
30	163.120	1407 *	163.035	1166	159.770	207.3	161.705	735.9	159.150	64.06 *	158.930	33.34
31			162.850	1260 *	159.775	209.1			159.110	55.35		
n-Daily Mean												
I Ten-Daily	158.681	5.470	161.798	1083	163.297	1624	159.950	220.4	162.043	885.7	158.931	36.38
II Ten-Daily	158.730	7.430	163.340	2528	160.170	256.9	160.240	317.2	160.397	353.3	158.887	31.00
III Ten-Daily	159.744	258.6	162.605	1242	159.623	163.0	162.130	1033	159.312	110.1	158.881	28.40
Monthly												
Min.	158.580	3.428	159.915	185.6	159.490	119.3	159.350	103.4	159.110	55.35	158.840	24.88
Max.	163.120	1407	170.820	9727	165.050	2518	164.750	2492	163.470	1685	159.070	51.22
Mean	159.052	90.5	162.582	1605	160.985	664.6	160.773	523.5	160.543	438.8	158.900	31.93

Annual Runoff in MCM = 9204 Annual Runoff in mm = 200

Peak Observed Discharge = 2518 cumecs on 01/08/2016 Corres. Water Level :165.05 m

Lowest Observed Discharge = 0.665 cumecs on 27/04/2017 Corres. Water Level :158.4 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	158.970	42.17	158.920	30.17 *	158.830	21.88	158.770	18.19	158.580	5.303	158.400	0.810
2	158.970	42.27	158.890	25.17	158.830	21.36	158.770	17.79	158.570	4.700 *	158.410	0.844
3	158.970	42.82	158.870	21.52	158.800	18.51	158.770	18.12	158.560	3.623	158.420	0.895
4	158.980	37.37 *	158.850	24.63	158.790	17.86	158.770	18.09	158.560	3.526	158.420	0.903
5	158.990	45.57	158.850	23.96	158.770	16.00 *	158.770	16.00 *	158.640	6.690	158.420	0.883
6	158.980	38.72	158.840	23.13	158.740	13.46	158.790	18.63	158.640	6.939	158.410	0.842
7	158.980	38.60	158.800	19.17	158.740	13.39	158.800	19.09	158.620	6.365	158.420	0.923 *
8	159.000	41.06	158.790	17.59 *	158.730	12.93	158.900	27.93	158.600	5.796	158.430	0.929
9	159.000	39.90	158.770	17.30	158.730	12.65	158.910	28.88	158.570	4.700 *	158.430	0.947
10	158.970	36.48	158.770	17.00	158.730	12.54	158.910	28.71	158.530	3.105	158.430	1.072 *
11	158.960	34.87 *	158.840	24.35	158.730	12.53	158.910	28.67	158.530	3.030	158.430	0.963
12	158.960	34.87 *	158.850	26.60	158.770	16.00 *	158.870	24.85 *	158.520	2.919	158.420	0.929
13	158.900	25.69	158.850	25.88	158.820	17.70	158.830	21.03 *	158.510	2.768	158.930	28.89
14	158.890	25.71	158.870	28.97	158.830	18.23	158.810	18.79	158.490	2.255 *	158.870	24.85 *
15	158.880	25.11	158.870	24.85 *	158.880	24.14	158.800	18.18	158.470	1.802 #	158.820	17.98
16	158.880	24.68	158.890	33.32	158.890	24.71	158.790	17.50	158.450	1.409 *	158.800	17.29
17	158.870	23.67	158.890	33.18	158.900	25.42	158.770	16.01	158.410	0.868	158.730	12.68
18	158.870	24.85 *	158.890	26.91 #	158.900	26.18	158.760	15.44	158.410	0.852	158.710	11.70
19	158.860	23.60	158.900	34.64	158.900	27.97 *	158.730	13.08 *	158.420	0.899	158.670	8.402
20	158.860	23.11	158.910	35.51	158.900	25.55	158.680	8.622	158.430	0.953	158.660	8.079
21	158.860	23.23	158.900	34.39	158.890	24.65	158.660	8.349	158.430	0.963	158.670	9.350 *
22	158.860	22.76	158.910	29.06 *	158.870	22.87	158.660	8.229	158.420	0.926	158.700	11.26
23	158.870	24.27	158.990	40.90	158.860	21.91	158.660	8.001	158.420	0.923 *	158.700	10.28
24	158.870	23.63	158.980	39.85	158.850	21.22	158.650	7.681	158.420	0.928	158.690	10.58
25	158.890	26.91 *	158.970	38.88	158.820	17.82	158.650	7.527	158.410	0.906	158.690	10.35
26	158.900	25.00	158.960	34.87 *	158.800	18.41 *	158.620	6.789 *	158.410	0.881	158.690	10.51
27	158.890	24.03	158.950	36.57	158.770	18.39	158.600	6.095	158.400	0.665 #	158.720	12.37
28	158.910	26.36	158.950	35.97	158.760	17.85	158.600	5.899 *	158.400	0.821	158.700	11.12 *
29	158.900	24.62	158.930	31.31 *			158.590	5.845	158.400	0.810	158.690	10.62
30	158.940	28.18	158.860	23.62			158.590	5.745	158.400	0.665 *	158.690	10.85
31	158.920	26.23	158.840	22.48			158.580	5.484			158.680	10.35
n-Daily Me												
I Ten-Daily	158.981	40.49	158.835	21.96	158.769	16.06	158.816	21.14	158.587	5.075	158.419	0.905
II Ten-Daily	158.893	26.62	158.876	29.42	158.852	21.84	158.795	18.22	158.464	1.775	158.704	13.18
II Ten-Daily	158.892	25.02	158.931	33.45	158.827	20.39	158.624	6.877	158.411	0.849	158.693	10.70
Monthly												
Min.	158.860	22.76	158.770	17.00	158.730	12.53	158.580	5.484	158.400	0.665	158.400	0.810
Max.	159.000	45.57	158.990	40.90	158.900	27.97	158.910	28.88	158.640	6.939	158.930	28.89
Mean	158.921	30.53	158.882	28.44	158.815	19.36	158.741	15.14	158.487	2.566	158.608	8.338

Peak Computed Discharge = 9727 cumecs on 13/07/2016 Corres. Water Level :170.82 m

Lowest Computed Discharge = 0.665 cumecs on 30/04/2017 Corres. Water Level :158.4 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

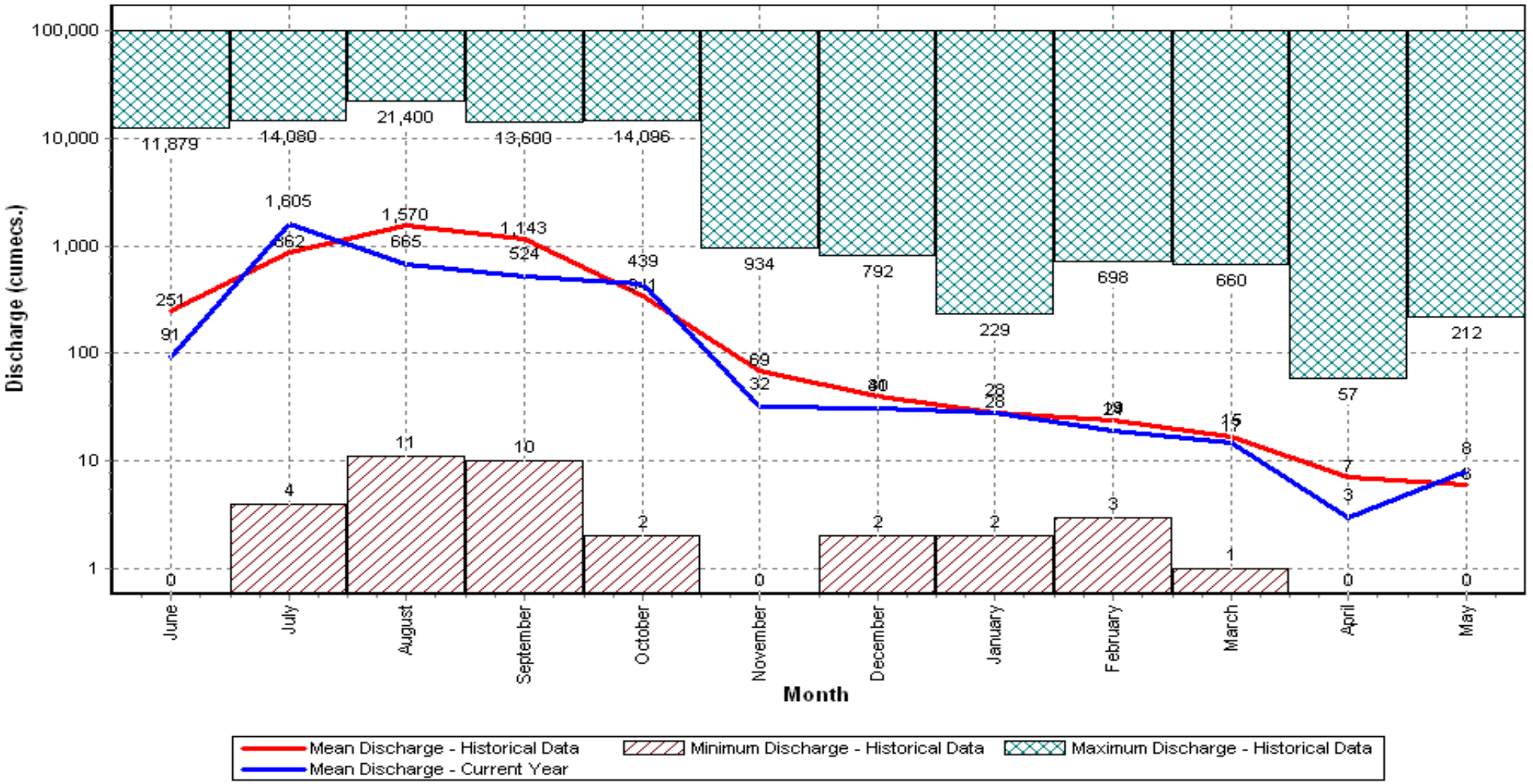
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : BAMNI (AGH30E2) **Data considered : 1966-2017** **Division : Wainganga Div., Nagpur**

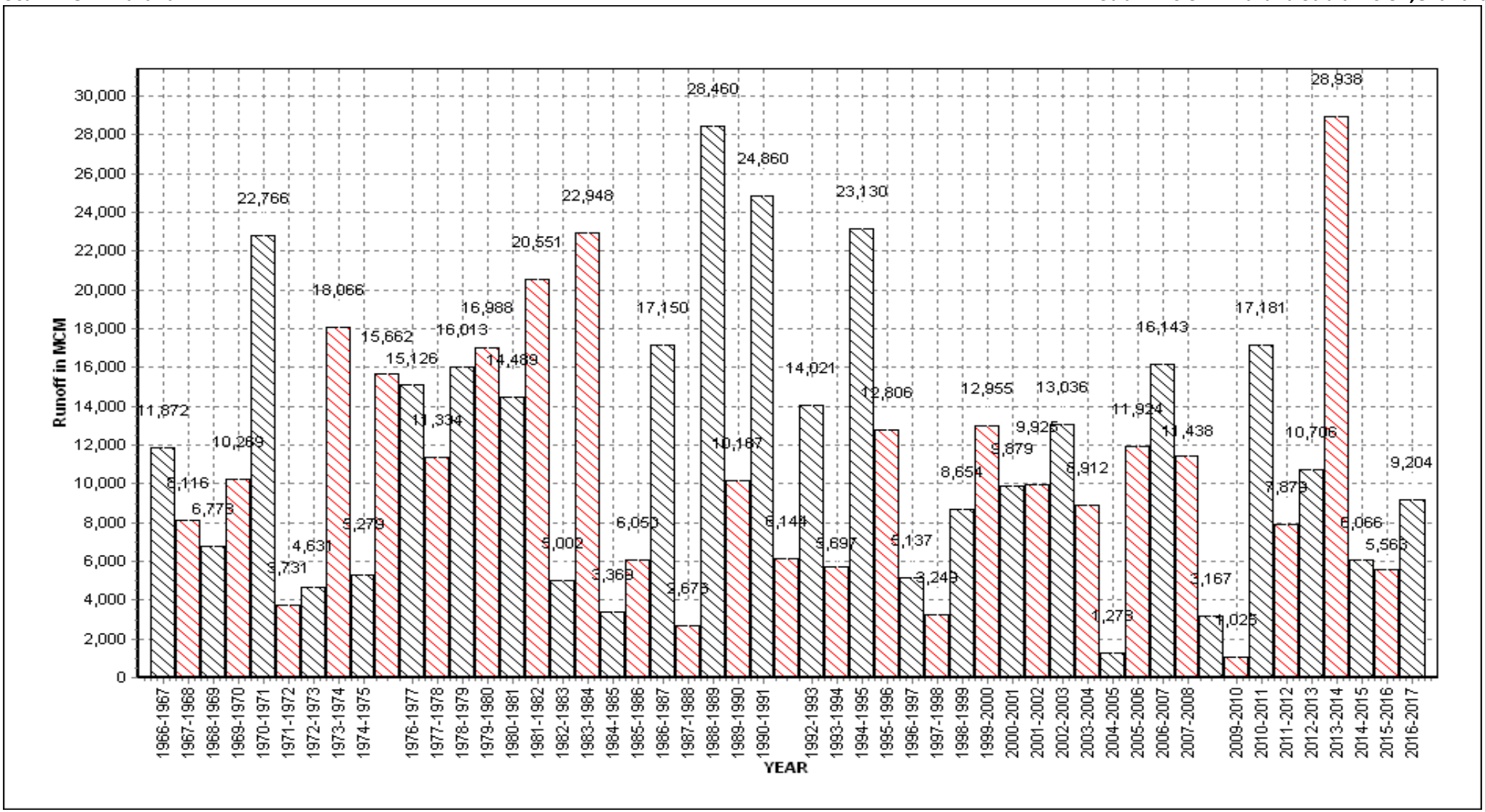
Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



Annual Runoff Values for the period: 1966 - 2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



Note: Missing values have not been considered while arriving at Annual Runoff

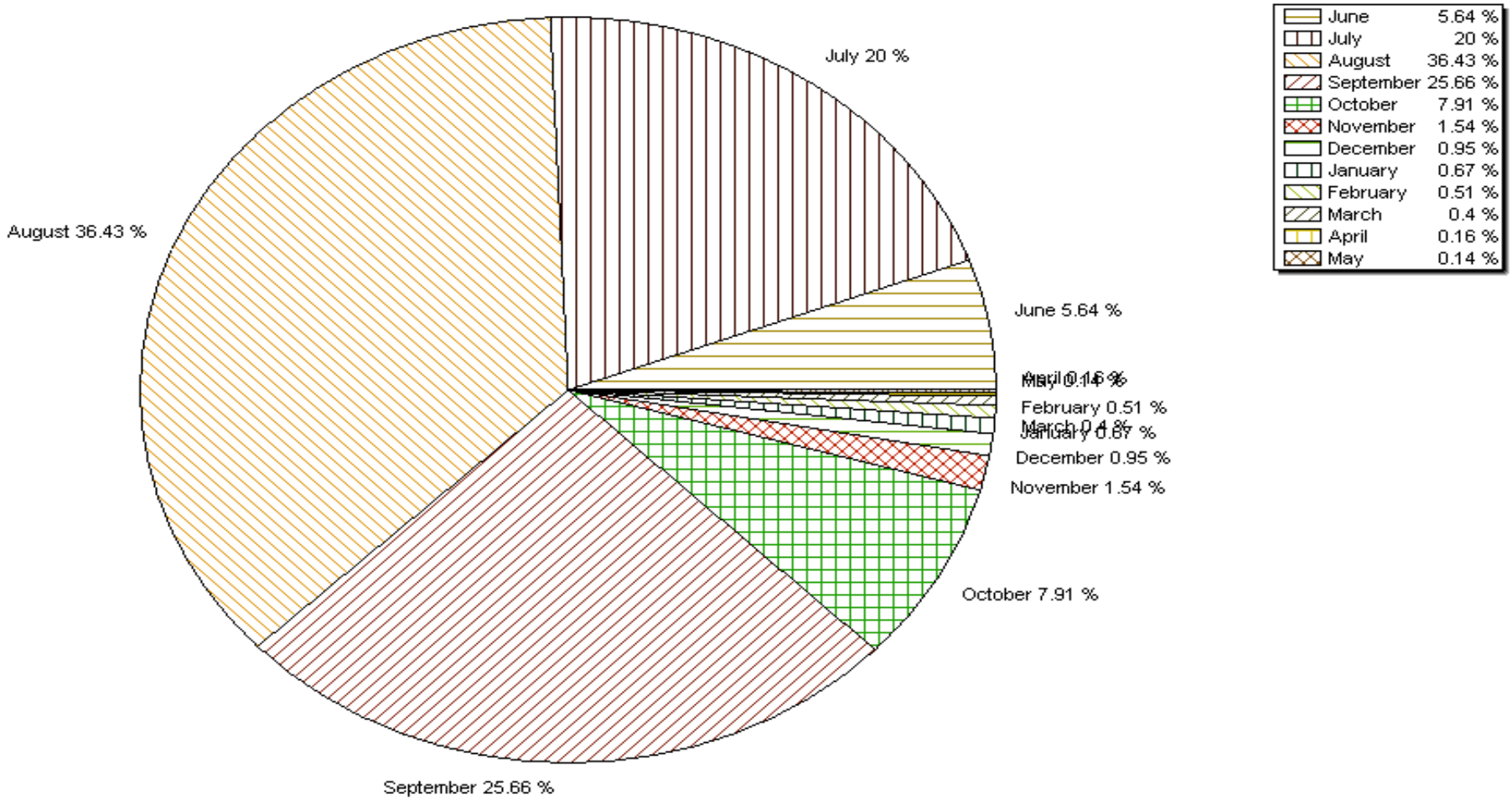
Monthly Average Runoff based on period : 1966-2016

Station Name : BAMNI (AGH30E2)

Division : Wainganga Div., Nagpur

Local River : Wardha

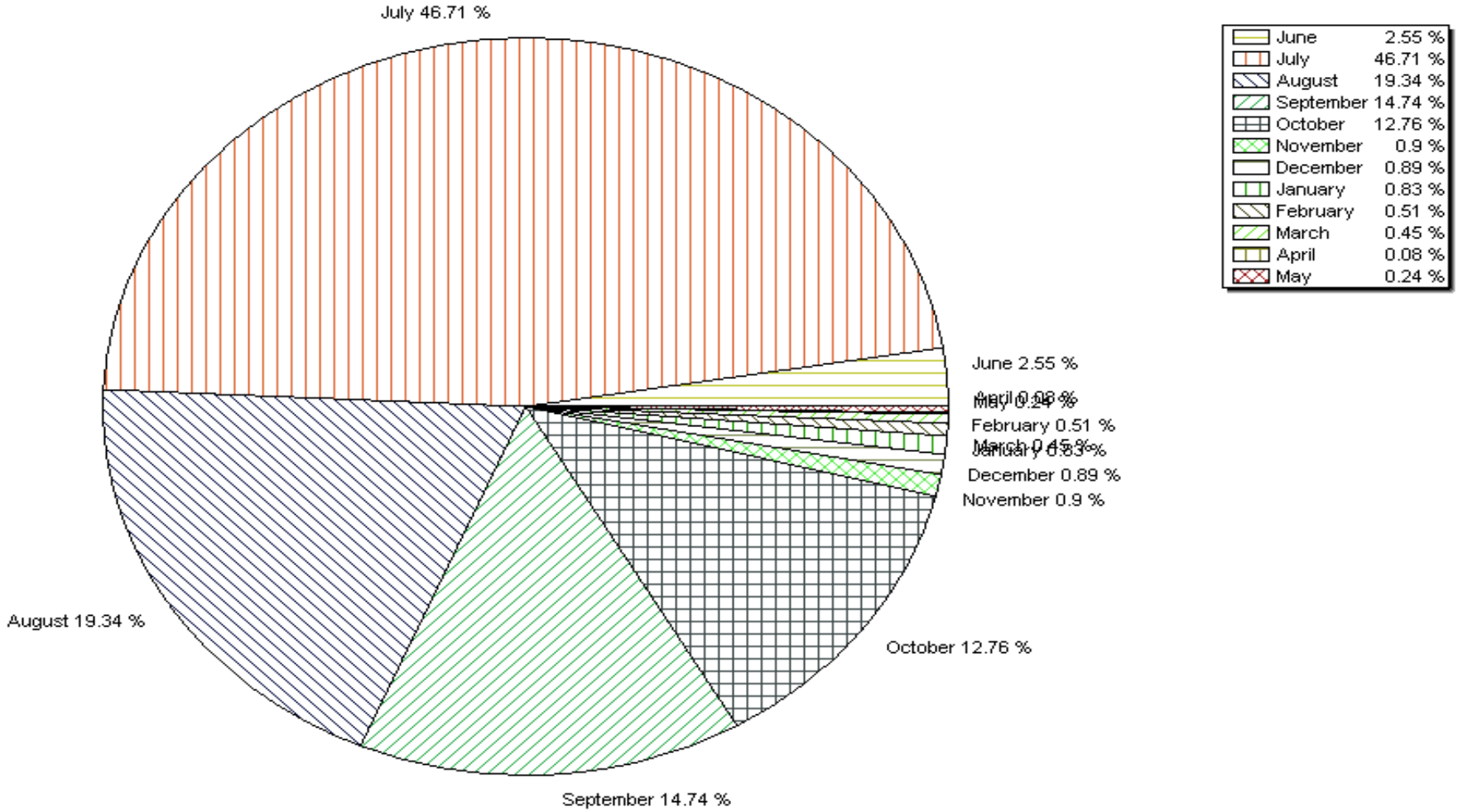
Sub-Division : Wardha Sub-division,Chandrapur



Monthly Runoff for the Year : 2016-2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

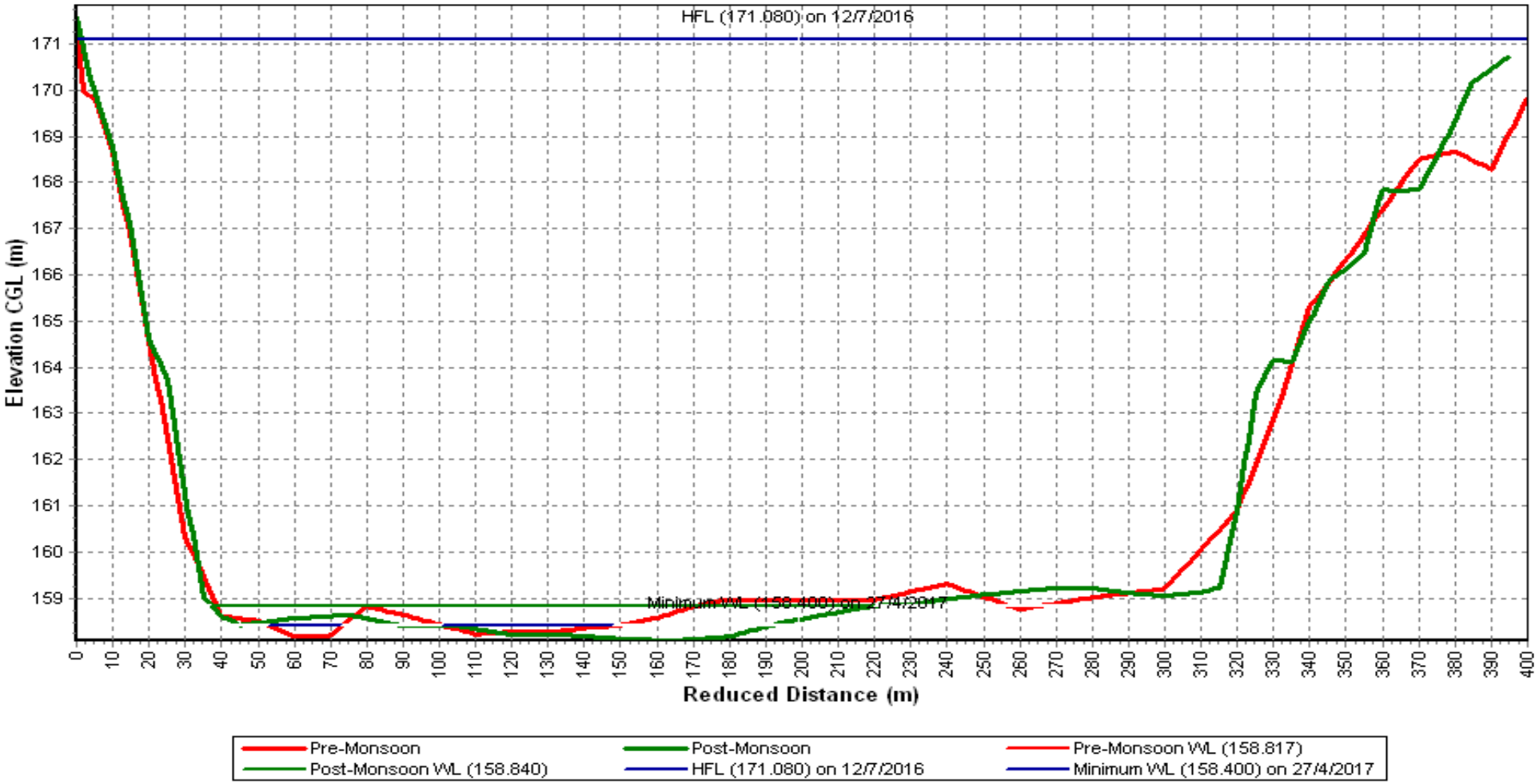
Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

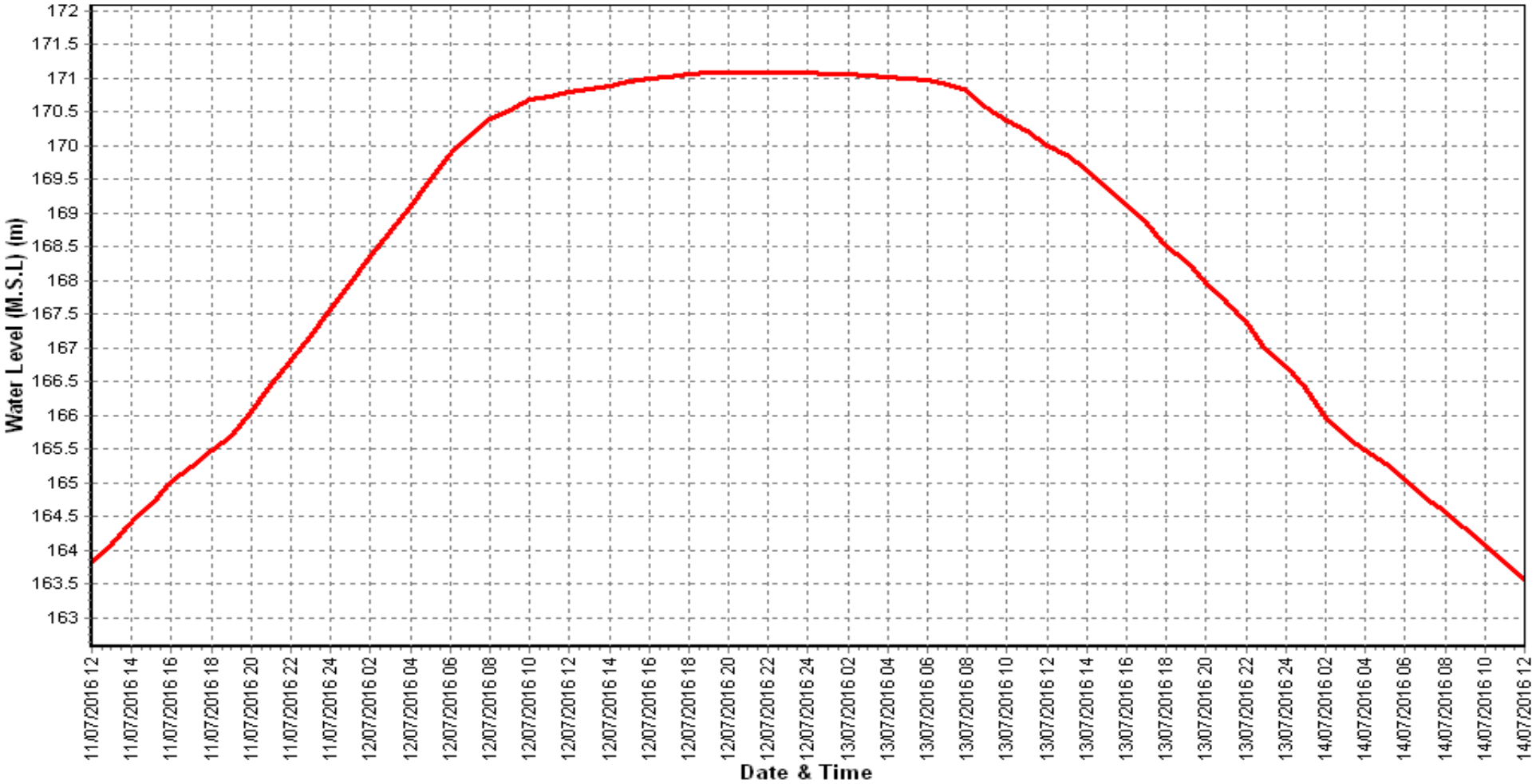
Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

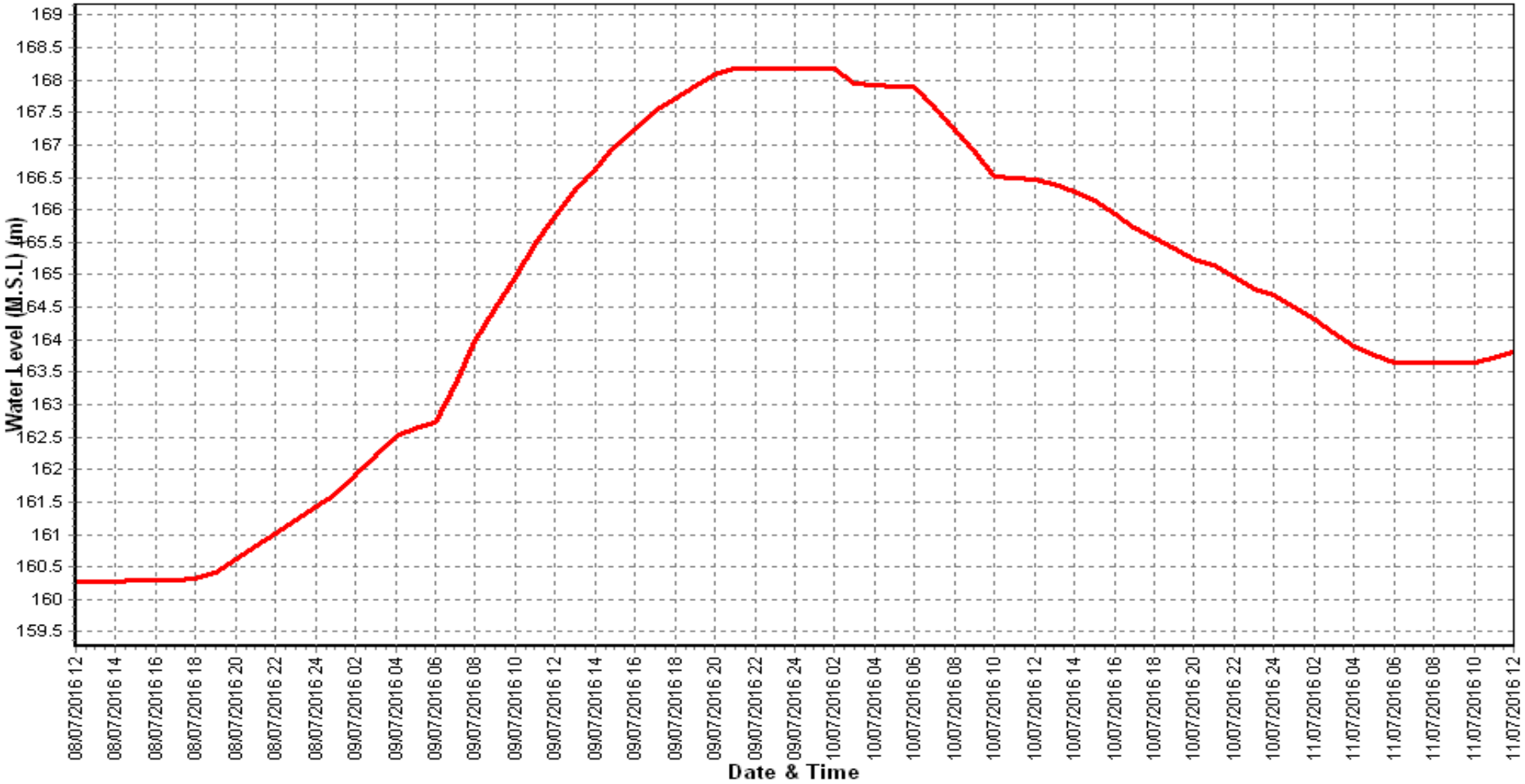


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**

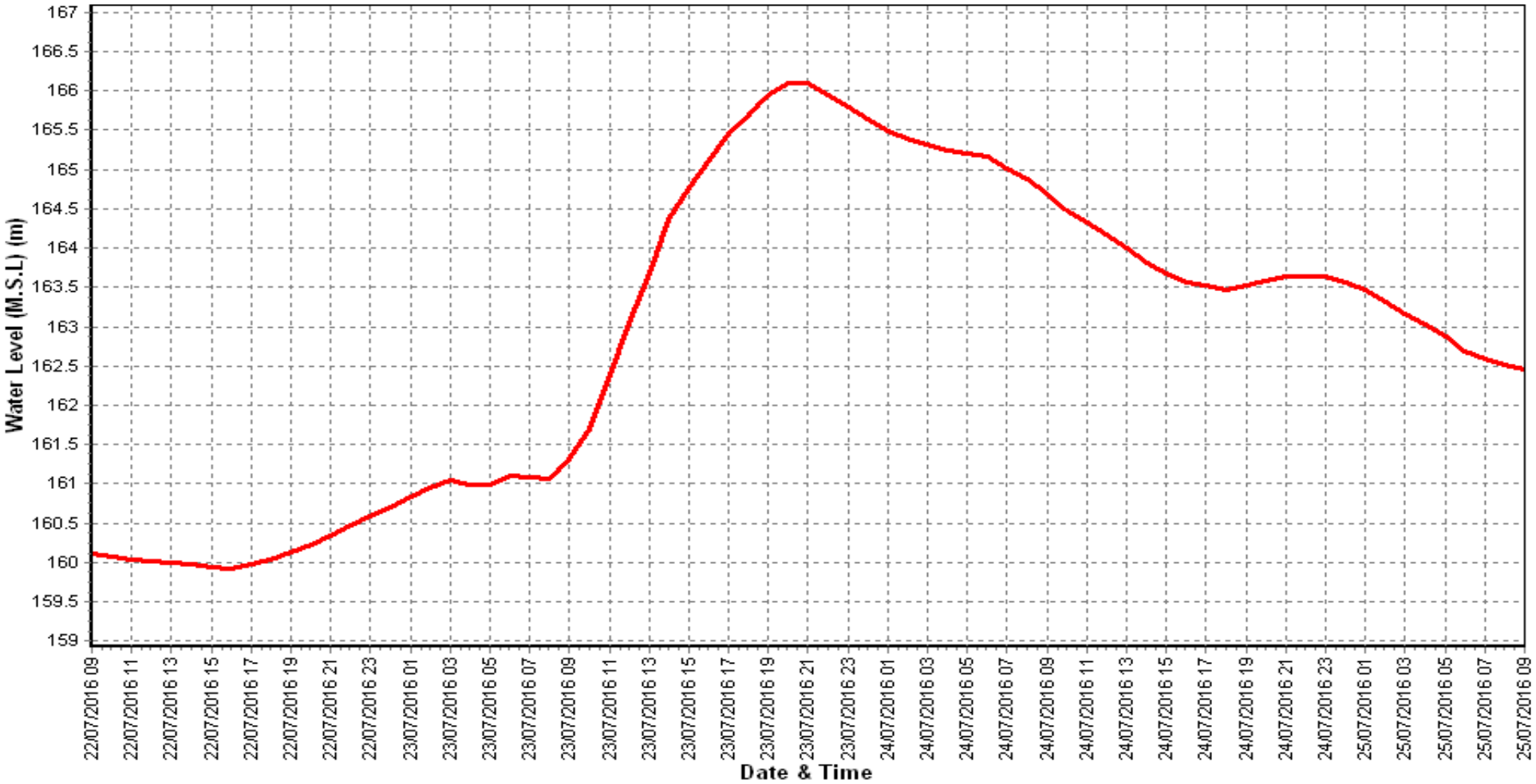


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : BAMNI (AGH30E2) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Wardha Sub-division,Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**P.G.BRIDGE**	**Code**	**:**	**AGH32D5**
State	:	Maharashtra	District		Yeotmal
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:	Penganga	Local River	:	Penganga
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	:	18441 Sq. Km.	Bank	:	Left
Latitude	:	19°49'03"	Longitude	:	78°34'40"
Zero of Gauge (m)	:	196.828 (m.s.l) 198.63 (m.s.l)	25.12.1964 01.12.1992	-	30.11.1992
		Opening Date	Closing Date		
Gauge	:	25.12.1964			
Discharge	:	21.07.1965	**HFL During 2016-17**	**:**	**211.470 Meter**
			Corres.Discharge	**:**	**7061.957 Cumecs(Estimated)**
Sediment	:	19.10.1965	**Date & Time of**	**:**	**12.07.2016**
			Occurance	**:**	**08.00 Hrs.**
Water Quality	:	31.05.1966			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	1670	203.912	16.07.1965	0.000	197.217	10.06.1965
1966-1967	4309	208.821	06.09.1966	0.000	197.528	12.06.1966
1967-1968	2064	202.768	23.06.1967	0.000	197.548	20.05.1968
1968-1969	1746	203.400	05.08.1968	0.000	197.508	05.05.1969
1969-1970	3188	207.073	07.09.1969	0.000	197.572	17.04.1970
1970-1971	5734	211.152	20.08.1970	0.020	197.482	01.06.1970
1971-1972	1046	201.953	28.08.1971	0.000	197.462	19.04.1972
1972-1973	3633	205.352	28.06.1972	0.000	197.448	13.05.1973
1973-1974	3552	207.850	26.08.1973	0.000	197.417	02.06.1973
1974-1975	1142	202.470	10.10.1974	0.000	197.548	16.05.1975
1975-1976	5278	209.515	05.09.1975	0.000	197.633	31.05.1976
1976-1977	6137	210.077	22.07.1976	0.000	197.798	26.05.1977
1977-1978	3642	206.202	04.09.1977	0.000	197.798	08.06.1977
1978-1979	5410	209.038	13.07.1978	1.300	197.758	08.05.1979
1979-1980	4130	207.428	26.06.1979	0.060	197.603	31.05.1980
1980-1981	4873	207.348	23.08.1980	0.100	197.593	01.06.1980
1981-1982	4513	207.828	27.09.1981	0.700	197.698	01.06.1981
1982-1983	1948	203.668	24.07.1982	0.300	197.698	07.05.1983
1983-1984	16000	214.178	11.08.1983	0.200	197.693	13.06.1983
1984-1985	353.4	200.313	19.07.1984	0.000	197.658	06.04.1985
1985-1986	2141	203.623	27.06.1985	0.000	197.688	29.05.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	6561	211.608	23.07.1986	0.000	197.663	02.06.1986
1987-1988	741.2	201.321	25.08.1987	0.000	197.563	09.05.1988
1988-1989	5970	209.628	22.07.1988	0.000	197.583	16.06.1988
1989-1990	5591	211.613	19.08.1989	0.800	197.958	02.06.1989
1990-1991	5520	211.848	30.08.1990	1.800	197.928	04.06.1990
1991-1992	1125	203.063	12.07.1991	0.000	197.683	23.04.1992
1992-1993	4533	207.428	02.09.1992	0.000	197.668	13.06.1992
1993-1994	3676	208.340	31.07.1993	0.000	199.410	11.05.1994
1994-1995	5334	209.950	12.07.1994	0.000	199.375	12.06.1994
1995-1996	6591	213.320	20.10.1995	0.184	199.300	10.05.1996
1996-1997	2082	205.765	17.09.1996	0.067	199.400	28.05.1997
1997-1998	528.1	202.670	23.08.1997	0.000	199.415	15.05.1998
1998-1999	2192	205.645	25.09.1998	0.040	199.540	06.06.1998
1999-2000	4109	207.890	03.08.1999	0.870	199.660	12.06.1999
2000-2001	4658	209.080	19.07.2000	0.000	199.400	16.05.2001
2001-2002	4530	208.565	23.08.2001	0.000	199.450	01.05.2002
2002-2003	8702	213.890	25.08.2002	0.000	199.460	07.06.2002
2003-2004	4118	208.205	09.08.2003	0.000	199.470	24.04.2004
2004-2005	721.3	203.265	06.08.2004	0.000	199.480	16.01.2005
2005-2006	7140	213.355	28.07.2005	0.000	199.505	23.06.2005
2006-2007	13881	217.920	07.08.2006	0.378	199.960	23.05.2007
2007-2008	2877	206.780	07.09.2007	0.001	199.560	12.05.2008
2008-2009	1411	204.330	04.08.2008	0.028	199.725	27.12.2008
2009-2010	833.0	203.530	29.06.2009	0.105	199.680	16.12.2009
2010-2011	6749	211.455	07.08.2010	0.000	199.210	25.06.2010
2011-2012	2405	206.330	26.08.2011	0.000	199.600	14.05.2012
2012-2013	7265	213.465	23.07.2012	0.000	199.490	10.05.2013
2013-2014	9061	214.610	02.08.2013	0.431	199.730	24.02.2014
2014-2015	2607	206.305	08.09.2014	0.000	199.620	28.12.2014
2015-2016	1698	205.400	18.09.2015	0.000	199.520	29.03.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	199.460	0.000	203.500	989.5	203.650	1075	202.220	412.7	201.710	298.3	200.310	17.13 #
2	199.460	0.000	201.740	283.2	203.945	1127	201.860	282.0	201.900	322.5 *	200.270	17.11
3	199.460	0.000	201.240	157.3 *	204.290	1218	201.350	180.2	203.435	967.6	200.220	12.16
4	199.450	0.000	200.990	108.2 #	204.715	1336	201.260	161.6 *	203.200	796.5	200.200	10.63
5	199.460	0.000	202.115	371.0	203.220	883.5	200.960	102.8 *	203.340	844.1	200.170	7.279 #
6	199.460	0.000	201.240	157.3 *	202.630	525.5	200.930	84.28	201.945	350.2	200.150	6.168 *
7	199.460	0.000	200.800	76.20 #	202.400	479.5 *	200.910	72.71	201.720	236.1	200.130	4.635
8	199.460	0.000	200.590	46.83	202.880	658.6	200.810	77.77 #	201.980	360.1	200.110	4.186 #
9	199.470	0.000	201.980	345.9 #	202.130	367.5	200.730	65.63 #	204.370	1337 *	200.080	2.918 #
10	199.480	0.000	202.610	553.2 *	202.150	391.1	200.640	40.60	202.430	466.3	200.060	2.183 #
11	199.470	0.000	204.830	1661	201.690	270.7	200.630	51.71 *	202.970	689.7 *	200.030	1.255 #
12	199.470	0.000	211.370	6125	201.500	215.9	200.580	34.79	201.830	302.7 *	199.980	0.229 #
13	200.280	18.04	204.815	1566	201.385	193.2	200.630	51.71 *	201.485	233.7	200.210	9.730 *
14	200.080	2.918 #	203.120	886.5	201.330	176.9 *	201.110	130.8 #	201.365	186.0	200.240	11.76 *
15	200.010	0.762 #	201.920	293.4	201.280	165.9 *	201.360	183.6 #	201.265	157.2	200.210	9.313
16	199.940	0.000 *	201.790	274.2	201.400	208.1	202.030	334.3	201.170	142.8 *	200.180	8.145
17	199.880	0.000 *	201.450	204.4 *	201.370	193.5	202.000	304.0	201.160	134.2	200.160	6.879
18	199.820	0.000 *	201.280	163.7	201.120	152.1	201.760	283.4 *	200.850	90.37	200.160	6.809
19	199.840	0.000 *	201.580	228.1	201.010	130.3	201.750	280.6 #	200.900	96.19	200.160	6.847
20	201.105	136.3	201.400	184.6	200.960	114.2	201.630	252.6	200.740	74.51	200.170	7.279 *
21	200.690	59.90 #	201.310	180.5	200.910	94.15 *	201.695	284.2	200.670	57.11 #	200.210	9.089
22	200.560	42.82 #	201.290	161.6	200.860	89.25	201.720	288.2	200.975	97.96	200.210	9.003
23	201.110	140.6	206.670	2838	200.820	77.30	202.605	499.4	200.800	76.20 *	200.200	8.801
24	200.720	64.18 #	202.730	597.3 *	200.990	119.9	201.950	300.7	200.880	92.08	200.200	8.766
25	200.410	20.91	203.345	867.6	200.925	89.83	202.480	507.1 *	200.795	77.85	200.200	8.827
26	201.040	117.4 *	203.590	930.2	200.820	79.06	204.230	1236	200.770	75.12	200.180	7.529
27	201.140	154.5	203.245	897.7	200.760	67.65	202.495	488.5	200.690	53.31	200.190	8.467 *
28	201.670	267.1	204.030	1205	200.860	85.79 *	202.205	385.0	200.570	48.66	200.170	7.296
29	201.970	345.3	203.160	842.1	200.870	87.96	201.900	325.3	200.500	39.92	200.170	7.276
30	203.045	804.7	204.030	1185	200.770	70.27	201.450	217.7	200.440	29.26 *	200.180	7.817
31			202.550	531.7 *	200.750	58.47			200.370	22.39 #		
Ten-Daily Mean												
I Ten-Daily	199.462	0.000	201.680	308.9	203.201	806.2	201.167	148.0	202.603	597.8	200.170	8.440
II Ten-Daily	199.989	15.80	203.355	1159	201.305	182.1	201.348	190.8	201.374	210.7	200.150	6.825
III Ten-Daily	201.236	201.7	203.268	930.7	200.849	83.60	202.273	453.2	200.678	60.90	200.191	8.287
Monthly												
Min.	199.450	0.000	200.590	46.83	200.750	58.47	200.580	34.79	200.370	22.39	199.980	0.229
Max.	203.045	804.7	211.370	6125	204.715	1336	204.230	1236	204.370	1337	200.310	17.13
Mean	200.229	72.51	202.784	803.7	201.755	348.5	201.596	264	201.523	282.4	200.170	7.851

Annual Runoff in MCM = 4770 Annual Runoff in mm = 259

Peak Observed Discharge = 6125 cumecs on 12/07/2016 Corres. Water Level :211.37 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016 Corres. Water Level :199.46 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	200.180	6.997	200.150	5.499 *	199.880	0.737	200.000	2.199	199.860	0.556 #	199.680	0.000
2	200.180	6.911	200.200	7.636	199.860	0.641	200.000	2.169	199.810	0.322 *	199.680	0.000
3	200.180	6.938	200.190	7.080	199.850	0.535	199.990	2.040	199.790	0.260	199.680	0.000
4	200.180	6.476 *	200.190	6.872	199.840	0.321	199.970	1.784	199.760	0.134	199.680	0.000
5	200.180	7.043	200.190	6.952	199.830	0.337 *	199.960	1.543 *	199.740	0.000	199.670	0.000
6	200.190	7.372	200.190	7.090	199.810	0.237	199.920	1.175	199.740	0.000	199.670	0.000
7	200.180	6.884	200.210	7.663	199.810	0.232	199.890	0.755	199.730	0.000	199.670	0.000
8	200.180	6.803	200.210	7.549 *	199.810	0.227	199.860	0.549	199.720	0.000	199.660	0.000
9	200.200	7.418	200.210	7.093	200.090	4.038	199.840	0.507	199.720	0.000	199.660	0.000
10	200.190	6.878	200.200	6.821	200.120	4.605	199.830	0.365	199.700	0.000	199.660	0.000
11	200.180	6.476 *	200.190	6.169	200.090	4.014	199.810	0.322 #	199.690	0.000	199.660	0.000
12	200.180	6.476 *	200.190	6.194	200.070	3.346 *	199.790	0.245 *	199.680	0.000	199.660	0.000
13	200.120	4.480	200.190	6.452	200.020	2.538	199.780	0.211 *	199.670	0.000	199.660	0.000
14	200.100	4.067	200.190	6.109	200.010	2.375	199.760	0.148	199.660	0.000	199.660	0.000
15	200.110	4.196	200.170	6.139 *	199.990	2.056	199.750	0.130	199.660	0.000	199.660	0.000
16	200.110	4.154	200.120	4.661	199.980	1.789	199.740	0.105	199.650	0.000	199.690	0.000
17	200.110	4.203	200.110	4.385	199.940	1.417	199.750	0.109	199.680	0.000	199.710	0.000
18	200.110	4.342 *	200.090	3.933	199.970	1.585	199.740	0.097	199.710	0.000	199.710	0.000
19	200.110	4.242	200.060	3.377	199.990	1.960 *	199.741	0.100 *	199.720	0.000	199.930	2.219
20	200.110	4.277	200.050	3.180	200.010	2.214	199.720	0.056 #	199.720	0.000	199.960	2.612
21	200.110	4.252	200.040	2.773	200.020	2.499	199.720	0.000	199.720	0.000	200.000	3.212 *
22	200.110	4.271	200.040	2.780 *	200.030	2.659	199.710	0.000	199.720	0.000	200.080	4.266
23	200.110	4.222	200.000	1.720	200.030	2.642	199.710	0.000	199.720	0.000	199.940	2.470
24	200.120	4.421	199.990	1.657	200.030	2.609	199.700	0.000	199.710	0.000	199.890	1.527
25	200.120	4.617 *	199.990	1.644	200.020	2.528	199.910	0.890	199.700	0.000	199.880	1.383
26	200.120	4.574	199.990	1.960 *	200.010	2.270 *	199.950	1.128 *	199.690	0.000	199.840	1.091
27	200.120	4.516	199.960	1.351	200.010	2.282	199.960	1.105	199.690	0.000	199.830	0.979
28	200.120	4.539	199.950	1.227	200.010	2.285	199.960	1.203 *	199.690	0.000	199.810	0.733 *
29	200.110	4.232	199.940	1.294 *			199.950	1.057	199.690	0.000	199.810	0.733 #
30	200.110	4.324	199.910	0.902			199.940	1.049	199.690	0.000	199.790	0.505
31	200.120	4.286	199.890	0.797			199.910	0.944			199.800	0.649 #
Ten-Daily Mean												
I Ten-Daily	200.184	6.972	200.194	7.025	199.890	1.191	199.926	1.309	199.757	0.127	199.671	0.000
II Ten-Daily	200.124	4.691	200.136	5.060	200.007	2.330	199.758	0.152	199.684	0.000	199.730	0.483
III Ten-Daily	200.115	4.387	199.973	1.646	200.020	2.472	199.856	0.671	199.702	0.000	199.879	1.595
Monthly												
Min.	200.100	4.067	199.890	0.797	199.810	0.227	199.700	0.000	199.650	0.000	199.660	0.000
Max.	200.200	7.418	200.210	7.663	200.120	4.605	200.000	2.199	199.860	0.556	200.080	4.266
Mean	200.140	5.319	200.097	4.483	199.969	1.964	199.847	0.709	199.714	0.042	199.764	0.722

Peak Computed Discharge = 1337 cumecs on 09/10/2016 Corres. Water Level :204.37 m

Lowest Computed Discharge = 0.000 cumecs on 16/06/2016 Corres. Water Level :199.94 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

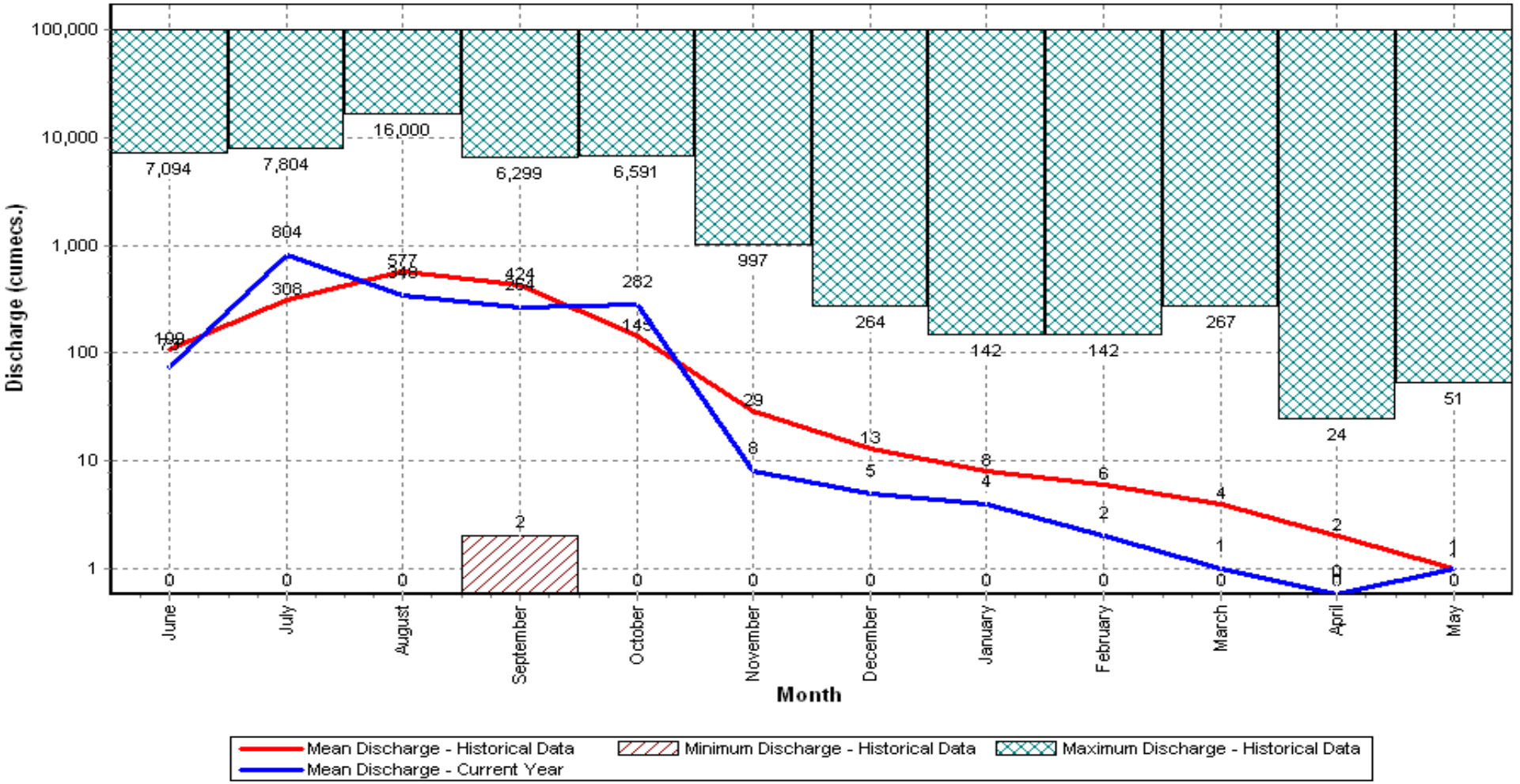
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : P.G.BRIDGE (AGH32D5) | **Data considered : 1965-2017** | **Division : Wainganga Div., Nagpur**

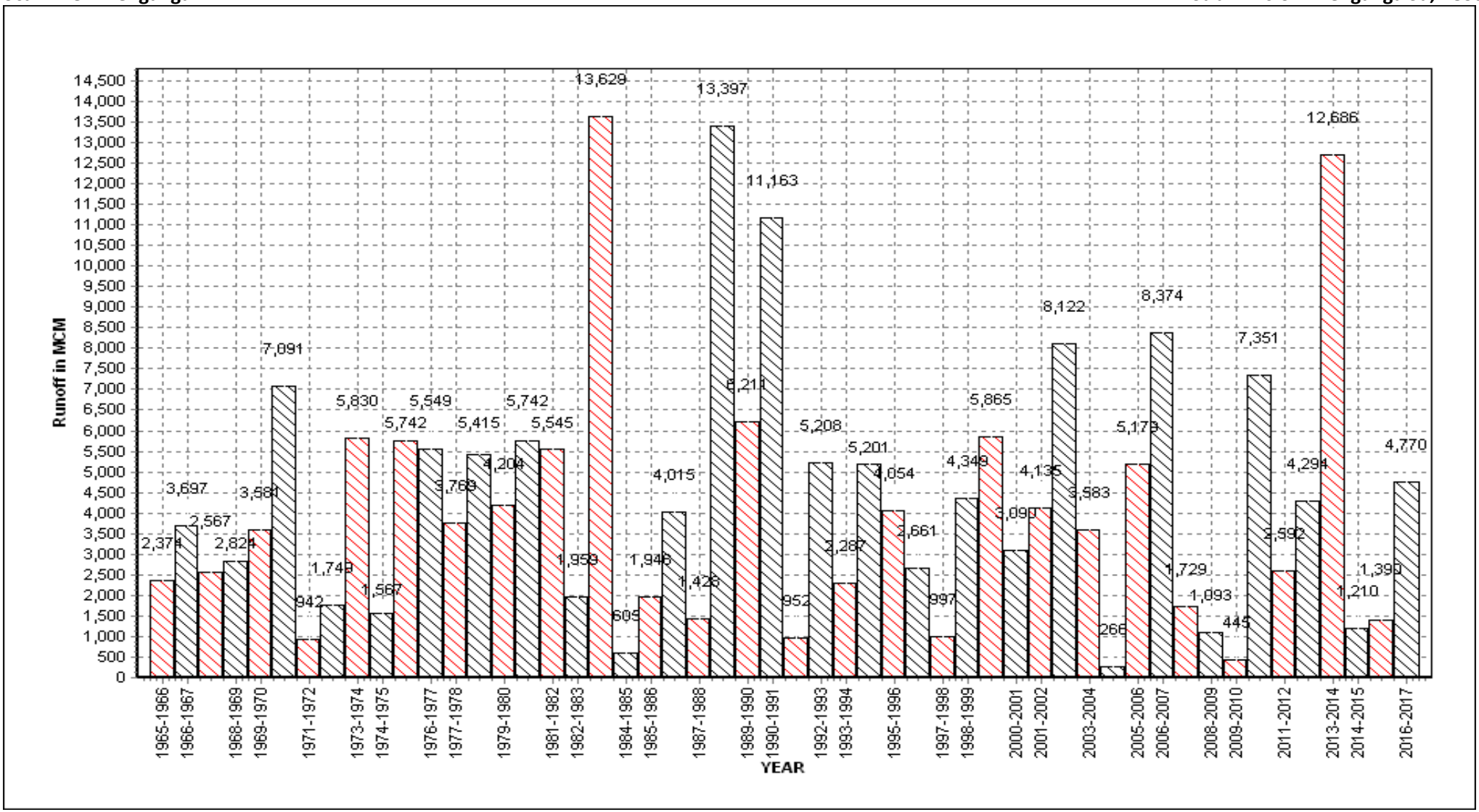
Local River : Penganga | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1965 - 2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

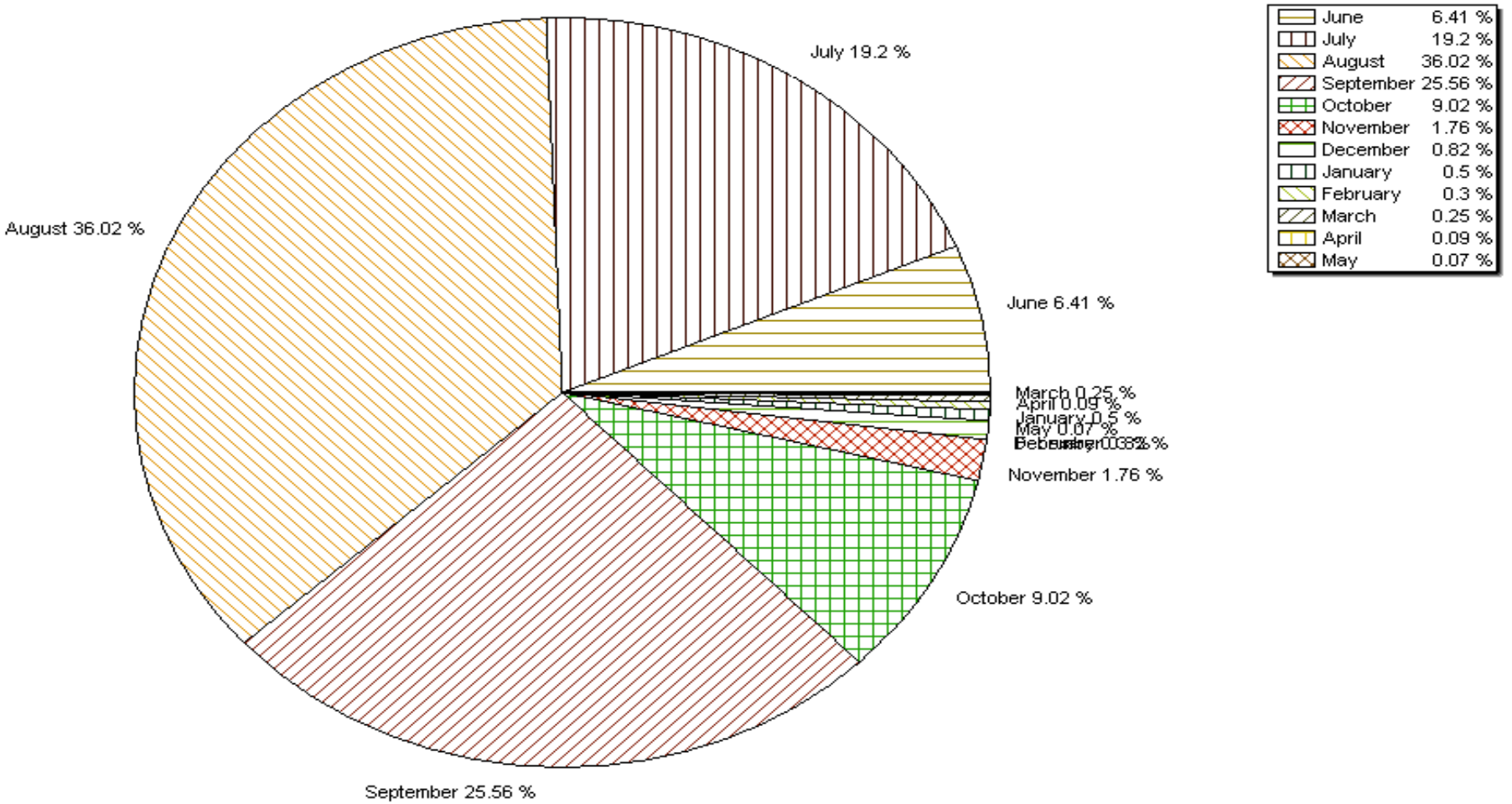


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1965-2016

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

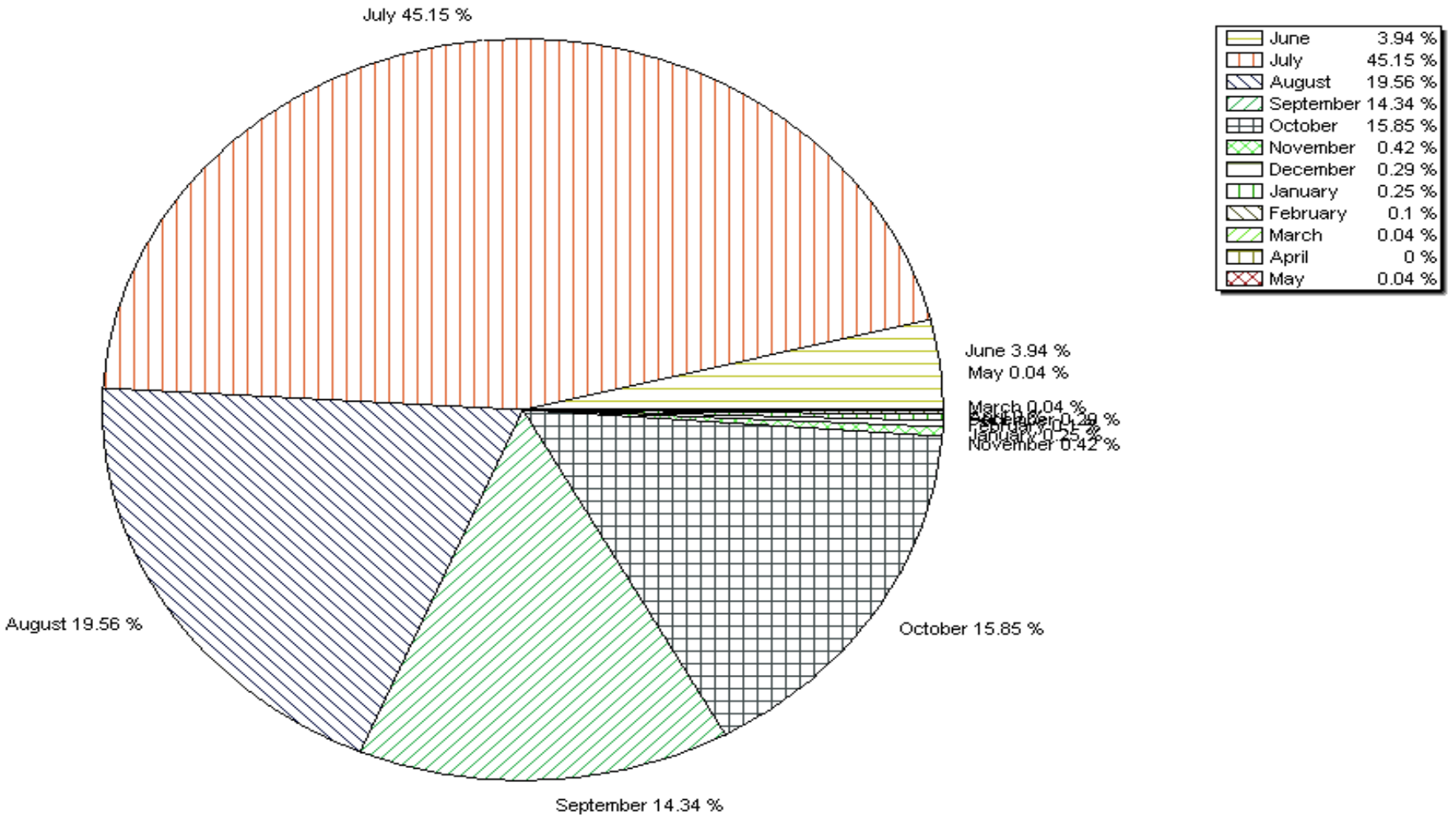
Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Monthly Runoff for the Year : 2016-2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

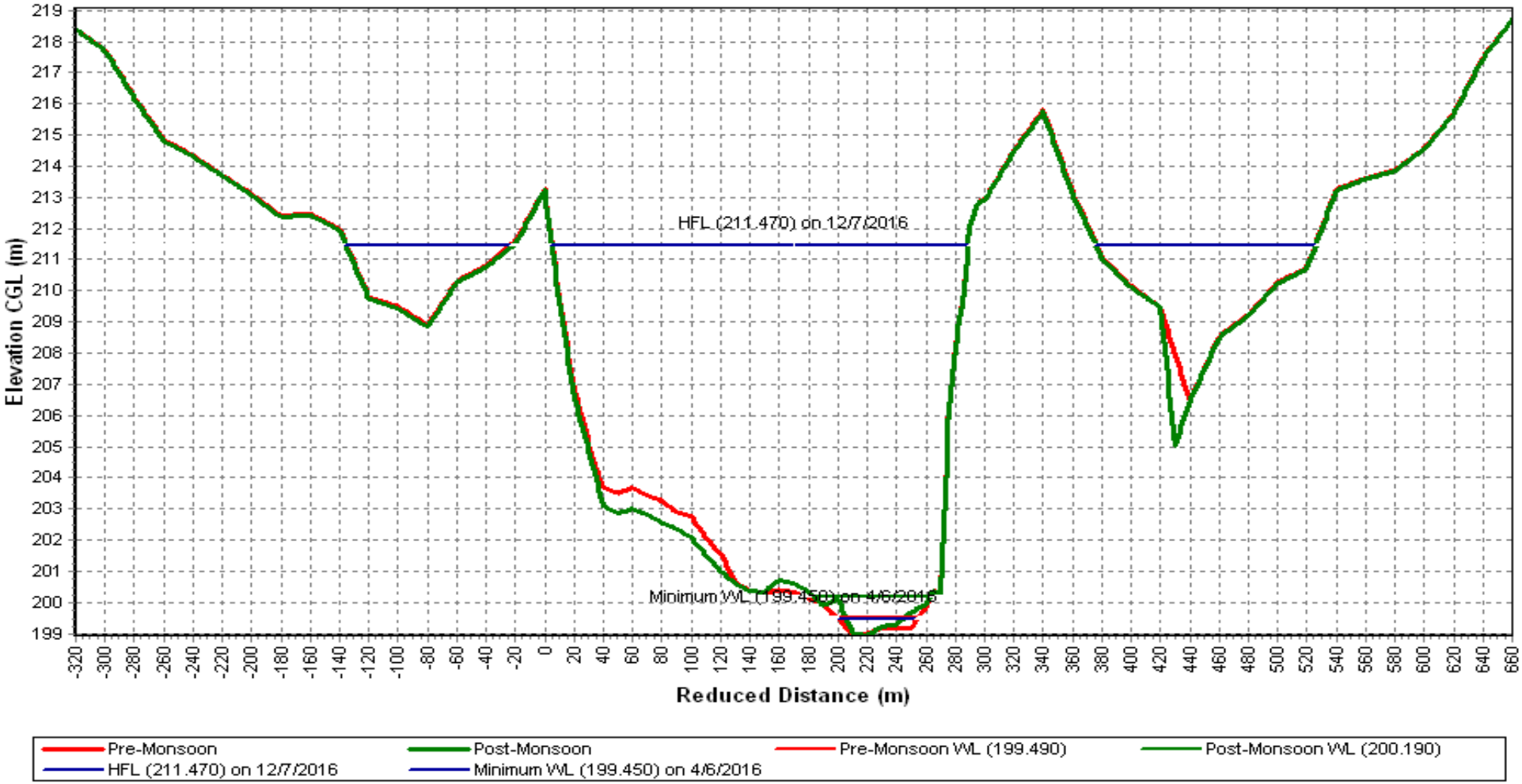
Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

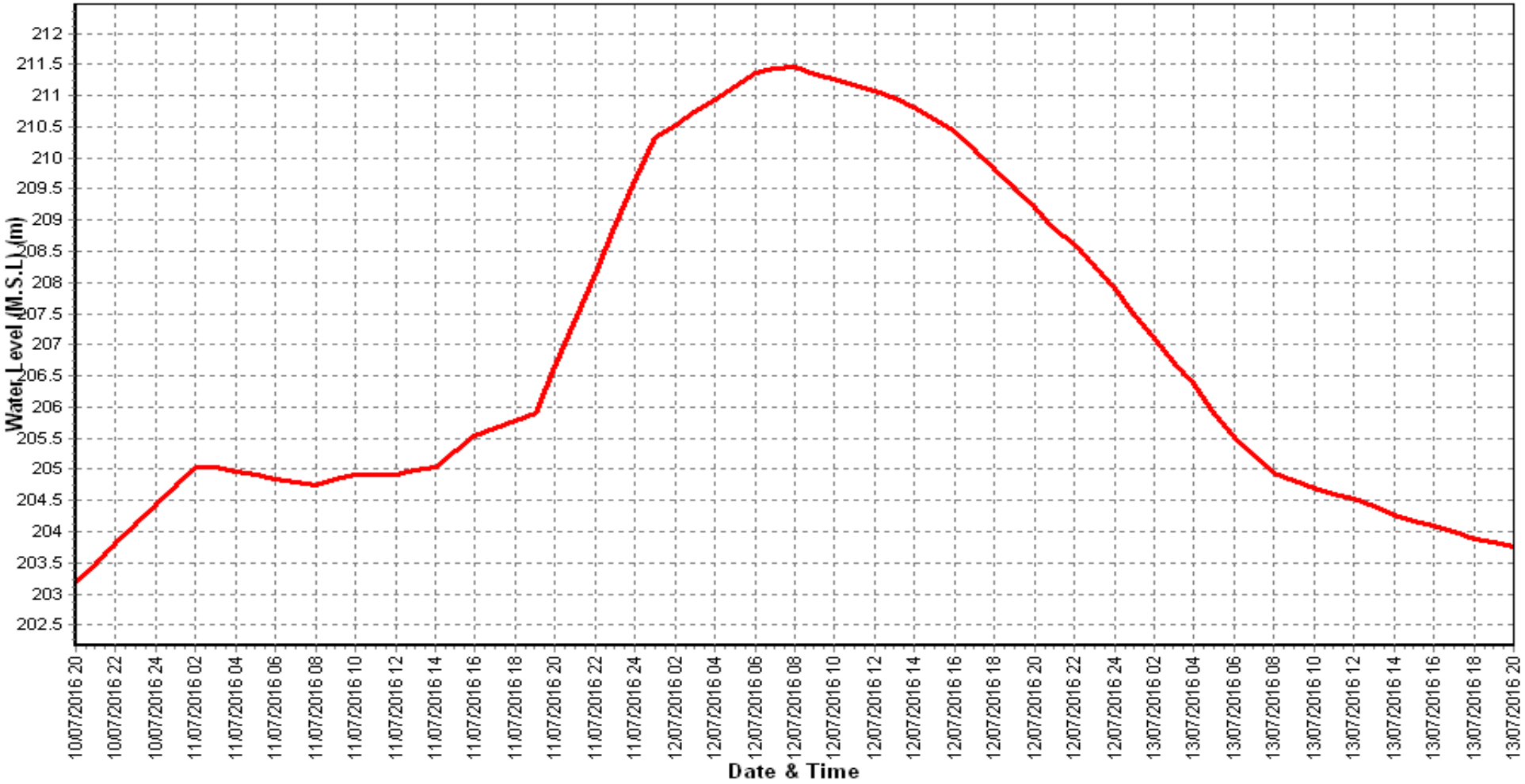
Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

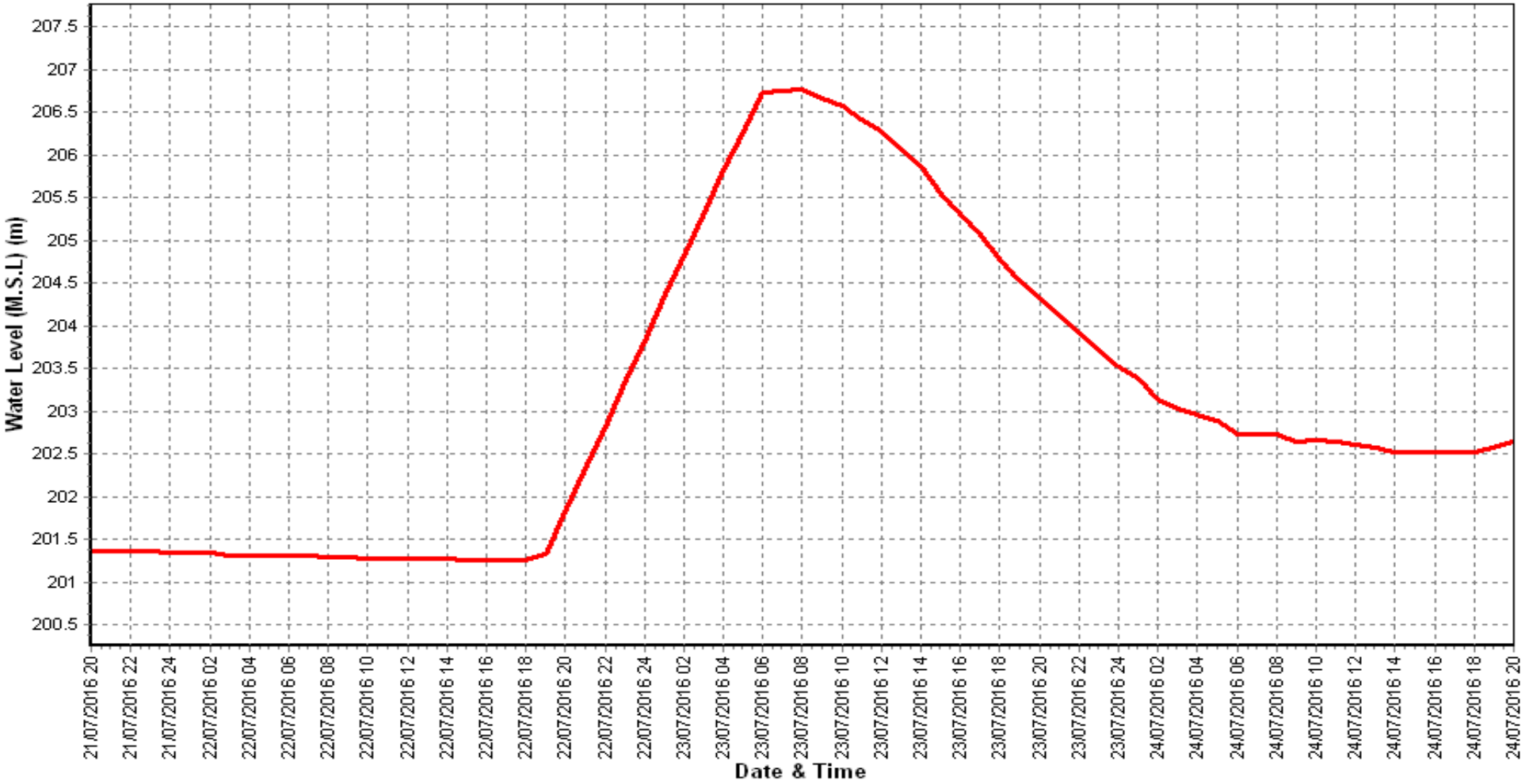


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

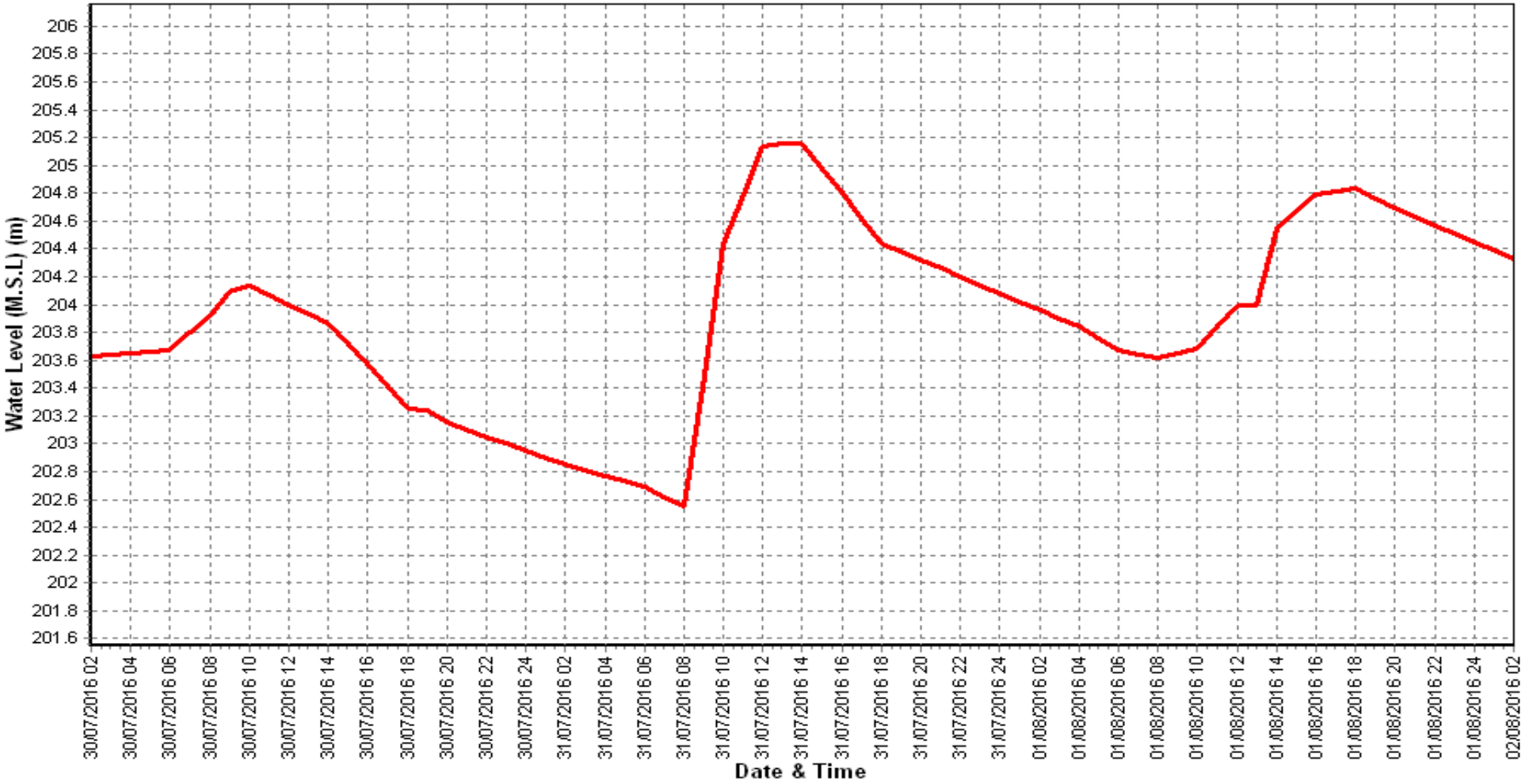


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : P.G.BRIDGE (AGH32D5) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: MANGRUL**		**Code**	**: AGH35G0**	
State	: Maharashtra		District	Yeotmal	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wardha	
Sub-Sub Tributary	: Penganga		Local River	: Aran	
Division	: Wainganga Div., Nagpur		Sub-Division	: Penganga Sd, Yeotmal	
Drainage Area	: 2500 Sq. Km.		Bank	: Right	
Latitude	: 20°11'19"		Longitude	: 77°59'12"	
Zero of Gauge (m)	: 180 (m.s.l) 279.375 (m.s.l)		09.11.1992 01.06.1996	- 31.05.1996	
	Opening Date		Closing Date		
Gauge	: 09.11.1992				
Discharge	: 09.11.1992		**HFL During 2016-17**	**: 287.175 Meter**	
			Corres.Discharge	**: 1838.568 Cumecs(Estimated)**	
Sediment	:		**Date & Time of**	**: 30.06.2016**	
			Occurance	**: 12.00 Hrs.**	
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1993-1994	323.9	185.390	19.06.1993	0.010	181.480	03.02.1994
1994-1995	602.8	188.255	31.08.1994	0.035	181.510	03.06.1994
1995-1996	698.4	188.110	02.09.1995	0.075	181.400	31.05.1996
1996-1997	152.9	283.135	08.09.1996	0.000	280.745	05.07.1996
1997-1998	84.33	282.750	08.07.1997	0.000	280.975	12.02.1998
1998-1999	299.2	284.730	11.08.1998	0.000	280.705	20.04.1999
1999-2000	478.6	285.740	10.08.1999	0.000	280.735	09.06.1999
2000-2001	1039	289.885	19.07.2000	0.000	280.835	02.04.2001
2001-2002	732.7	286.875	15.06.2001	0.000	280.785	09.04.2002
2002-2003	1151	290.375	26.08.2002	0.000	280.525	10.04.2003
2003-2004	58.03	282.515	22.08.2003	0.000	280.635	04.04.2004
2004-2005	12.79	281.605	05.08.2004	0.000	280.505	25.01.2005
2005-2006	732.5	288.095	28.07.2005	0.000	280.575	05.12.2005
2006-2007	1211	290.125	07.08.2006	0.000	280.625	07.11.2006
2007-2008	251.3	284.275	02.09.2007	0.000	280.485	10.06.2007
2008-2009	27.55	282.125	27.07.2008	0.007	280.615	15.06.2008
2009-2010	154.0	283.475	28.06.2009	0.184	280.715	27.08.2009
2010-2011	306.4	283.575	10.09.2010	0.000	280.815	12.02.2011
2011-2012	173.8	283.025	11.09.2011	0.000	280.985	11.03.2012
2012-2013	454.9	285.675	05.09.2012	0.000	281.525	17.01.2013
2013-2014	997.0	288.895	16.06.2013	0.000	281.315	31.01.2014

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2014-2015	262.5	283.895	31.08.2014	0.000	280.725	10.02.2015
2015-2016	953.5	285.115	18.09.2015	0.000	280.245	12.06.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	279.375	0.000	281.150	10.44	282.285	82.39	281.515	34.10	281.725	40.78	280.595	1.895 #
2	279.375	0.000	280.865	4.276	282.235	76.96	281.185	14.77	282.245	76.96 *	280.625	2.205 #
3	279.375	0.000	281.675	34.42 *	282.215	73.19	281.105	9.721	282.925	156.4	280.545	1.439 #
4	279.375	0.000	280.835	3.007	282.305	92.72	281.005	8.825 *	281.885	46.21	280.525	1.653
5	279.375	0.000	282.150	83.85	282.085	65.15	280.915	6.770 *	282.105	70.16	280.495	1.056 #
6	279.375	0.000	280.995	6.113 *	282.335	96.09	280.825	3.875	282.025	55.12	280.475	0.000
7	279.375	0.000	280.795	2.441	283.475	275.0 *	280.755	3.503	281.905	45.76	280.415	0.000
8	279.375	0.000	280.735	1.746	282.500	116.9	280.685	2.977	281.660	35.50	280.365	0.000
9	279.375	0.000	282.125	76.61	283.555	292.4 *	280.635	2.405	281.775	41.48 *	280.345	0.000
10	279.375	0.000	281.035	7.057 *	282.365	100.9	280.615	2.613	282.185	71.04	280.415	0.000
11	279.375	0.000	282.390	110.1	282.040	58.81	280.595	1.895 *	281.615	32.26 *	280.365	0.000
12	279.375	0.000	284.375	508.7 *	281.955	48.44	280.555	1.921	281.585	30.68 *	280.375	0.000
13	279.375	0.000	281.865	44.50	281.915	45.36	280.515	1.201 *	281.525	34.37	279.375	0.000
14	279.375	0.000	281.260	11.11	281.815	44.01 *	281.085	9.957	281.315	20.30	279.375	0.000
15	279.375	0.000	281.155	9.762	281.625	32.80 *	281.205	14.82	281.245	17.49	279.375	0.000
16	279.375	0.000	281.085	7.891	281.565	36.30	281.945	45.63	281.365	20.52 *	279.375	0.000
17	279.375	0.000	281.775	41.03 *	281.305	20.94	281.505	33.53	281.215	16.30	280.345	0.000
18	279.375	0.000	281.780	41.85	281.295	18.67	281.295	17.79 *	281.165	11.39	280.365	0.000
19	281.605	30.20 *	281.235	13.59	281.255	17.18	281.135	10.41	281.175	12.57	280.395	0.000
20	281.715	43.28	281.115	9.290	281.215	15.84	281.115	9.987	281.065	9.361	279.375	0.000
21	280.825	3.273	281.055	7.028	281.185	13.95 *	281.575	38.25	281.105	10.04	279.375	0.000
22	280.875	4.159	281.045	6.721	281.125	10.05	281.265	17.39	280.975	7.334	279.375	0.000
23	280.845	3.817	282.045	67.21	281.055	9.340	281.165	10.86	280.885	6.156 *	279.375	0.000
24	280.665	1.315	281.195	11.66 *	281.045	8.350	281.175	11.22	280.855	5.357	279.375	0.000
25	281.965	55.02	281.185	11.79	281.065	9.995	281.165	13.31 *	280.825	5.092	279.375	0.000
26	282.025	60.64 *	281.290	16.21	280.995	8.913	282.150	67.16	280.805	4.794	279.375	0.000
27	280.945	5.155	281.895	48.16	280.925	6.849	281.825	51.47	280.765	4.524	279.375	0.000
28	281.375	18.54 #	281.675	37.33	280.895	6.356 *	281.635	40.96	280.735	4.019	279.375	0.000
29	280.995	5.733	281.705	39.01	281.125	10.43	281.495	33.34	280.685	3.582	279.375	0.000
30	284.065	418.6 *	281.305	14.76	281.075	9.892	281.305	18.16 #	280.635	2.314 *	279.375	0.000
31			283.015	186.8 *	281.005	8.915			280.615	2.098 #		
Ten-Daily Mean												
I Ten-Daily	279.375	0.000	281.236	22.99	282.535	127.2	280.924	8.957	282.044	63.94	280.480	0.825
II Ten-Daily	281.660	7.347	281.803	79.78	281.599	33.84	281.095	14.71	281.327	20.52	280.369	0.000
III Ten-Daily	281.458	57.63	281.583	40.61	281.045	9.368	281.476	30.21	280.808	5.028	279.375	0.000
Monthly												
Min.	280.665	0.000	280.735	1.746	280.895	6.356	280.515	1.201	280.615	2.098	279.375	0.000
Max.	284.065	418.6	284.375	508.7	283.555	292.4	282.150	67.16	282.925	156.4	280.625	2.205
Mean	281.492	21.66	281.542	47.56	281.704	55.26	281.165	17.96	281.374	29.03	280.443	0.275

Annual Runoff in MCM = 459 Annual Runoff in mm = 184

Peak Observed Discharge = 156.4 cumecs on 03/10/2016 Corres. Water Level :282.925 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May		
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q	
1	279.375	0.000	281.325	0.000	281.345	0.000	280.725	0.000	280.575	0.000	280.725	0.000	
2	279.375	0.000	281.485	0.000	281.345	0.000	280.655	0.000	280.555	0.000	280.675	0.000	
3	279.375	0.000	281.455	0.000	281.345	0.000	280.575	0.000	280.525	0.000	280.615	0.000	
4	279.375	0.000	281.265	0.000	281.345	0.000	279.375	0.000	280.465	0.000	280.785	0.000	
5	279.375	0.000	281.215	0.000	281.335	0.000	279.375	0.000	280.425	0.000	280.725	0.000	
6	279.375	0.000	281.185	0.000	281.325	0.000	279.375	0.000	280.575	0.000	280.775	0.000	
7	279.375	0.000	281.105	0.000	281.315	0.000	279.375	0.000	280.625	0.000	280.855	0.000	
8	279.375	0.000	281.035	0.000	281.295	0.000	280.885	0.000	280.695	0.000	280.915	6.705	
9	281.285	0.000	280.815	0.000	281.225	0.000	280.845	0.000	280.635	0.000	280.775	4.614	
10	280.585	0.000	280.715	0.000	281.165	0.000	280.775	0.000	280.575	0.000	280.855	5.617	*
11	280.595	0.000	281.035	0.000	281.065	0.000	280.725	0.000	280.615	0.000	280.715	3.625	
12	280.635	0.000	281.535	0.000	281.135	0.000	280.825	0.000	280.655	0.000	280.615	3.004	
13	280.675	0.000	281.335	0.000	281.165	0.000	280.825	0.000	280.725	0.000	280.565	2.279	
14	280.935	0.000	281.365	0.000	281.335	0.000	280.775	0.000	280.835	0.000	280.535	2.053	*
15	281.105	0.000	281.255	0.000	281.295	0.000	280.795	0.000	280.775	0.000	280.525	0.000	
16	281.135	0.000	281.295	0.000	281.305	0.000	280.865	0.000	280.755	0.000	280.505	0.000	
17	281.135	0.000	281.335	0.000	281.305	0.000	280.895	0.000	280.855	0.000	280.445	0.000	
18	281.215	0.000	281.335	0.000	281.305	0.000	280.935	0.000	280.795	0.000	280.405	0.000	
19	281.185	0.000	281.375	0.000	281.305	0.000	280.915	0.000	280.765	0.000	280.385	0.000	
20	281.275	0.000	281.475	0.000	281.265	0.000	280.855	0.000	280.825	0.000	280.455	0.000	
21	281.225	0.000	281.365	0.000	281.275	0.000	280.825	0.000	280.875	0.000	280.415	0.000	
22	281.145	0.000	281.315	0.000	281.265	0.000	280.835	0.000	280.895	0.000	280.425	0.000	
23	281.105	0.000	281.285	0.000	281.235	0.000	280.775	0.000	280.865	0.000	280.465	0.000	
24	280.965	0.000	281.275	0.000	281.165	0.000	280.775	0.000	280.825	0.000	280.635	0.000	
25	281.025	0.000	281.255	0.000	281.045	0.000	280.685	0.000	280.725	0.000	280.605	0.000	
26	281.105	0.000	281.255	0.000	280.995	0.000	280.655	0.000	280.735	0.000	280.655	0.000	
27	281.545	0.000	281.205	0.000	280.945	0.000	280.615	0.000	279.375	0.000	280.725	0.000	
28	281.575	0.000	281.305	0.000	280.875	0.000	280.585	0.000	279.375	0.000	280.655	0.000	
29	281.535	0.000	281.275	0.000			280.565	0.000	279.375	0.000	280.575	0.000	
30	281.515	0.000	281.365	0.000			280.535	0.000	279.375	0.000	280.515	0.000	
31	281.455	0.000	281.355	0.000			280.555	0.000			280.455	0.000	
Ten-Daily Mean													
I Ten-Daily	280.935	0.000	281.160	0.000	281.304	0.000	280.743	0.000	280.565	0.000	280.770	1.694	
II Ten-Daily	280.989	0.000	281.334	0.000	281.248	0.000	280.841	0.000	280.760	0.000	280.515	1.096	
III Ten-Daily	281.290	0.000	281.296	0.000	281.100	0.000	280.673	0.000	280.820	0.000	280.557	0.000	
Monthly													
Min.	280.585	0.000	280.715	0.000	280.875	0.000	280.535	0.000	280.425	0.000	280.385	0.000	
Max.	281.575	0.000	281.535	0.000	281.345	0.000	280.935	0.000	280.895	0.000	280.915	6.705	
Mean	281.128	0.000	281.264	0.000	281.226	0.000	280.751	0.000	280.699	0.000	280.612	0.900	

Peak Computed Discharge = 508.7 cumecs on 12/07/2016 Corres. Water Level :284.375 m

Lowest Computed Discharge = 1.201 cumecs on 13/09/2016 Corres. Water Level :280.515 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

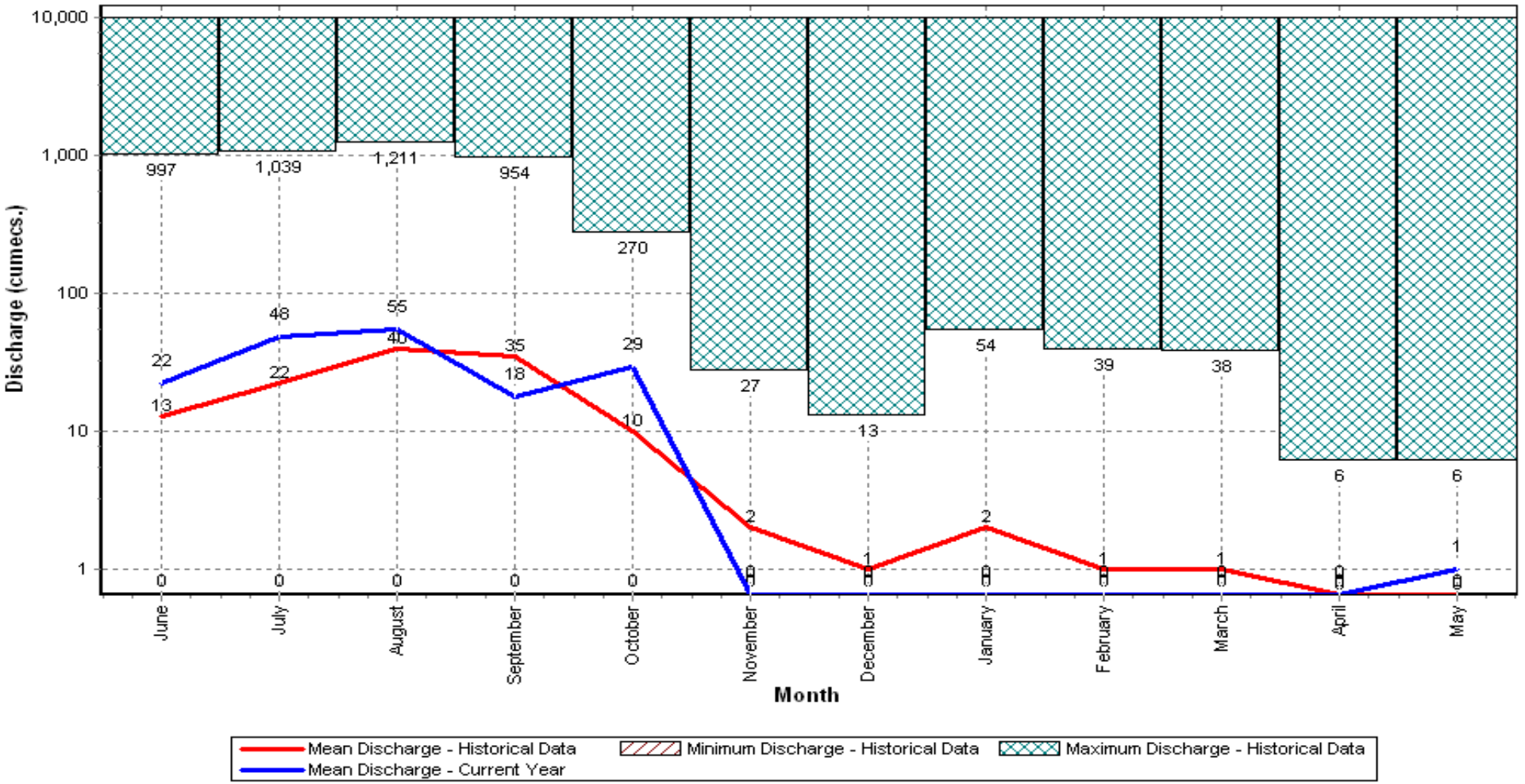
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : MANGRUL (AGH35G0) **Data considered : 1993-2017** **Division : Wainganga Div., Nagpur**

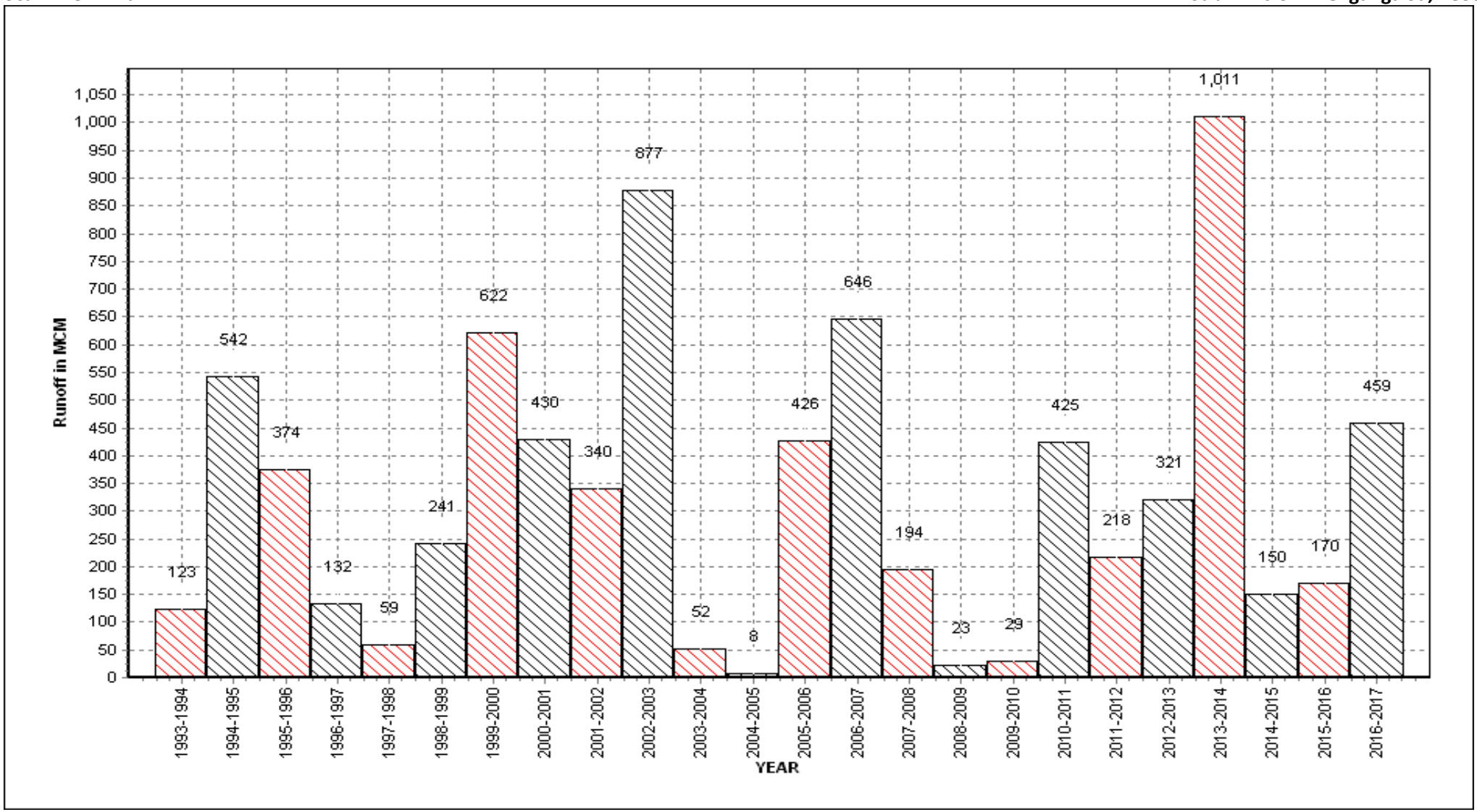
Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1993 - 2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

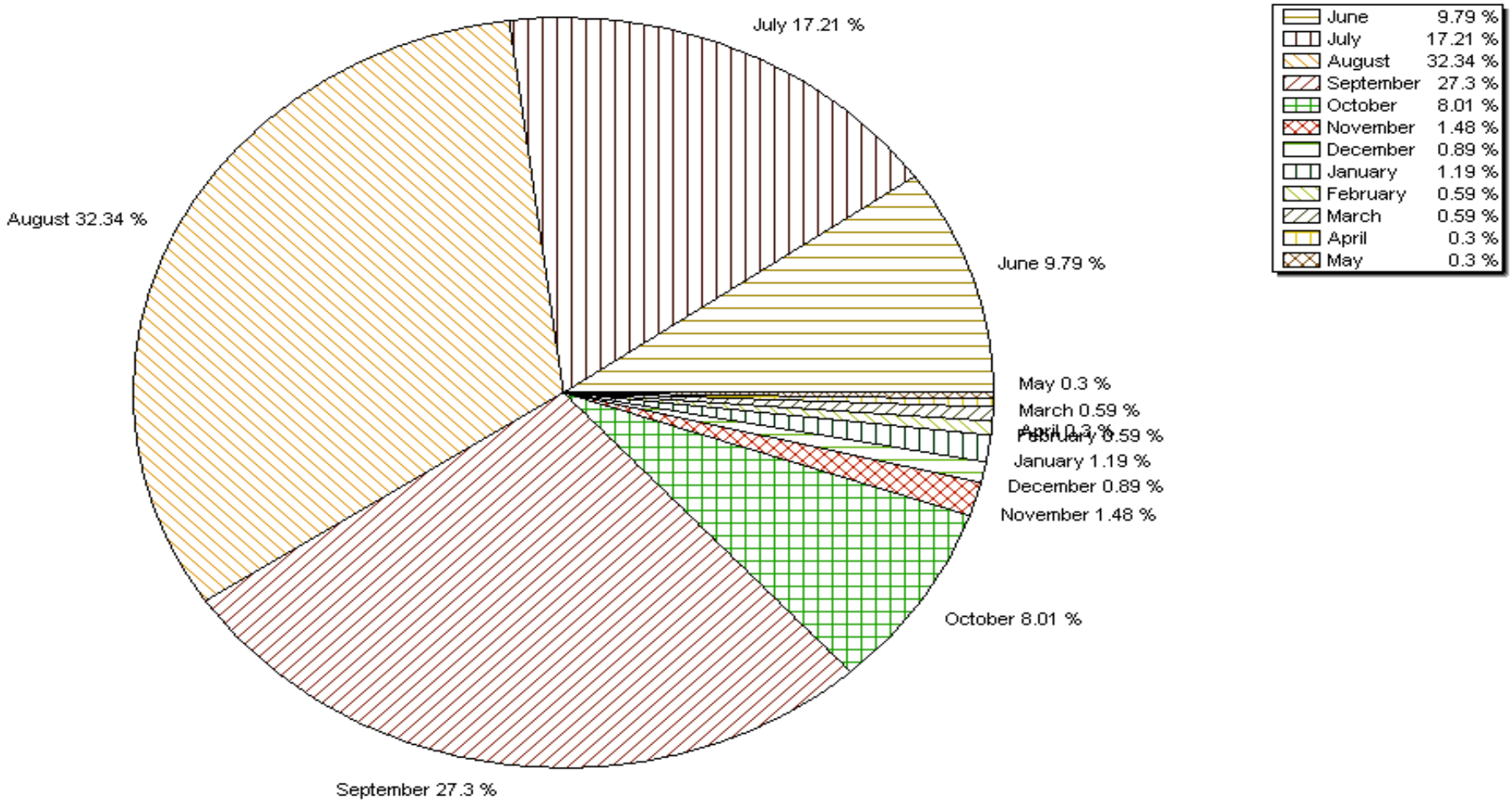


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1993-2016

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

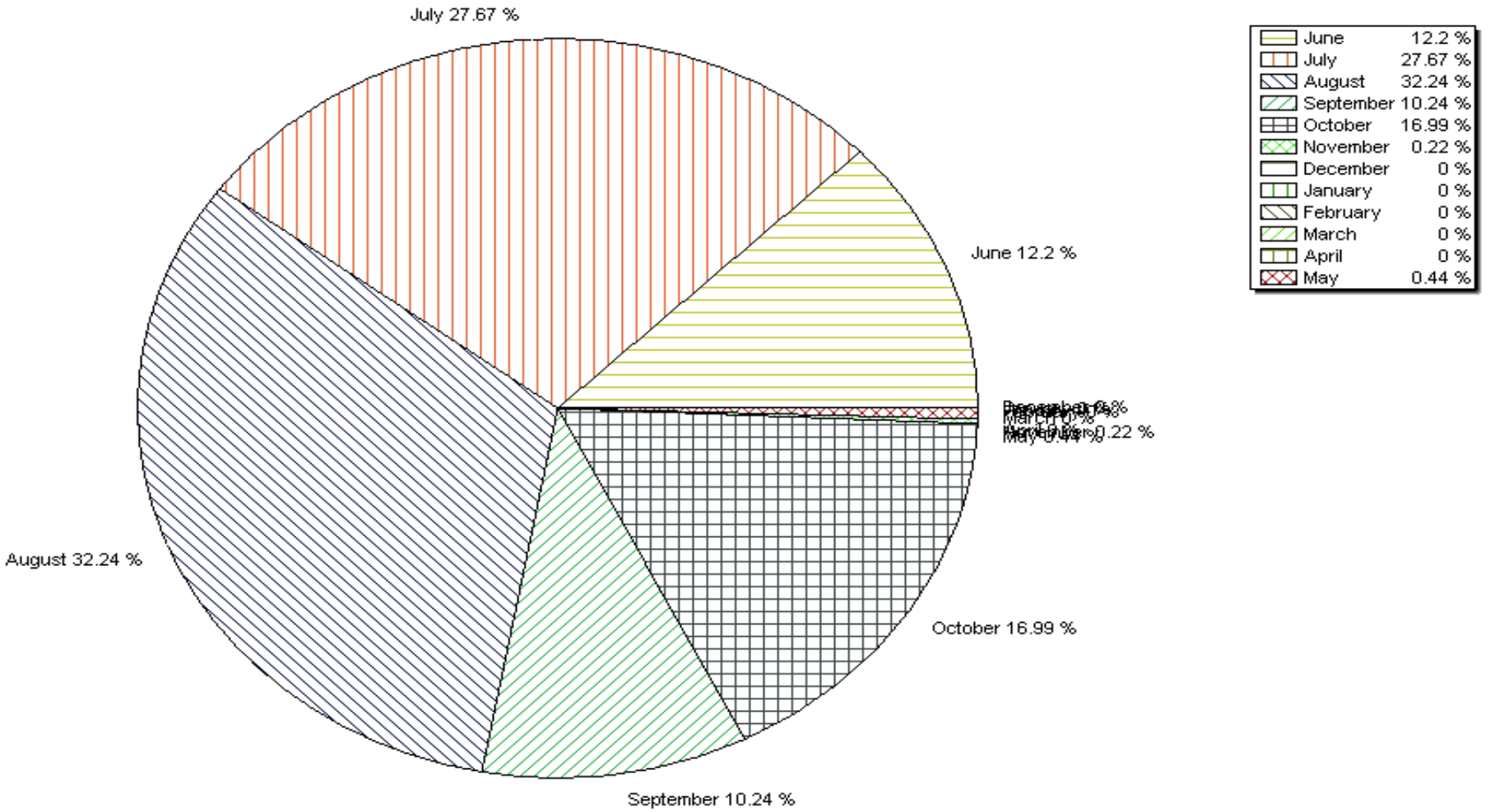
Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



Monthly Runoff for the Year : 2016-2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

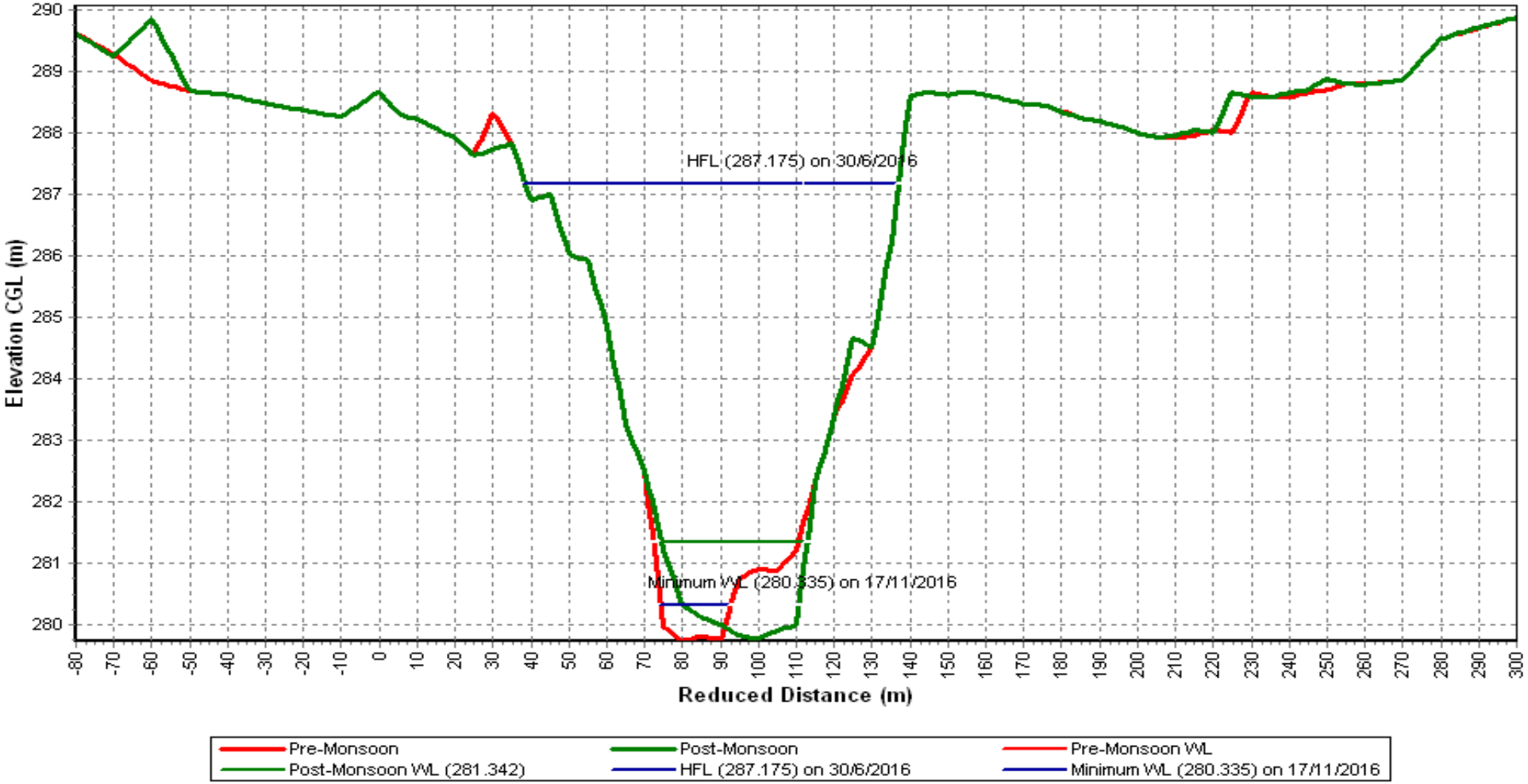
Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

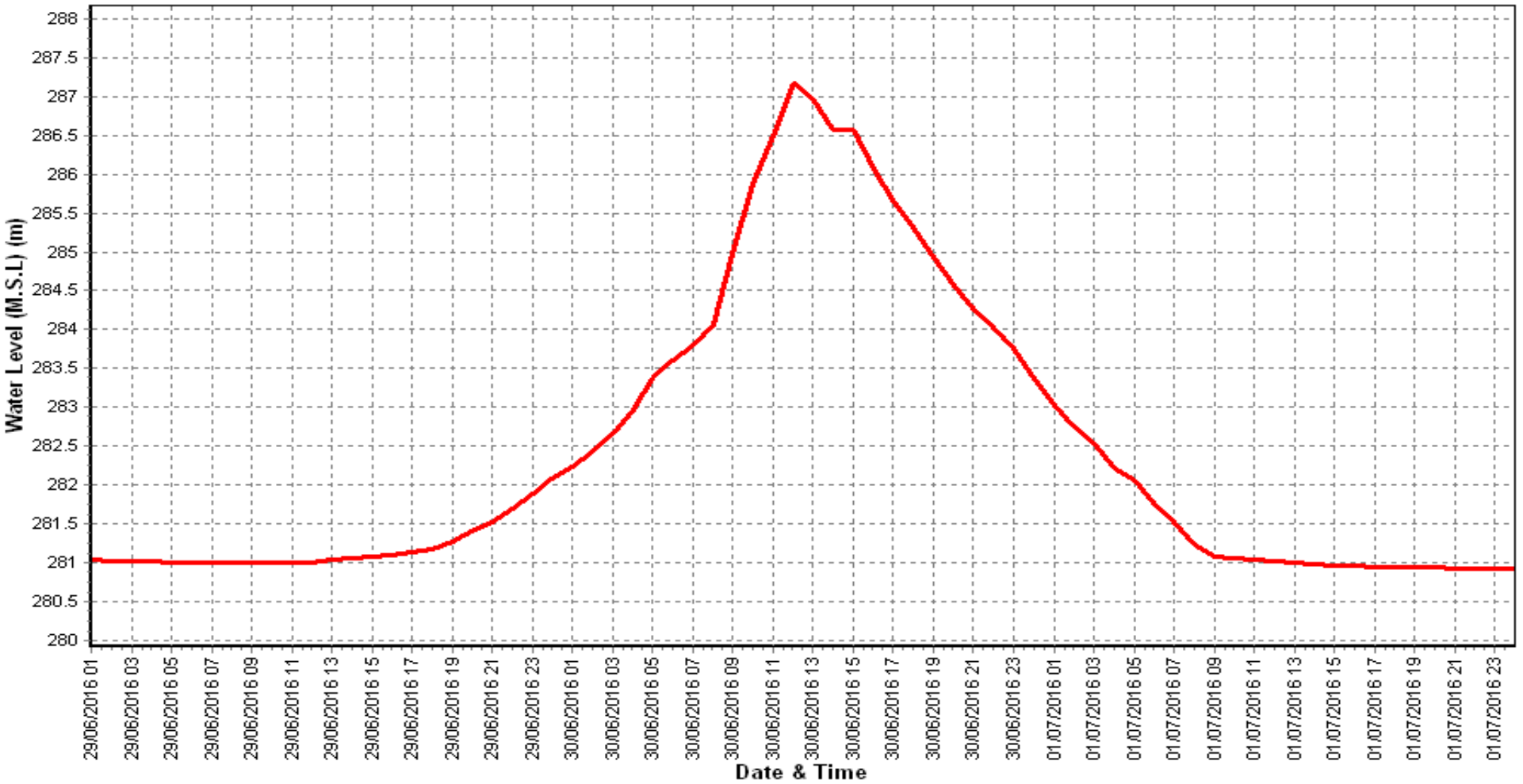
Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

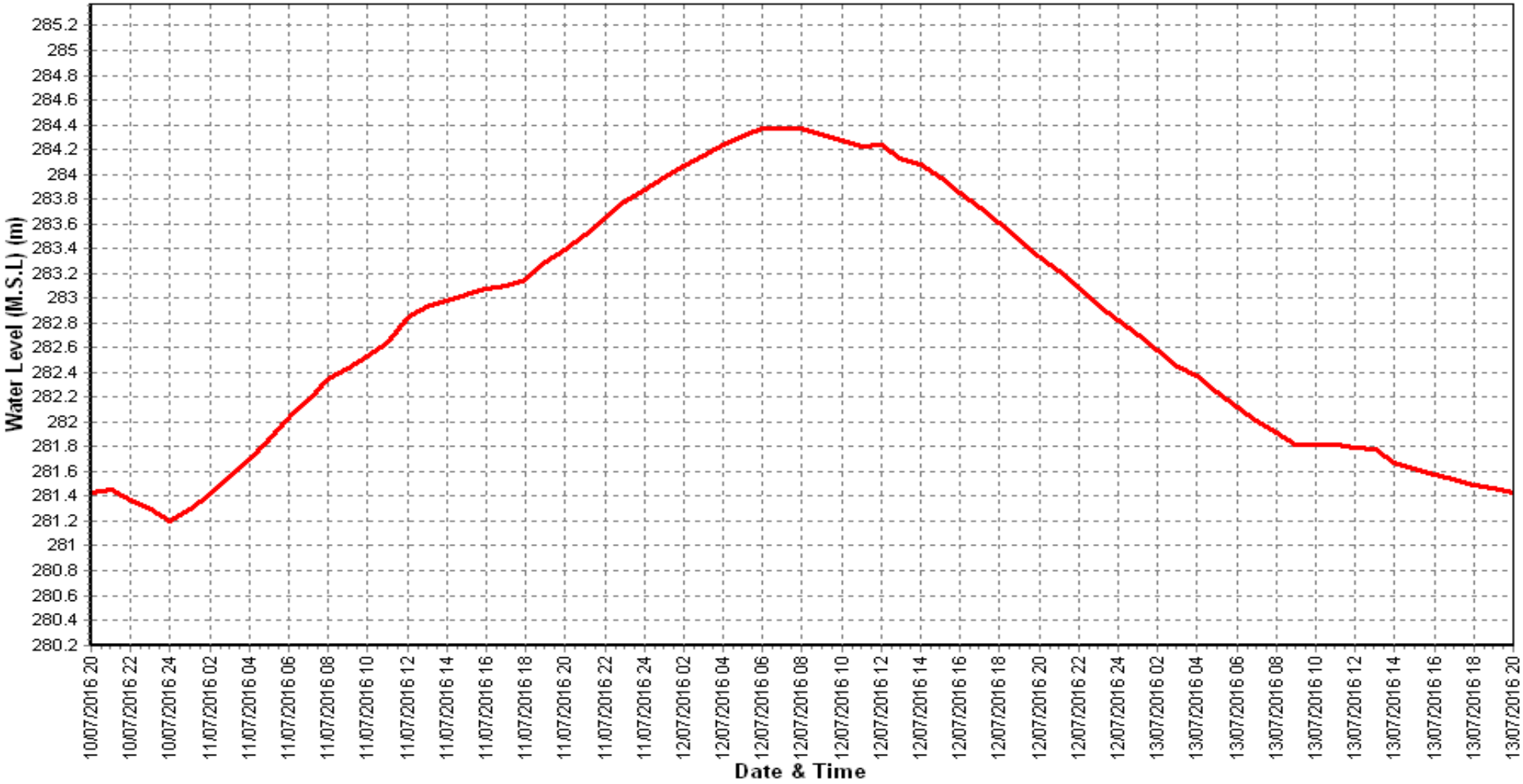


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**

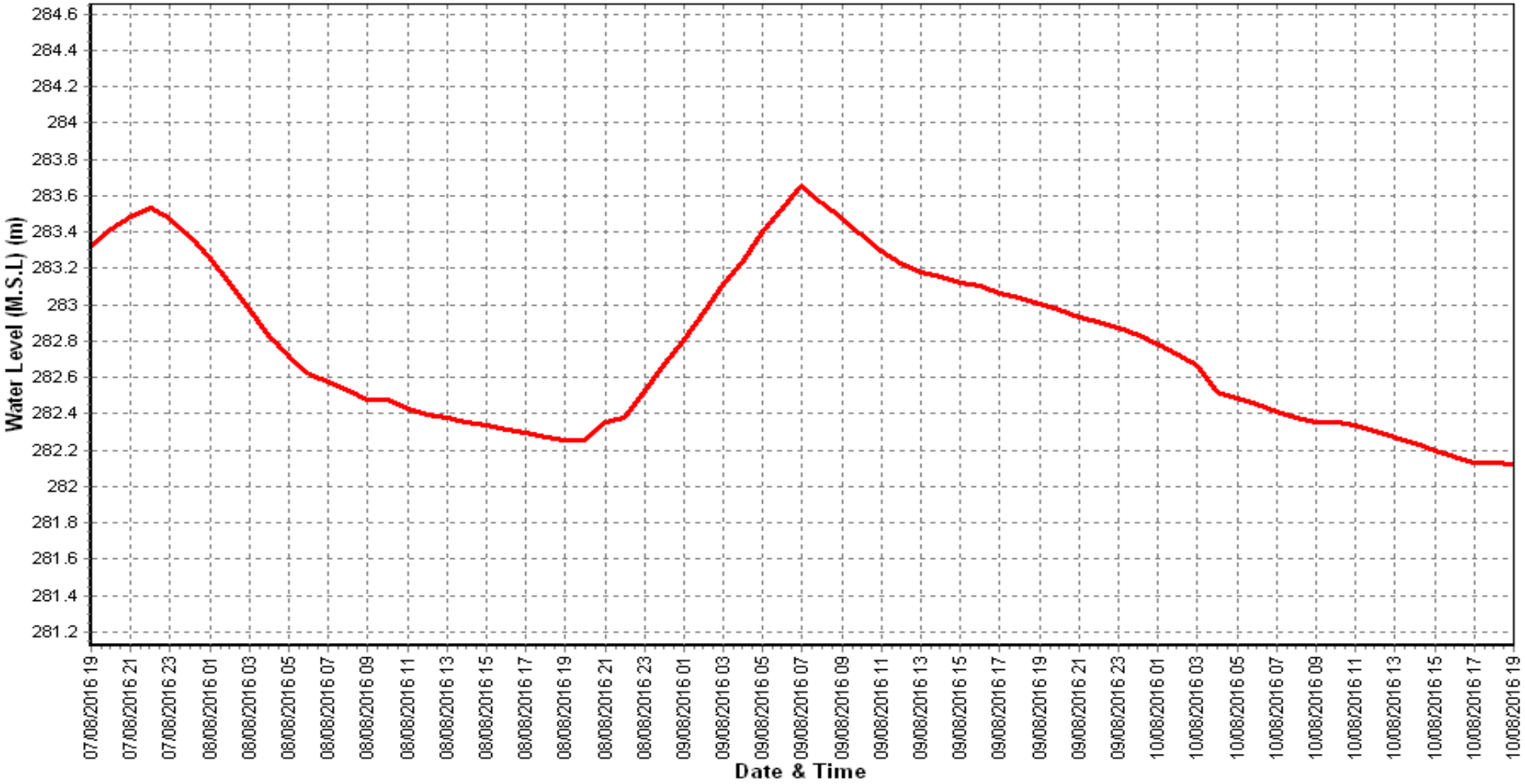


Time Span: 72 Hrs]

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : MANGRUL (AGH35G0) **Division : Wainganga Div., Nagpur**

Local River : Aran **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: KANERGAON**		**Code**	**: AGH32R8**	
State	: Maharashtra		District	Hingoli	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wardha	
Sub-Sub Tributary	: Penganga		Local River	: Penganga	
Division	: Wainganga Div., Nagpur		Sub-Division	: Penganga Sd, Yeotmal	
Drainage Area	: 3515 Sq. Km.		Bank	: Right	
Latitude	: 19°57'40"		Longitude	: 77°08'53"	
Zero of Gauge (m)	: 465 (m.s.l) 465.015 (m.s.l)		01.01.1991 01.06.1996	- 31.05.1996	
	Opening Date		Closing Date		
Gauge	: 10.02.1991				
Discharge	: 20.07.1992		**HFL During 2016-17**	**: 470.415 Meter**	
			Corres.Discharge	**: 265.1565 Cumecs(Estimated)**	
Sediment	:		**Date & Time of**	**: 17.09.2016**	
			Occurance	**: 02.00 Hrs.**	
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1992-1993	377.3	470.670	02.09.1992	0.000		10.02.1993
1993-1994	480.2	472.130	19.06.1993	0.000		28.04.1994
1994-1995	619.3	469.508	31.08.1994	0.000		11.02.1995
1995-1996	550.4	471.100	02.09.1995	0.000		27.03.1996
1996-1997	263.9	468.765	08.09.1996	0.000		06.04.1997
1997-1998	292.3	468.215	24.08.1997	0.000		02.05.1998
1998-1999	1885	473.820	11.08.1998	0.000	465.765	23.02.1999
1999-2000	1798	474.615	02.08.1999	0.000	465.675	26.01.2000
2000-2001	961.9	471.095	03.07.2000	0.000		25.01.2001
2001-2002	965.0	472.095	02.10.2001	0.000	465.575	28.01.2002
2002-2003	2316	474.965	02.09.2002	0.000		25.01.2003
2003-2004	160.4	467.310	08.08.2003	0.000		26.01.2004
2004-2005	67.02	466.995	14.06.2004	0.000		25.01.2005
2005-2006	255.9	467.720	04.09.2005	0.000	465.465	23.01.2006
2006-2007	3009	477.345	07.08.2006	0.000		09.02.2007
2007-2008	237.4	467.975	29.09.2007	0.018	465.575	19.12.2007
2008-2009	229.4	467.585	21.09.2008	0.006	465.520	12.11.2008
2009-2010	141.1	467.435	04.09.2009	0.005	465.575	14.10.2009
2010-2011	1215	471.040	31.08.2010	0.000		25.02.2011
2011-2012	377.8	468.725	16.09.2011	0.000	465.195	13.11.2011
2012-2013	168.5	467.125	04.10.2012	0.000		07.04.2013

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2013-2014	1398	473.215	24.07.2013	0.000		27.12.2013
2014-2015	547.5	469.100	08.09.2014	0.000	465.115	11.11.2014
2015-2016	511.8	468.235	18.09.2015	0.000	465.115	30.07.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	465.015	0.000	465.380	14.89	467.855	98.96 #	468.995	0.000	469.175	0.000	469.025	0.000
2	465.015	0.000	467.105	0.000	466.365	32.94	468.985	0.000	470.015	0.000	469.025	0.000
3	465.015	0.000	467.375	0.000	466.470	44.02	469.015	0.000	469.235	0.000	469.025	0.000
4	465.015	0.000	467.395	0.000	466.125	32.18 #	469.015	0.000	469.255	0.000	469.015	0.000
5	465.015	0.000	467.595	0.000	465.895	26.03 #	469.085	0.000	469.215	0.000	469.015	0.000
6	465.015	0.000	467.655	0.000	465.395	14.19	469.065	0.000	469.195	0.000	469.015	0.000
7	465.015	0.000	467.675	0.000	465.885	25.78 *	469.045	0.000	469.175	0.000	469.015	0.000
8	465.015	0.000	467.685	0.000	465.635	19.98 #	469.025	0.000	469.165	0.000	469.015	0.000
9	465.015	0.000	467.715	0.000	468.195	0.000	469.005	0.000	468.785	0.000	469.015	0.000
10	465.015	0.000	467.795	0.000	467.125	0.000	468.995	0.000	469.165	0.000	469.005	0.000
11	465.015	0.000	468.615	0.000	468.095	0.000	468.995	0.000	469.135	0.000	469.005	0.000
12	465.215	0.000	467.305	0.000	467.815	0.000	468.985	0.000	469.125	0.000	469.005	0.000
13	465.085	0.000	465.705	25.00	468.135	0.000	468.985	0.000	469.125	0.000	469.005	0.000
14	465.055	0.000	465.665	20.60 #	468.445	0.000	468.995	0.000	469.105	0.000	469.005	0.000
15	465.035	0.000	466.765	0.000	468.985	0.000	469.005	0.000	469.095	0.000	469.005	0.000
16	465.015	0.000	467.015	0.000	469.125	0.000	469.015	0.000	469.085	0.000	468.995	0.000
17	465.015	0.000	467.155	0.000	469.105	0.000	469.245	0.000	469.065	0.000	468.995	0.000
18	465.015	0.000	467.465	0.000	469.065	0.000	469.295	0.000	469.055	0.000	468.995	0.000
19	465.015	0.000	467.645	0.000	469.035	0.000	469.175	0.000	469.055	0.000	468.995	0.000
20	465.015	0.000	467.755	0.000	469.015	0.000	469.135	0.000	469.035	0.000	468.995	0.000
21	465.015	0.000	467.865	0.000	469.015	0.000	469.125	0.000	469.045	0.000	468.995	0.000
22	465.015	0.000	467.955	0.000	469.005	0.000	469.115	0.000	469.015	0.000	468.995	0.000
23	465.015	0.000	468.585	0.000	469.005	0.000	469.135	0.000	469.035	0.000	468.995	0.000
24	465.015	0.000	468.295	0.000	469.005	0.000	469.245	0.000	469.035	0.000	468.995	0.000
25	465.015	0.000	468.995	0.000	469.005	0.000	469.235	0.000	469.025	0.000	468.995	0.000
26	465.015	0.000	465.325	13.76 #	469.005	0.000	469.115	0.000	469.025	0.000	468.995	0.000
27	465.600	23.53	468.935	159.3 *	468.995	0.000	469.215	0.000	469.025	0.000	468.985	0.000
28	465.380	13.89	467.885	100.4 #	468.995	0.000	469.235	0.000	469.025	0.000	468.985	0.000
29	465.315	10.74	467.225	70.23 #	468.995	0.000	469.175	0.000	469.025	0.000	468.985	0.000
30	465.435	18.09	466.435	40.87	468.995	0.000	469.135	0.000	469.025	0.000	468.805	0.000
31			466.015	29.11 *	468.995	0.000			469.025	0.000		
Ten-Daily Mean												
I Ten-Daily	465.015	0.000	467.337	1.489	466.494	29.41	469.023	0.000	469.238	0.000	469.017	0.000
II Ten-Daily	465.098	0.000	467.109	4.559	468.682	0.000	469.083	0.000	469.088	0.000	469.000	0.000
III Ten-Daily	465.432	6.625	467.592	37.61	469.001	0.000	469.173	0.000	469.028	0.000	468.973	0.000
Monthly												
Min.	465.035	0.000	465.325	0.000	465.395	0.000	468.985	0.000	468.785	0.000	468.805	0.000
Max.	465.600	23.53	468.995	159.3	469.125	98.96	469.295	0.000	470.015	0.000	469.025	0.000
Mean	465.265	2.208	467.354	15.30	468.090	9.486	469.093	0.000	469.115	0.000	468.997	0.000

Annual Runoff in MCM = 72 Annual Runoff in mm = 21

Peak Observed Discharge = 100.4 cumecs on 28/07/2016 Corres. Water Level :467.885 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	468.985	0.000	468.715	0.000	468.125	0.000	467.105	0.000	466.325	0.000	465.185	0.000
2	468.985	0.000	468.685	0.000	468.115	0.000	467.075	0.000	466.295	0.000	465.155	0.000
3	468.985	0.000	468.665	0.000	467.975	0.000	467.045	0.000	466.275	0.000	465.125	0.000
4	468.975	0.000	468.655	0.000	467.875	0.000	467.015	0.000	466.245	0.000	465.095	0.000
5	468.975	0.000	468.645	0.000	467.875	0.000	466.995	0.000	466.225	0.000	465.065	0.000
6	468.955	0.000	468.635	0.000	467.875	0.000	466.915	0.000	466.185	0.000	465.055	0.000
7	468.955	0.000	468.625	0.000	467.865	0.000	466.875	0.000	466.175	0.000	465.045	0.000
8	468.955	0.000	468.615	0.000	467.845	0.000	466.865	0.000	466.155	0.000	465.035	0.000
9	468.955	0.000	468.615	0.000	467.835	0.000	466.855	0.000	466.115	0.000	465.015	0.000
10	468.955	0.000	468.595	0.000	467.835	0.000	466.825	0.000	466.075	0.000	465.015	0.000
11	468.945	0.000	468.585	0.000	467.775	0.000	466.805	0.000	466.045	0.000	465.015	0.000
12	468.945	0.000	468.575	0.000	467.745	0.000	466.785	0.000	465.965	0.000	465.015	0.000
13	468.895	0.000	468.565	0.000	467.685	0.000	466.765	0.000	465.935	0.000	465.015	0.000
14	468.895	0.000	468.565	0.000	467.665	0.000	466.745	0.000	465.875	0.000	465.015	0.000
15	468.875	0.000	468.555	0.000	467.655	0.000	466.715	0.000	465.845	0.000	465.015	0.000
16	468.875	0.000	468.545	0.000	467.595	0.000	466.695	0.000	465.805	0.000	465.015	0.000
17	468.875	0.000	468.535	0.000	467.575	0.000	466.695	0.000	465.775	0.000	465.015	0.000
18	468.875	0.000	468.485	0.000	467.525	0.000	466.655	0.000	465.735	0.000	465.015	0.000
19	468.845	0.000	468.415	0.000	467.475	0.000	466.635	0.000	465.685	0.000	465.015	0.000
20	468.825	0.000	468.375	0.000	467.395	0.000	466.605	0.000	465.655	0.000	465.015	0.000
21	468.825	0.000	468.315	0.000	467.375	0.000	466.575	0.000	465.635	0.000	465.015	0.000
22	468.815	0.000	468.285	0.000	467.345	0.000	466.575	0.000	465.555	0.000	465.015	0.000
23	468.815	0.000	468.255	0.000	467.315	0.000	466.545	0.000	465.475	0.000	465.015	0.000
24	468.815	0.000	468.225	0.000	467.275	0.000	466.525	0.000	465.425	0.000	465.015	0.000
25	468.795	0.000	468.205	0.000	467.245	0.000	466.495	0.000	465.375	0.000	465.015	0.000
26	468.795	0.000	468.175	0.000	467.205	0.000	466.475	0.000	465.335	0.000	465.015	0.000
27	468.755	0.000	468.175	0.000	467.165	0.000	466.455	0.000	465.315	0.000	465.015	0.000
28	468.735	0.000	468.175	0.000	467.115	0.000	466.415	0.000	465.295	0.000	465.015	0.000
29	468.725	0.000	468.155	0.000			466.395	0.000	465.225	0.000	465.015	0.000
30	468.715	0.000	468.145	0.000			466.375	0.000	465.215	0.000	465.015	0.000
31	468.715	0.000	468.135	0.000			466.345	0.000			465.015	0.000
Ten-Daily Mean												
I Ten-Daily	468.968	0.000	468.645	0.000	467.922	0.000	466.957	0.000	466.207	0.000	465.095	0.000
II Ten-Daily	468.885	0.000	468.520	0.000	467.609	0.000	466.710	0.000	465.832	0.000	465.015	0.000
III Ten-Daily	468.773	0.000	468.204	0.000	467.255	0.000	466.470	0.000	465.385	0.000	465.015	0.000
Monthly												
Min.	468.715	0.000	468.135	0.000	467.115	0.000	466.345	0.000	465.215	0.000	465.035	0.000
Max.	468.985	0.000	468.715	0.000	468.125	0.000	467.105	0.000	466.325	0.000	465.185	0.000
Mean	468.872	0.000	468.448	0.000	467.620	0.000	466.705	0.000	465.808	0.000	465.095	0.000

Peak Computed Discharge = 159.3 cumecs on 27/07/2016 Corres. Water Level :468.935 m

Lowest Computed Discharge = 25.78 cumecs on 07/08/2016 Corres. Water Level :465.885 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

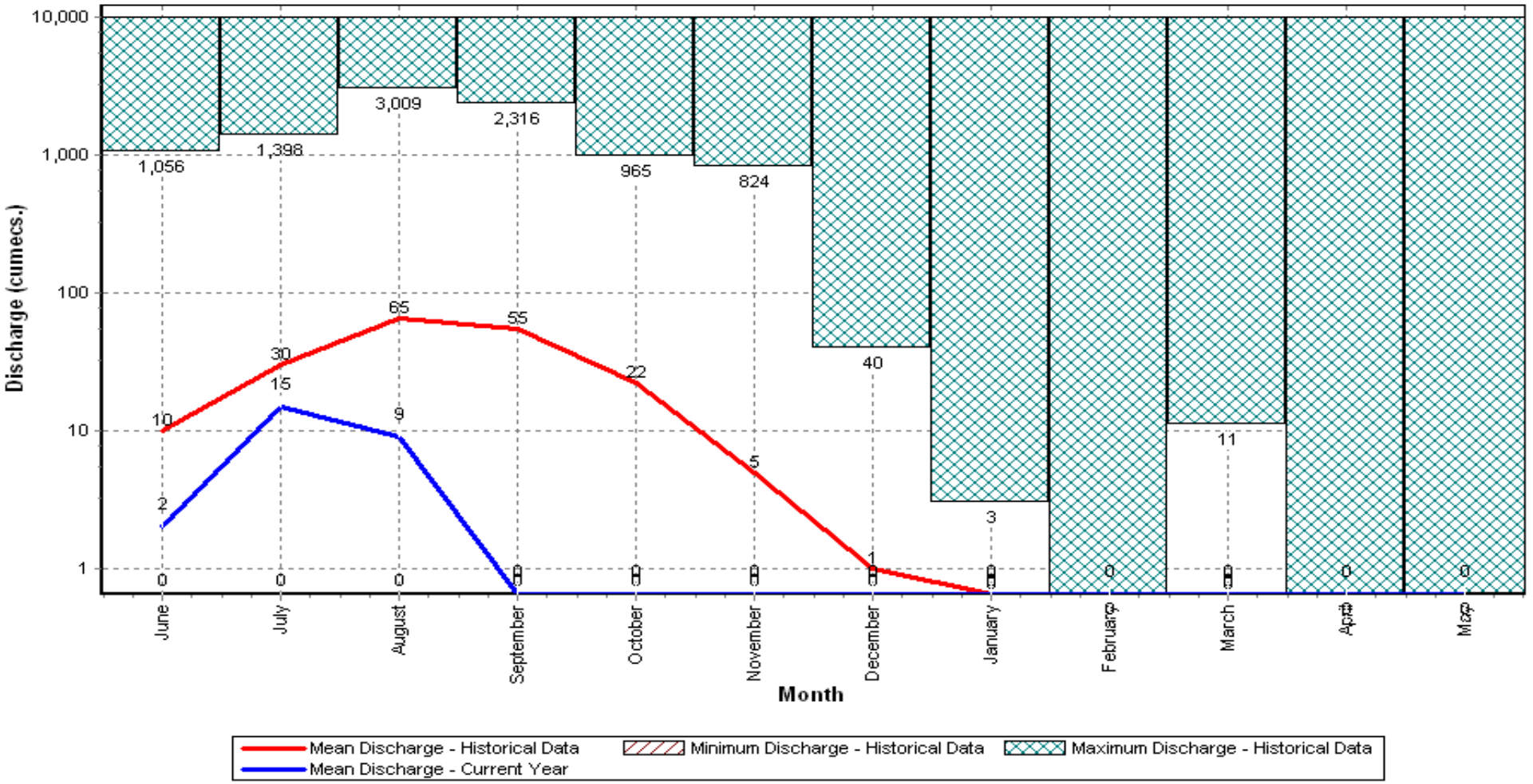
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : KANERGAON (AGH32R8) | **Data considered : 1992-2017** | **Division : Wainganga Div., Nagpur**

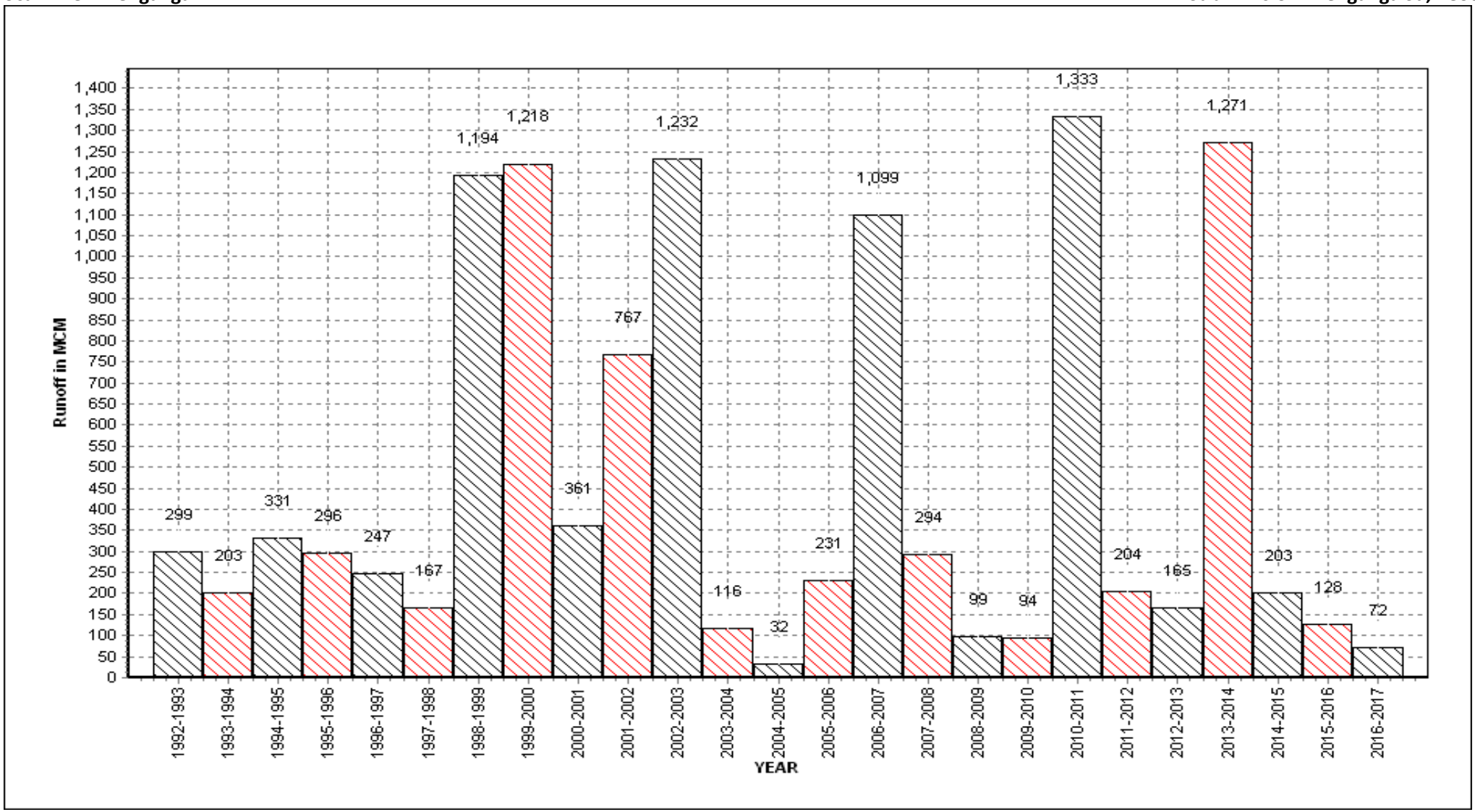
Local River : Penganga | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1992 - 2017

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

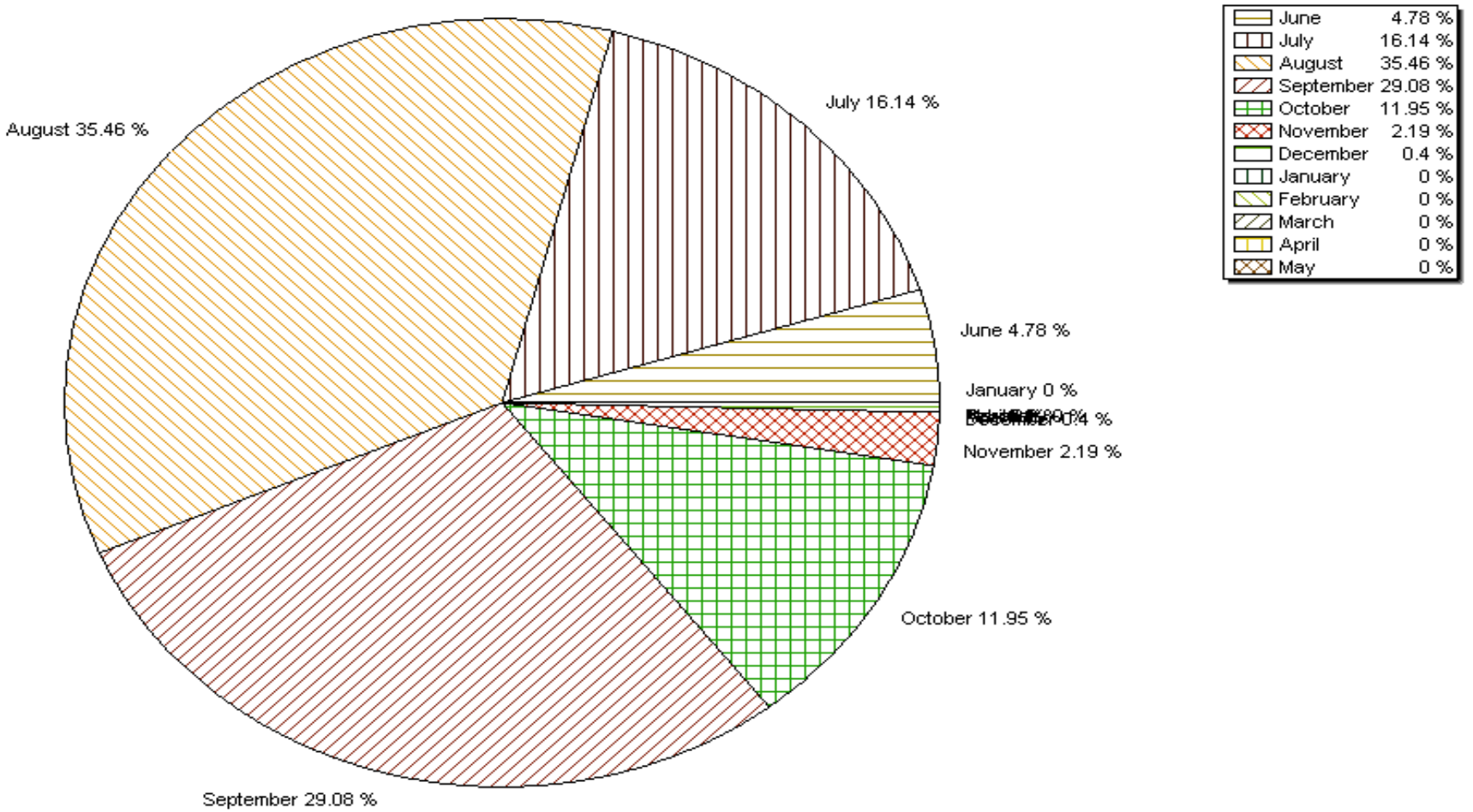


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1992-2016

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



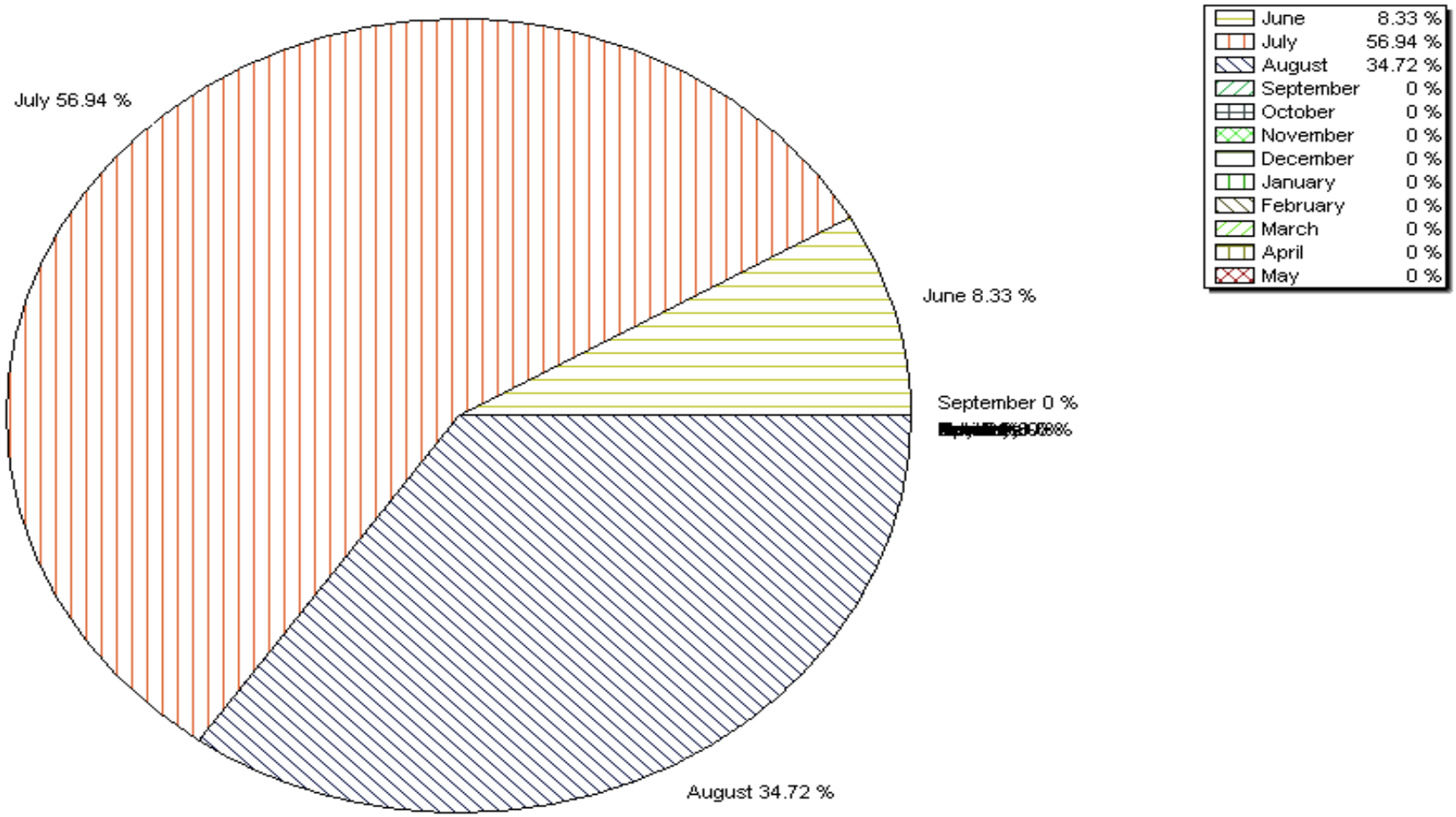
Monthly Runoff for the Year : 2016-2017

Station Name : KANERGAON (AGH32R8)

Local River : Penganga

Division : Wainganga Div., Nagpur

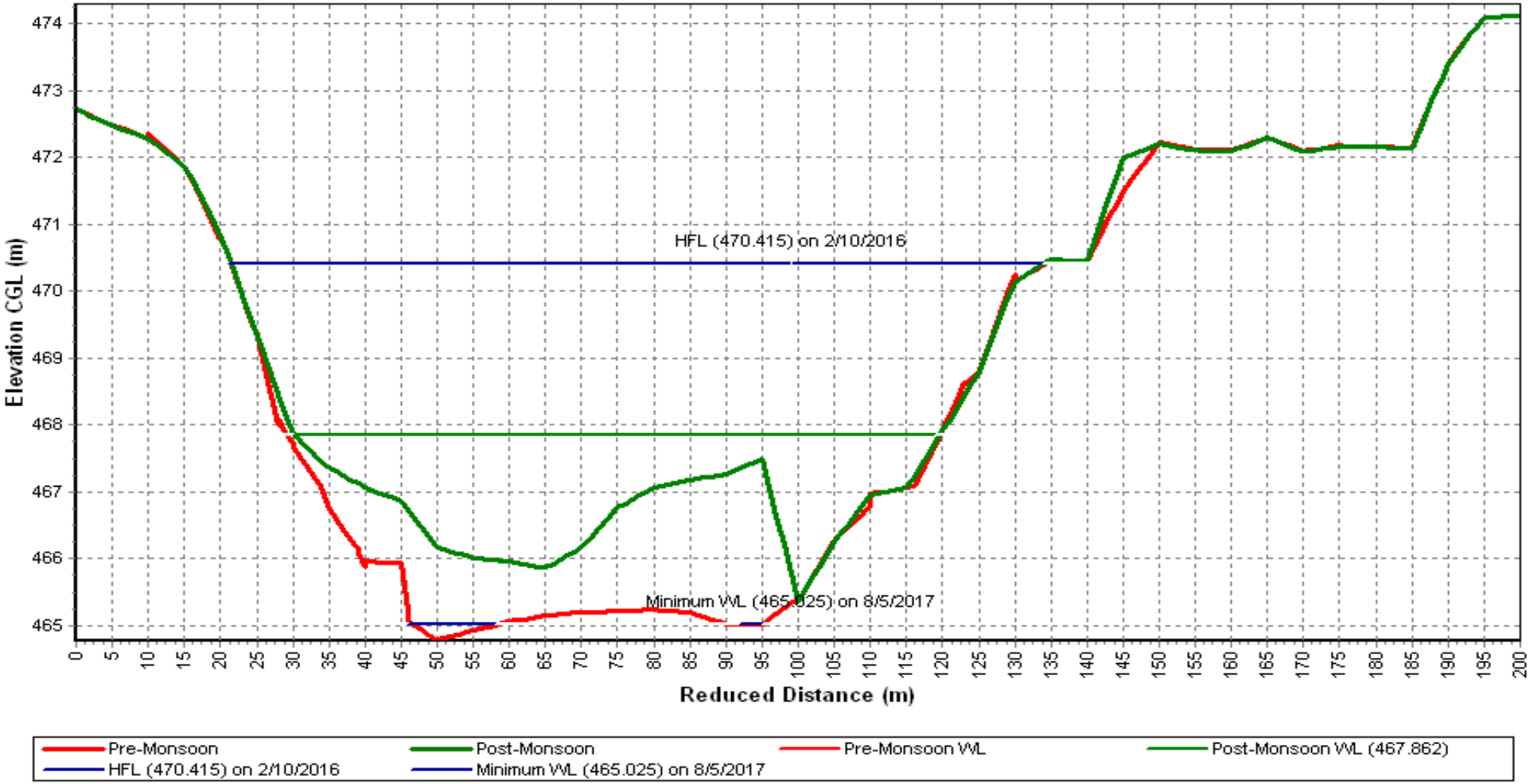
Sub-Division : Penganga Sd, Yeotmal



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

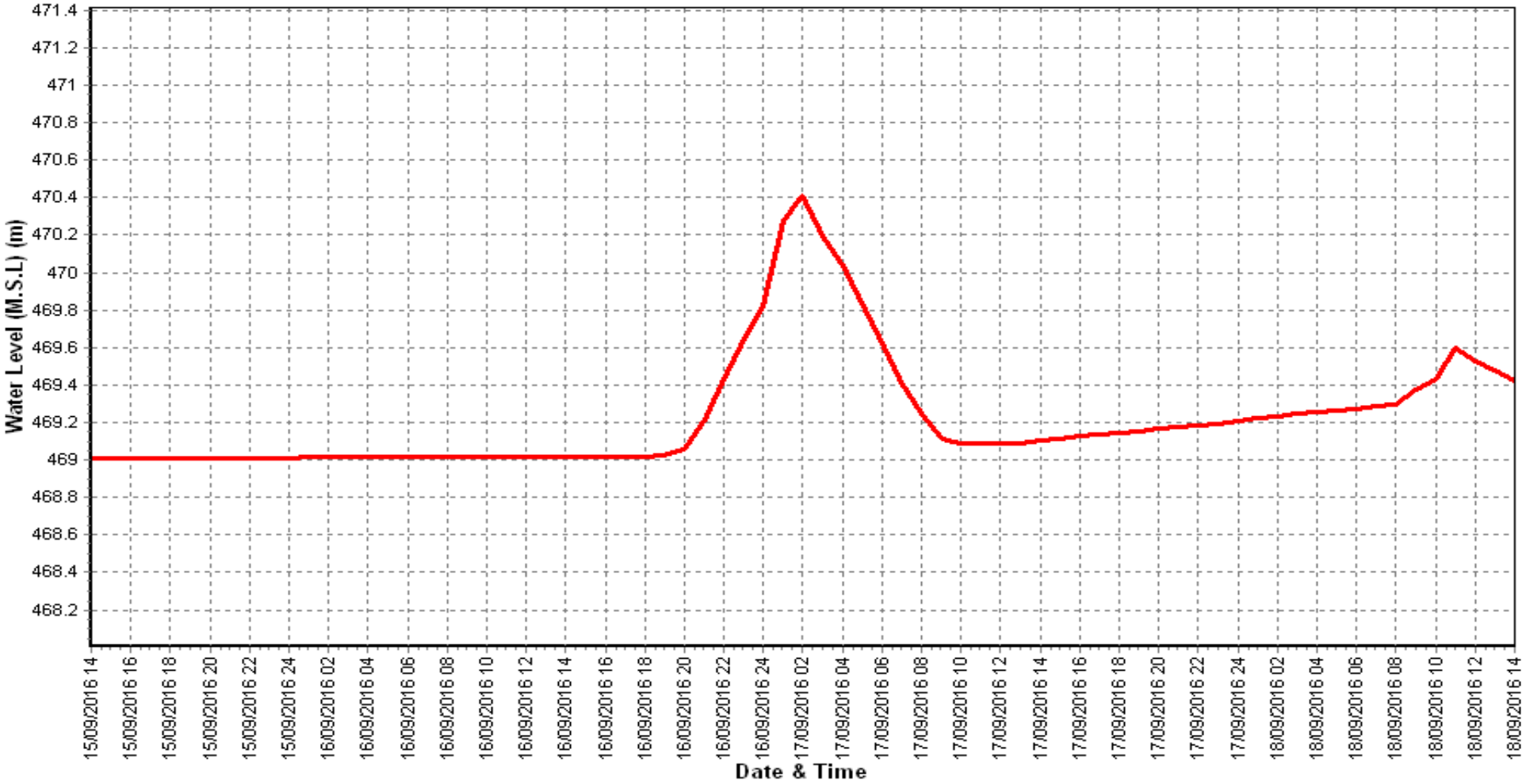
Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

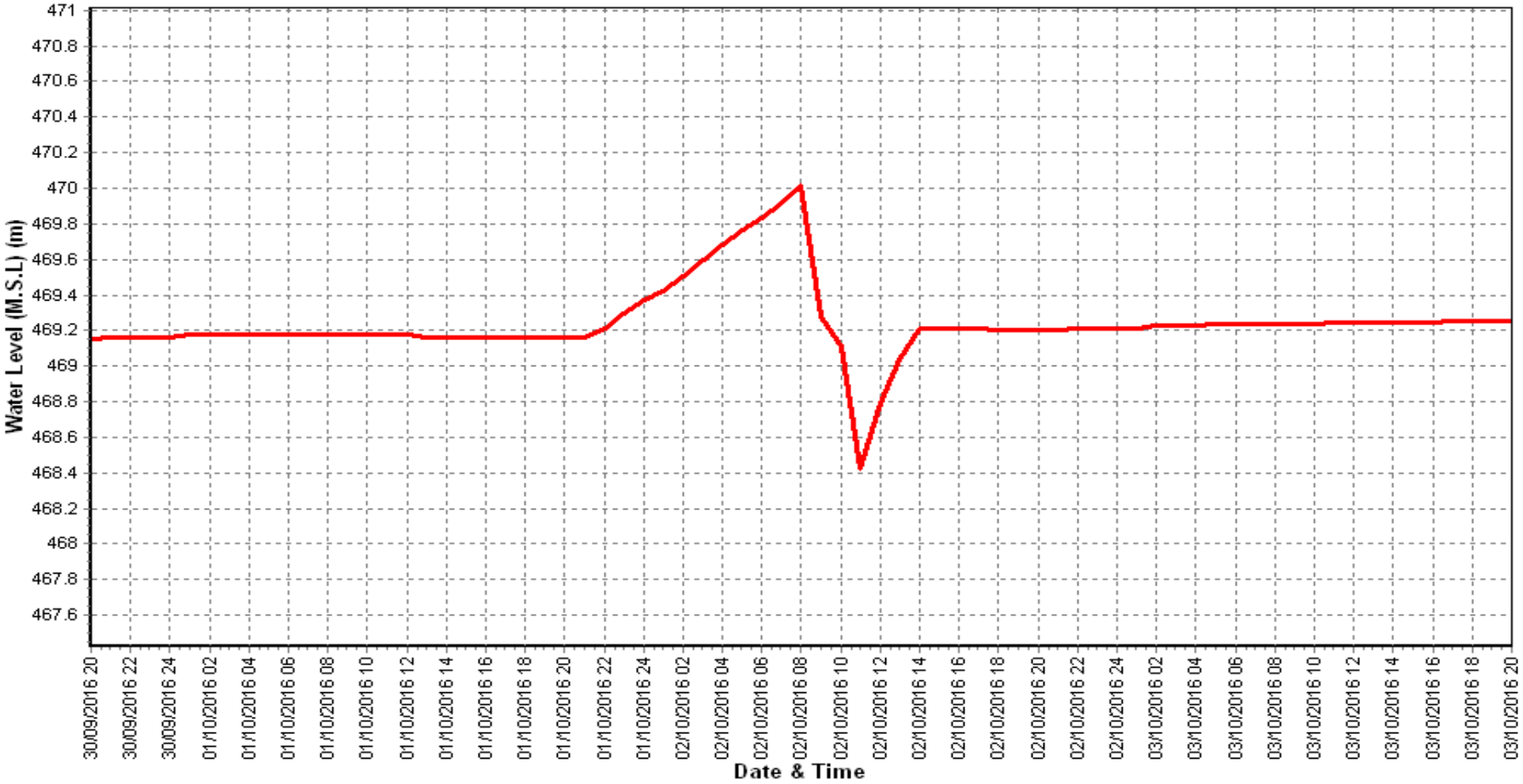


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**

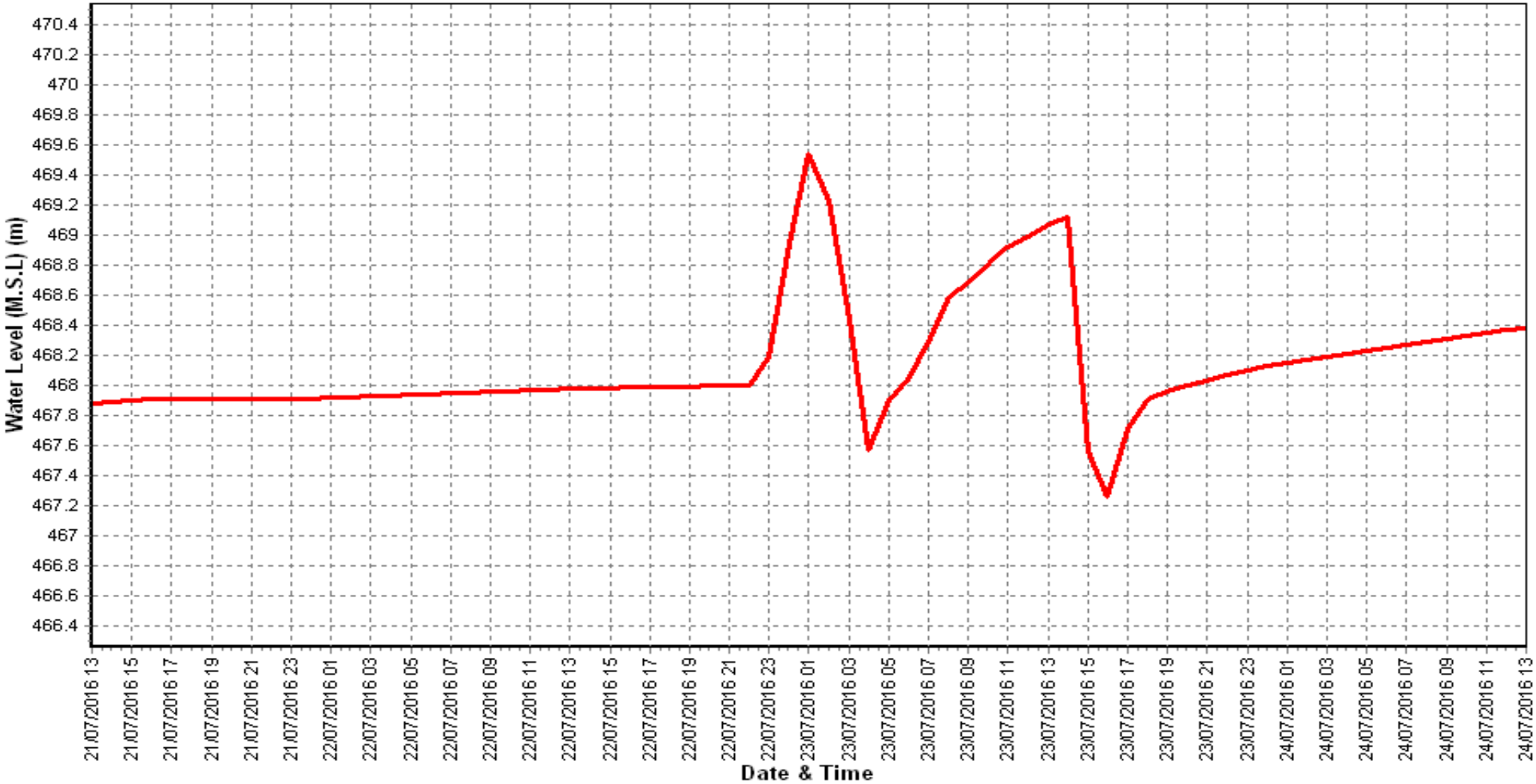


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : KANERGAON (AGH32R8) **Division : Wainganga Div., Nagpur**

Local River : Penganga **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**NANDGAON**	**Code**	**:**	**AGH3AF4**
State	:	Maharashtra	District		Wardha
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wardha
Sub-Sub Tributary	:	Wunna	Local River	:	Wunna
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	:	4580 Sq. Km.	Bank	:	Left
Latitude	:	20°32'00"	Longitude	:	78°49'33"
Zero of Gauge (m)	:	198 (m.s.l)	28.10.1985		
		Opening Date	Closing Date		
Gauge	:	28.10.1985			
Discharge	:	21.07.1986	**HFL During 2016-17**	**:**	**205.720 Meter**
			Corres.Discharge	**:**	**892.9612 Cumecs(Estimated)**
Sediment	:	13.07.1988	**Date & Time of**	**:**	**01.08.2016**
			Occurance	**:**	**18.00 Hrs.**
Water Quality	:	01.01.1988			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	2505	211.100	14.08.1986	0.000		05.06.1986
1987-1988	68.30	202.270	29.08.1987	0.000		14.04.1988
1988-1989	624.0	208.375	07.09.1988	0.000	0.000	09.05.1989
1989-1990	478.1	205.425	01.09.1989	0.000		26.04.1990
1990-1991	3035	211.590	23.08.1990	0.000	0.000	04.05.1991
1991-1992	1883	209.175	16.08.1991	0.000	200.450	15.04.1992
1992-1993	2153	209.345	21.08.1992	0.000	200.455	13.05.1993
1993-1994	342.3	204.255	29.07.1993	0.000		06.05.1994
1994-1995	3205	212.550	13.07.1994	0.000	200.560	11.05.1995
1995-1996	1208	208.700	02.09.1995	0.000	200.580	13.06.1995
1996-1997	157.7	202.985	17.08.1996	0.000	200.390	30.05.1997
1997-1998	164.8	203.115	23.08.1997	0.000	200.380	14.06.1997
1998-1999	349.0	204.250	08.09.1998	0.140	200.785	06.06.1998
1999-2000	2522	211.270	10.08.1999	0.179	200.470	10.05.2000
2000-2001	2509	210.610	19.07.2000	0.318	200.560	05.05.2001
2001-2002	1094	206.850	14.06.2001	0.000	200.600	26.05.2002
2002-2003	2346	209.750	25.06.2002	0.000	200.610	23.04.2003
2003-2004	621.1	204.385	23.08.2003	0.000	200.520	14.06.2003
2004-2005	456.9	203.665	05.08.2004	0.000	200.560	10.06.2004
2005-2006	1287	207.650	15.09.2005	0.000	200.610	09.06.2005
2006-2007	788.6	205.215	07.09.2006	0.406	200.640	26.04.2007
2007-2008	3567	210.720	08.08.2007	0.186	200.490	18.05.2008

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2008-2009	597.4	204.615	29.07.2008	0.048	200.370	27.05.2009
2009-2010	404.3	203.735	01.09.2009	0.061	200.480	07.11.2009
2010-2011	3634	209.110	31.08.2010	0.000	200.590	18.05.2011
2011-2012	1454	207.660	02.09.2011	0.000	200.470	27.04.2012
2012-2013	1728	207.880	20.08.2012	0.000		19.05.2013
2013-2014	1949	211.270	20.07.2013	0.000	200.320	24.04.2014
2014-2015	1137	208.300	23.07.2014	0.000	200.380	20.03.2015
2015-2016	1662	208.440	14.08.2015	0.000	199.910	20.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	198.000	0.000	200.060	0.287 #	202.750	216.4	200.590	12.42	200.950	26.95	200.170	1.368
2	198.000	0.000	199.910	0.000	202.625	203.3	200.690	16.67	200.910	26.85 *	200.150	1.150
3	198.000	0.000	200.650	14.35 *	201.920	102.9	201.110	37.75	201.025	36.49	200.140	1.043
4	198.000	0.000	200.485	6.619	201.930	104.7	200.830	22.61 *	200.865	25.63	200.130	0.906
5	198.000	0.000	200.555	9.579	201.555	78.79	200.720	17.35 *	200.760	18.01	200.110	0.711
6	198.000	0.000	200.730	17.80 *	201.400	64.83	200.630	14.52	200.700	16.46	200.100	0.584 *
7	198.000	0.000	201.080	37.22	201.480	67.18 *	200.580	12.80	200.660	14.88	200.100	0.547
8	198.000	0.000	200.960	34.91	201.430	64.69	200.530	10.19	201.465	66.95	200.090	0.442
9	198.000	0.000	204.450	550.9 *	201.530	66.10	200.490	8.988	201.480	67.18 *	200.070	0.356
10	198.000	0.000	201.840	101.6 *	201.380	56.89	200.450	7.448	201.420	62.58	200.070	0.352 #
11	198.000	0.000	201.015	31.66	201.230	47.80	200.420	6.456 *	201.140	41.01 *	200.080	0.419
12	198.000	0.000	200.850	19.41	201.155	43.34	200.410	6.704	200.990	31.45 *	200.250	2.578 #
13	198.000	0.000	201.910	118.1	201.075	36.63	200.400	5.912 *	200.970	28.52	200.410	6.182 *
14	198.000	0.000	201.040	35.72	201.000	32.05 *	200.545	11.28	200.730	18.54	200.520	9.520 *
15	198.000	0.000	200.800	21.55	201.220	46.61 *	200.635	14.74	200.645	13.25	200.530	9.857 #
16	198.000	0.000	200.680	16.16	201.020	32.85	200.625	14.40	200.600	12.38 *	200.530	9.857 #
17	198.000	0.000	200.650	14.35 *	200.895	26.31	200.920	24.93	200.550	10.14	200.540	10.20 #
18	198.000	0.000	200.830	20.88	200.835	21.82	200.750	18.72 *	200.530	9.986	200.540	10.20 #
19	198.000	0.000	200.850	22.10	200.780	19.66	200.795	19.49	200.500	8.850	200.550	10.55 #
20	198.000	0.000	200.680	16.54	200.735	17.53	200.655	15.07	200.470	8.706	200.570	11.27 *
21	198.000	0.000	200.645	14.66	200.700	16.46 *	200.725	18.09	200.440	6.883	200.580	11.63 #
22	198.000	0.000	200.935	29.01	200.680	15.61	200.910	29.52	200.420	6.955	200.570	9.066
23	198.000	0.000	201.565	78.12	200.650	14.40	200.720	17.77	200.400	5.912 *	200.580	10.12
24	198.000	0.000	201.680	85.46 *	200.745	17.09	200.650	14.86	200.380	5.363	200.580	9.666
25	198.000	0.000	201.510	74.41	200.640	13.93	200.600	12.38 *	200.350	5.040	200.570	9.129
26	198.000	0.000	201.450	69.20	200.595	13.13	200.860	23.95	200.315	4.373	200.570	9.030
27	200.320	3.970 #	201.750	111.5	200.570	11.85	201.145	46.57	200.270	3.193	200.580	11.63 *
28	200.300	3.543 #	202.200	138.4	200.550	10.55 *	200.905	27.89	200.250	3.020	200.580	9.919
29	200.400	5.912 #	201.390	63.97	200.580	12.91	200.760	18.09	200.230	2.385	200.590	10.01
30	200.440	7.023 #	201.045	34.91	200.600	13.36	200.960	28.18	200.220	2.070 *	200.580	9.635
31			201.350	56.44 *	200.740	17.06			200.200	1.821		
Ten-Daily Mean												
I Ten-Daily	198.000	0.000	201.072	85.92	201.800	102.6	200.662	16.08	201.023	36.20	200.113	0.746
II Ten-Daily	198.000	0.000	200.930	31.65	200.995	32.46	200.616	13.77	200.712	18.28	200.452	8.063
III Ten-Daily	200.365	5.112	201.411	68.73	200.641	14.21	200.824	23.73	200.316	4.274	200.578	9.984
Monthly												
Min.	200.300	3.543	199.910	0.287	200.550	10.55	200.400	5.912	200.200	1.821	200.070	0.352
Max.	200.440	7.023	204.450	550.9	202.750	216.4	201.145	46.57	201.480	67.18	200.590	11.63
Mean	200.365	5.112	201.147	61.53	201.129	48.6	200.700	17.86	200.672	19.09	200.381	6.264

Annual Runoff in MCM = 468 Annual Runoff in mm = 102

Peak Observed Discharge = 216.4 cumecs on 01/08/2016 Corres. Water Level :202.75 m

Lowest Observed Discharge = 0.157 cumecs on 20/03/2017 Corres. Water Level :200.09 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	200.590	9.966	200.430	4.660 *	200.450	5.410	200.570	8.541	198.000	0.000	198.000	0.000
2	200.590	9.739	200.430	4.660 #	200.420	4.665	200.590	9.566	198.000	0.000	198.000	0.000
3	200.620	9.906	200.420	4.451 #	200.410	4.253	200.570	9.098	198.000	0.000	198.000	0.000
4	200.620	9.461 *	200.440	4.874 #	200.400	3.779	200.500	6.677	198.000	0.000	198.000	0.000
5	200.620	8.983	200.450	5.092 #	200.400	4.046 *	200.470	5.541 *	198.000	0.000	198.000	0.000
6	200.610	9.570	200.450	5.092 #	200.410	4.242	200.460	5.606	198.000	0.000	198.000	0.000
7	200.630	10.06	200.580	8.322 #	200.450	4.546	200.450	5.474	198.000	0.000	198.000	0.000
8	200.630	10.28	200.620	9.461 *	200.460	4.748	200.320	2.688	198.000	0.000	198.000	0.000
9	200.630	10.36	200.630	7.850	200.450	4.818	200.270	2.157	198.000	0.000	198.000	0.000
10	200.620	9.098	200.650	8.809	200.430	4.140	200.320	2.940	198.000	0.000	198.000	0.000
11	200.580	8.322 *	200.650	9.727	200.410	3.756	200.320	3.260	198.000	0.000	198.000	0.000
12	200.570	8.047 *	200.650	10.42	200.400	4.046 *	200.300	2.293 *	198.000	0.000	198.000	0.000
13	200.570	7.484	200.640	10.16	200.400	4.036	200.280	1.998 *	198.000	0.000	198.000	0.000
14	200.580	8.171	200.650	10.29	200.450	4.676	200.260	1.937	198.000	0.000	198.000	0.000
15	200.570	7.391	200.640	10.06 *	200.510	5.302	200.240	1.464 #	198.000	0.000	198.000	0.000
16	200.550	6.869	200.620	9.980	200.530	6.512	200.200	1.008 #	198.000	0.000	198.000	0.000
17	200.550	6.547	200.620	9.988	200.540	7.185	200.200	1.008 #	198.000	0.000	198.000	0.000
18	200.550	7.512 *	200.620	10.02	200.550	6.980	200.180	0.810 #	198.000	0.000	198.000	0.000
19	200.560	6.101	200.630	11.22	200.540	7.250 *	200.120	0.338 *	198.000	0.000	198.000	0.000
20	200.590	8.521	200.600	10.12	200.540	7.211	200.090	0.157	198.000	0.000	198.000	0.000
21	200.620	9.573	200.590	9.985	200.540	7.151	200.090	0.174 #	198.000	0.000	198.000	0.000
22	200.640	9.421	200.600	8.883 *	200.530	6.951	200.090	0.174 #	198.000	0.000	198.000	0.000
23	200.580	6.240	200.600	10.04	200.520	6.768	200.080	0.000	198.000	0.000	198.000	0.000
24	200.510	4.987	200.620	10.63	200.530	7.091	200.080	0.000	198.000	0.000	198.000	0.000
25	200.470	5.541 *	200.620	10.39	200.540	7.678	200.070	0.000	198.000	0.000	198.000	0.000
26	200.440	4.874 #	200.610	9.170 *	200.550	7.512 *	200.050	0.000	198.000	0.000	198.000	0.000
27	200.420	4.451 #	200.600	9.656	200.550	8.064	200.040	0.000	198.000	0.000	198.000	0.000
28	200.400	4.046 #	200.590	9.251	200.550	7.421	200.030	0.000	198.000	0.000	198.000	0.000
29	200.400	4.046 #	200.570	8.047 *			200.030	0.000	198.000	0.000	198.000	0.000
30	200.420	4.451 #	200.560	7.753			200.020	0.000	198.000	0.000	198.000	0.000
31	200.440	4.874 #	200.500	6.295			200.020	0.000			198.000	0.000
Ten-Daily Mean												
I Ten-Daily	200.616	9.742	200.510	6.327	200.428	4.465	200.452	5.829	198.000	0.000	198.000	0.000
II Ten-Daily	200.567	7.497	200.632	10.20	200.487	5.695	200.219	1.427	198.000	0.000	198.000	0.000
III Ten-Daily	200.485	5.682	200.587	9.099	200.539	7.329	200.055	0.174	198.000	0.000	198.000	0.000
Monthly												
Min.	200.400	4.046	200.420	4.451	200.400	3.756	200.020	0.157	198.000	0.000	198.000	0.000
Max.	200.640	10.36	200.650	11.22	200.550	8.064	200.590	9.566	198.000	0.000	198.000	0.000
Mean	200.554	7.577	200.577	8.559	200.481	5.723	200.236	3.314	198.000	0.000	198.000	0.000

Peak Computed Discharge = 550.9 cumecs on 09/07/2016 Corres. Water Level :204.45 m

Lowest Computed Discharge = 0.338 cumecs on 19/03/2017 Corres. Water Level :200.12 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

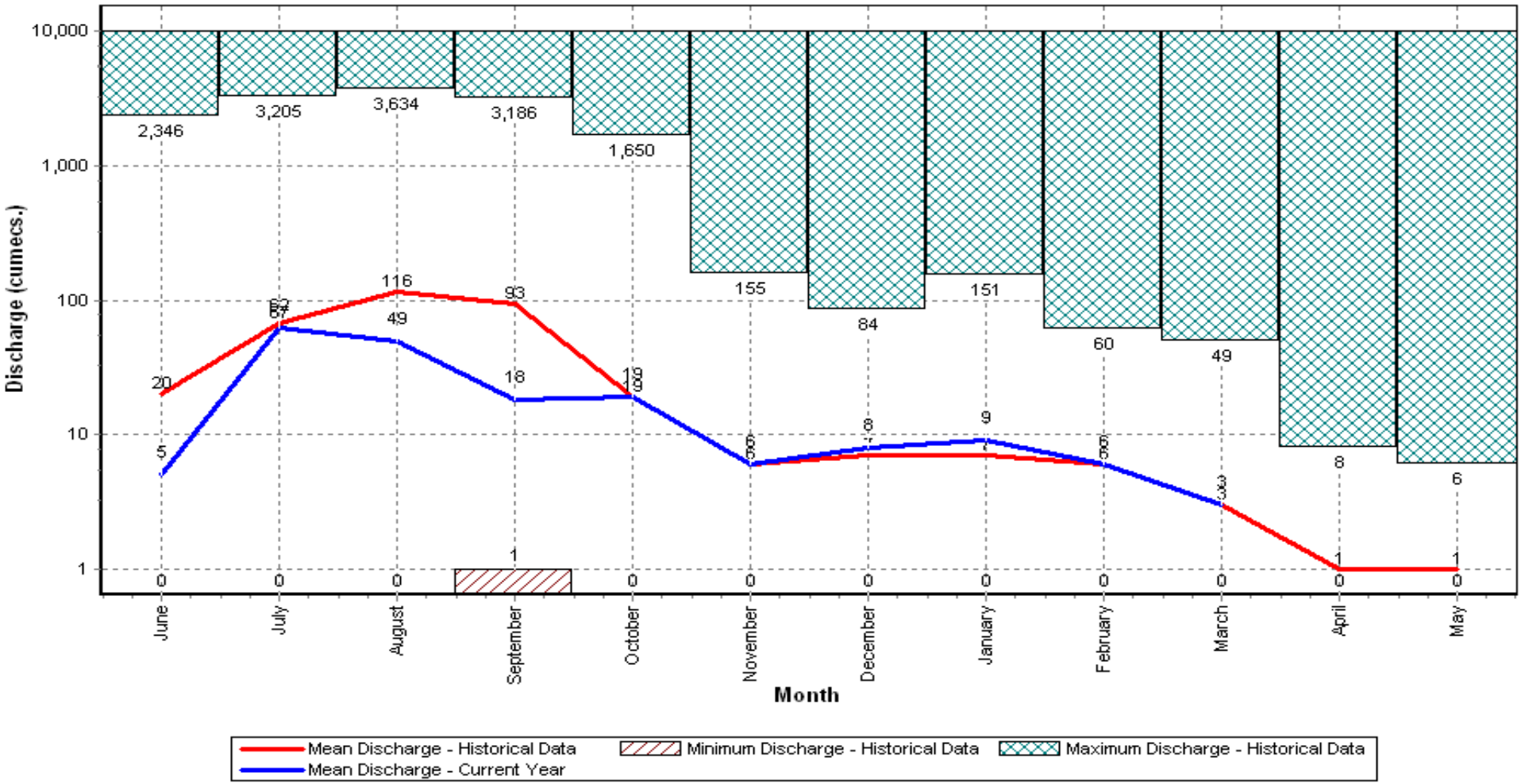
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : NANDGAON (AGH3AF4) | **Data considered : 1986-2017** | **Division : Wainganga Div., Nagpur**

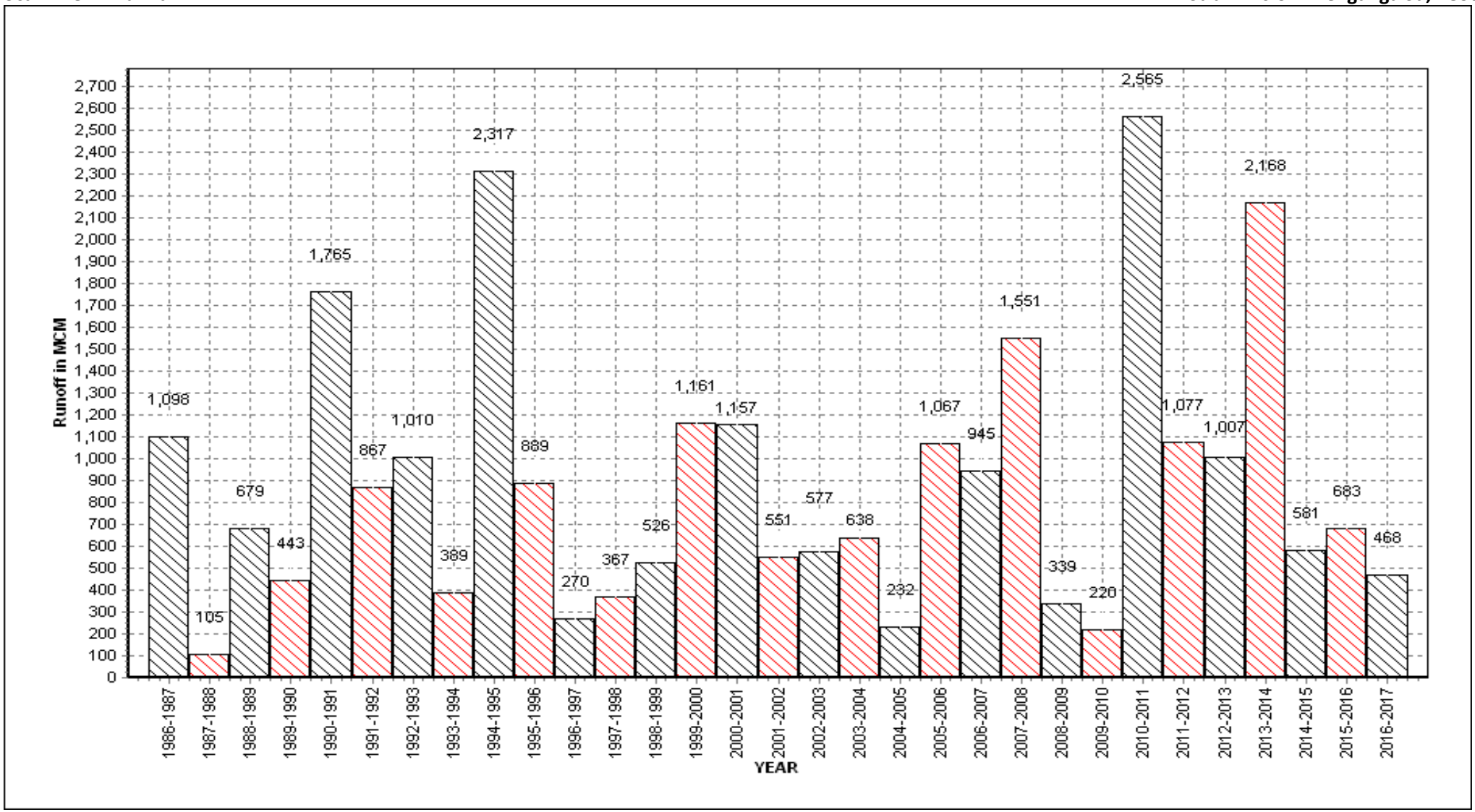
Local River : Wunna | **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1986 - 2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

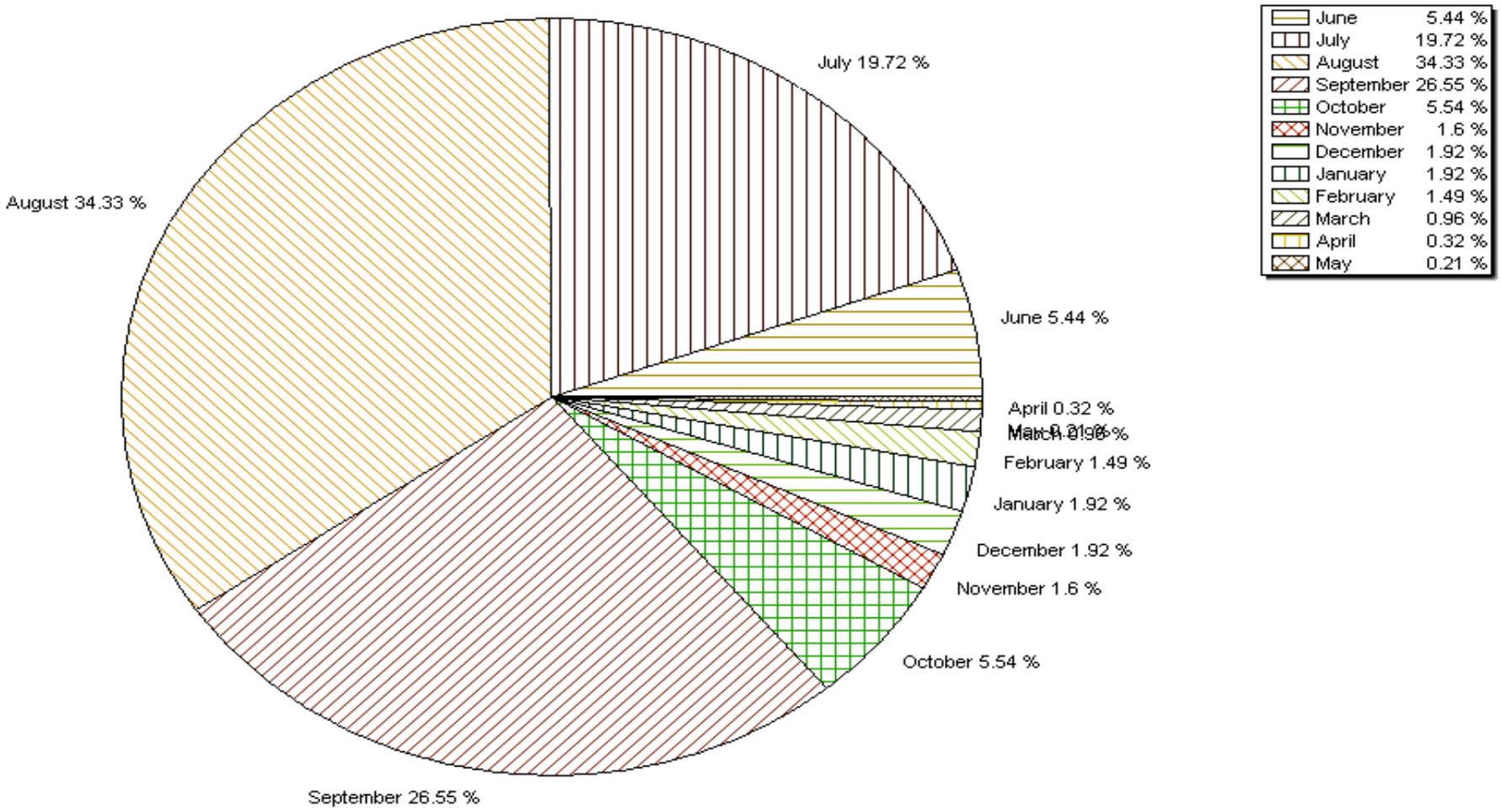


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1986-2016

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

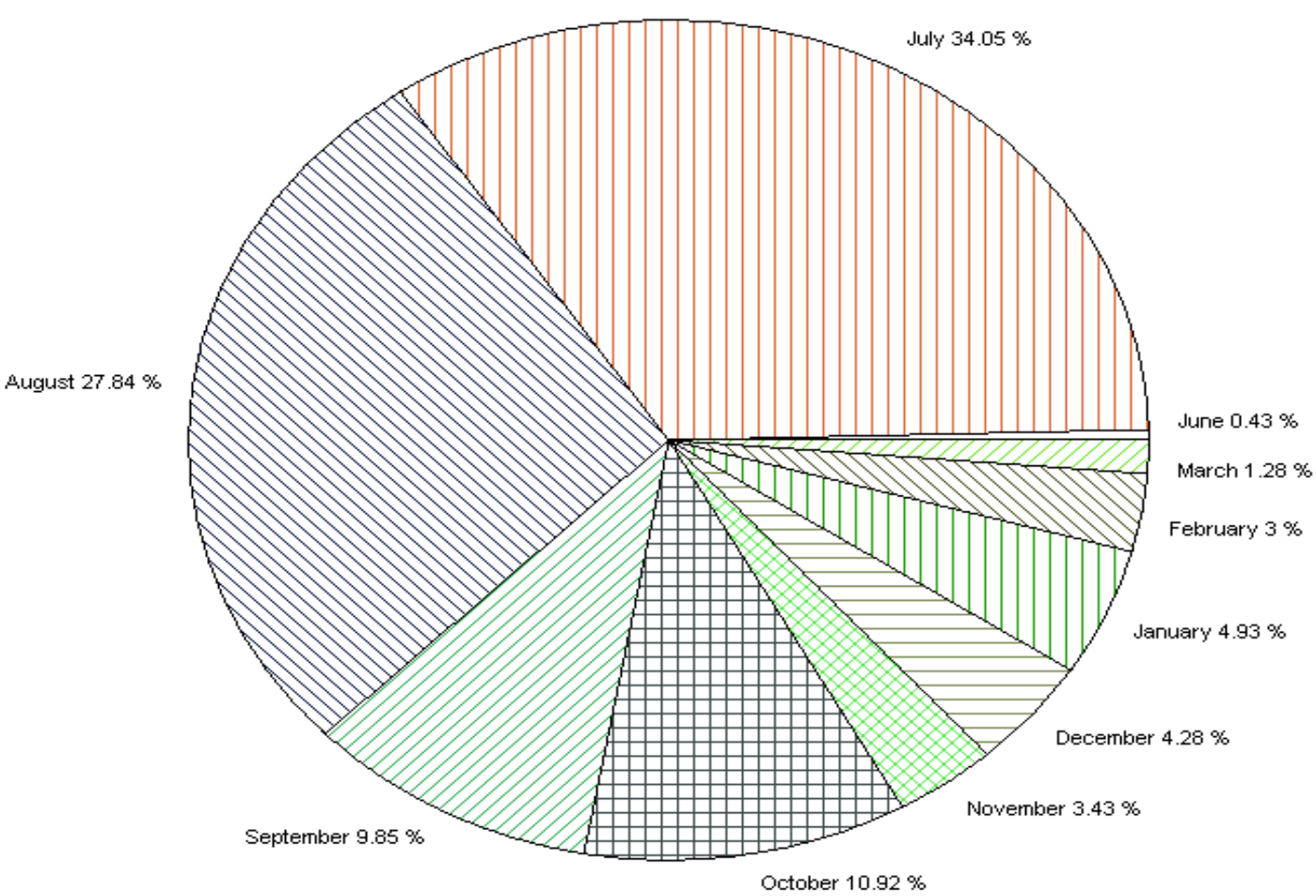
Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



Monthly Runoff for the Year : 2016-2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

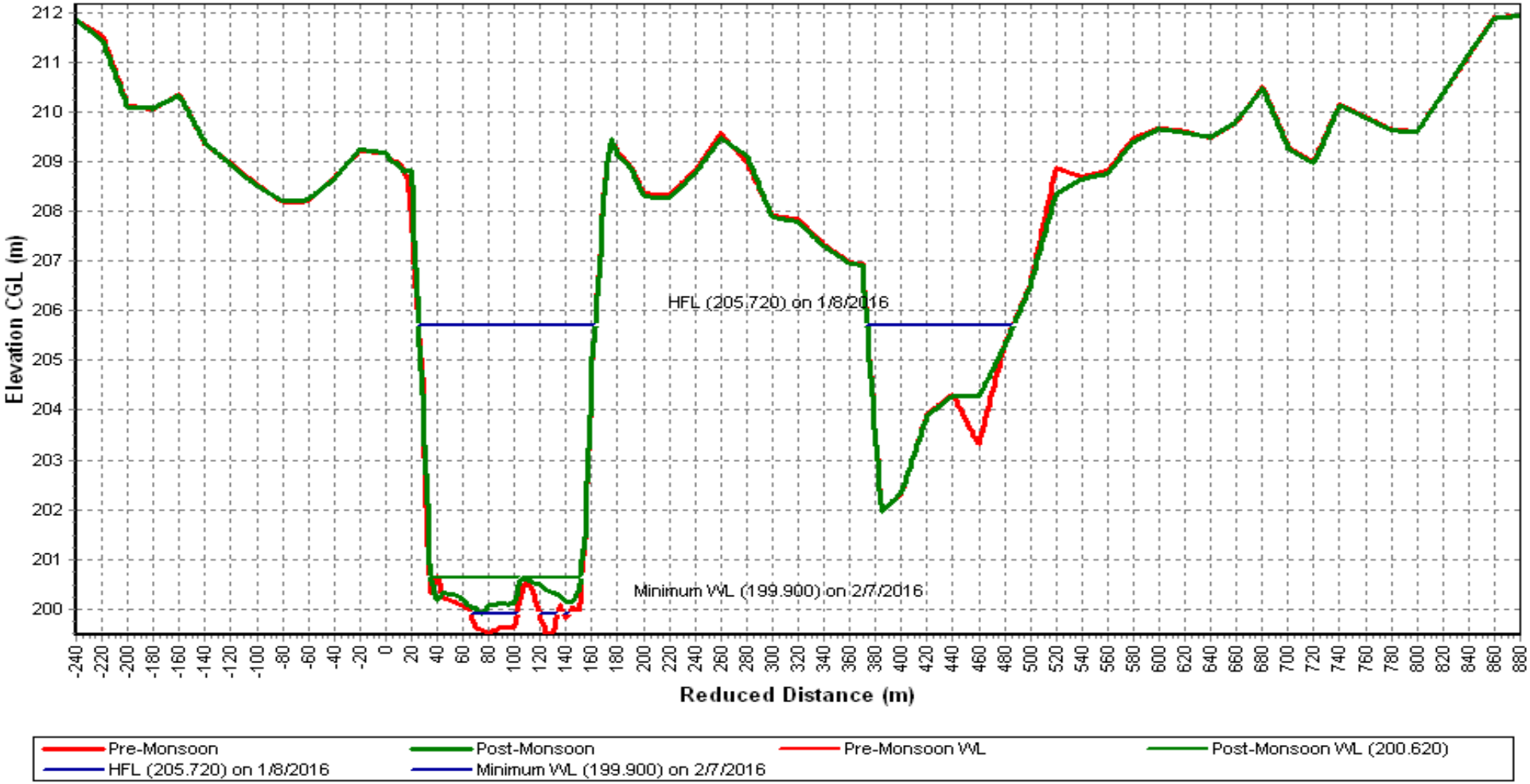
Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

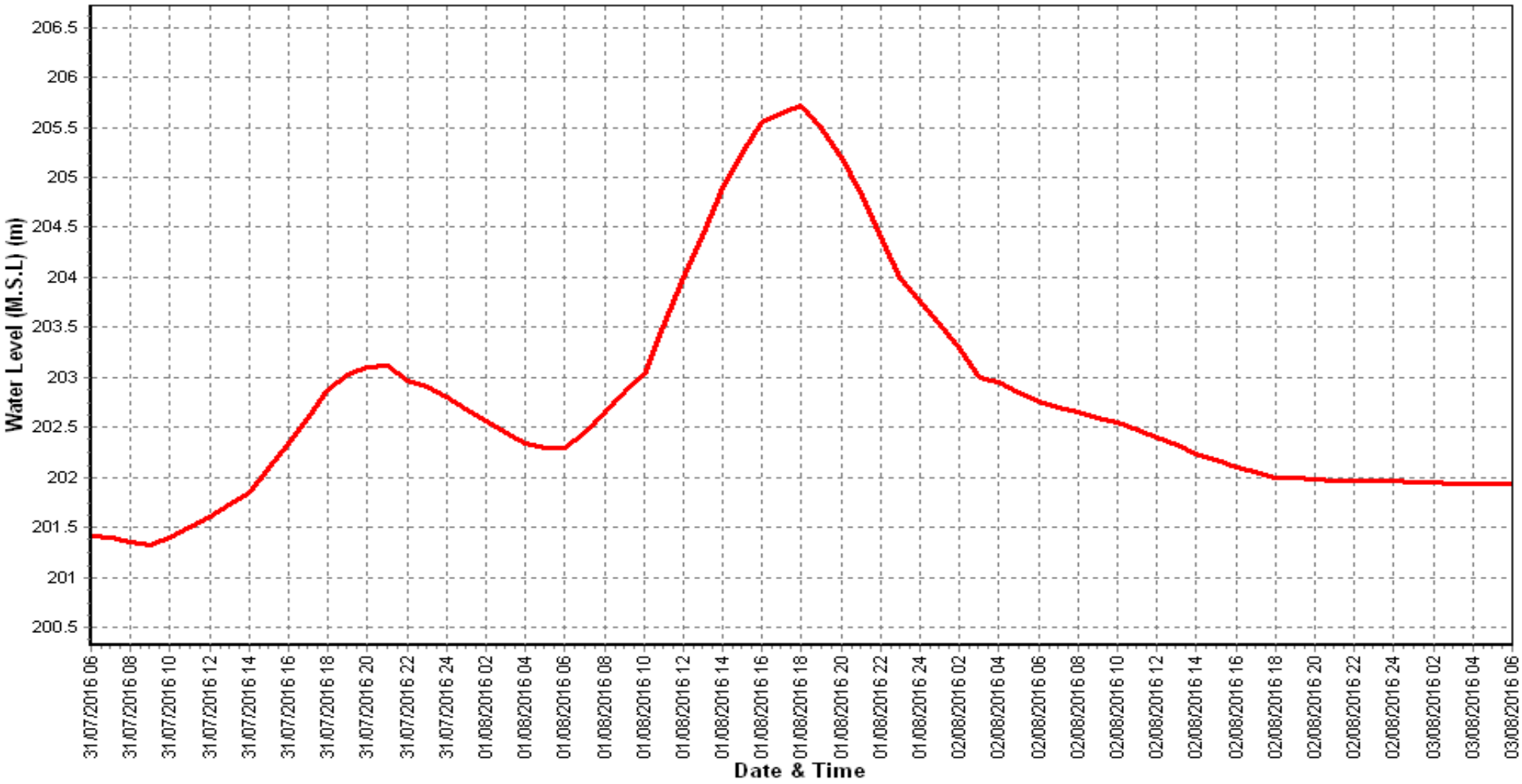
Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

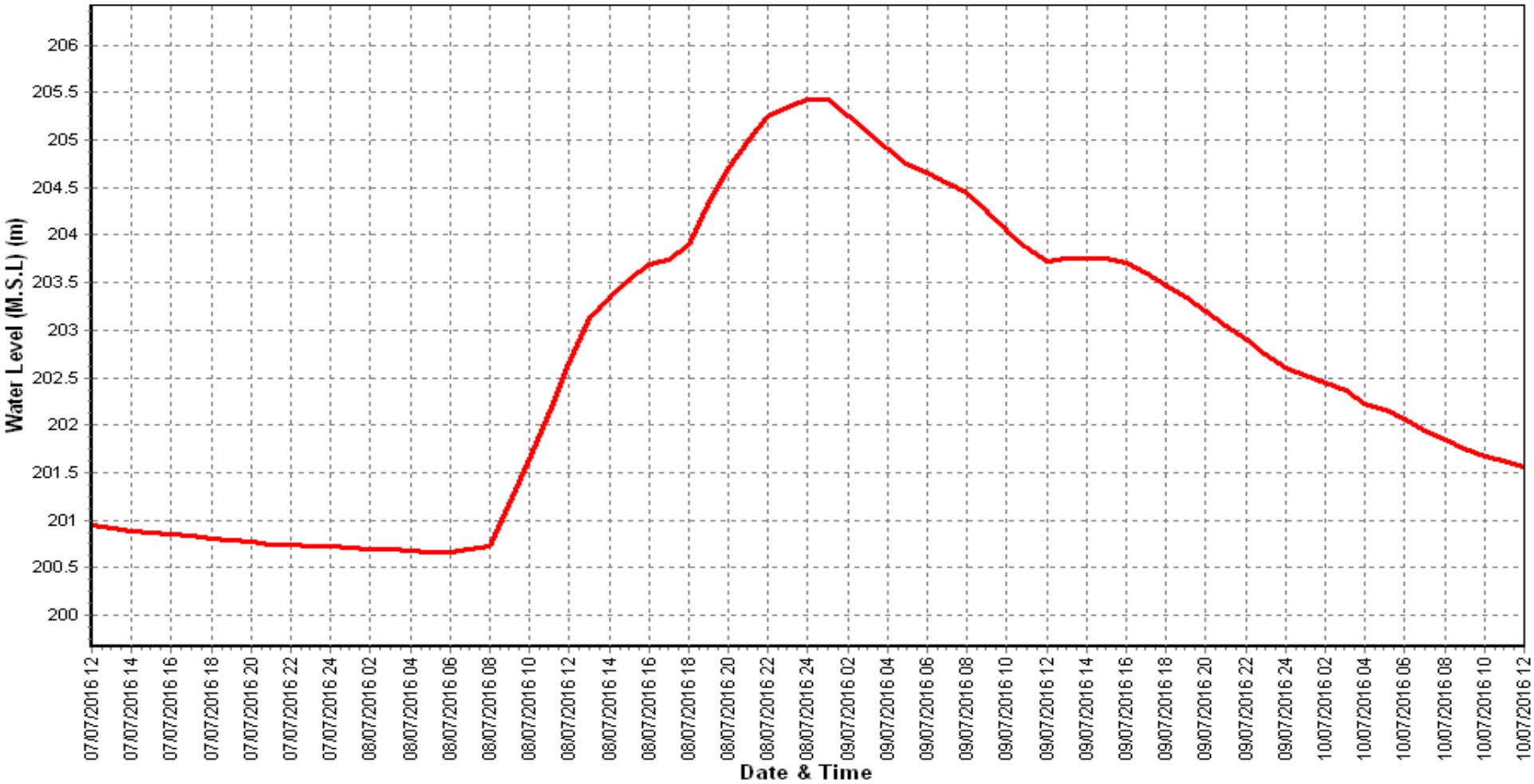


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**

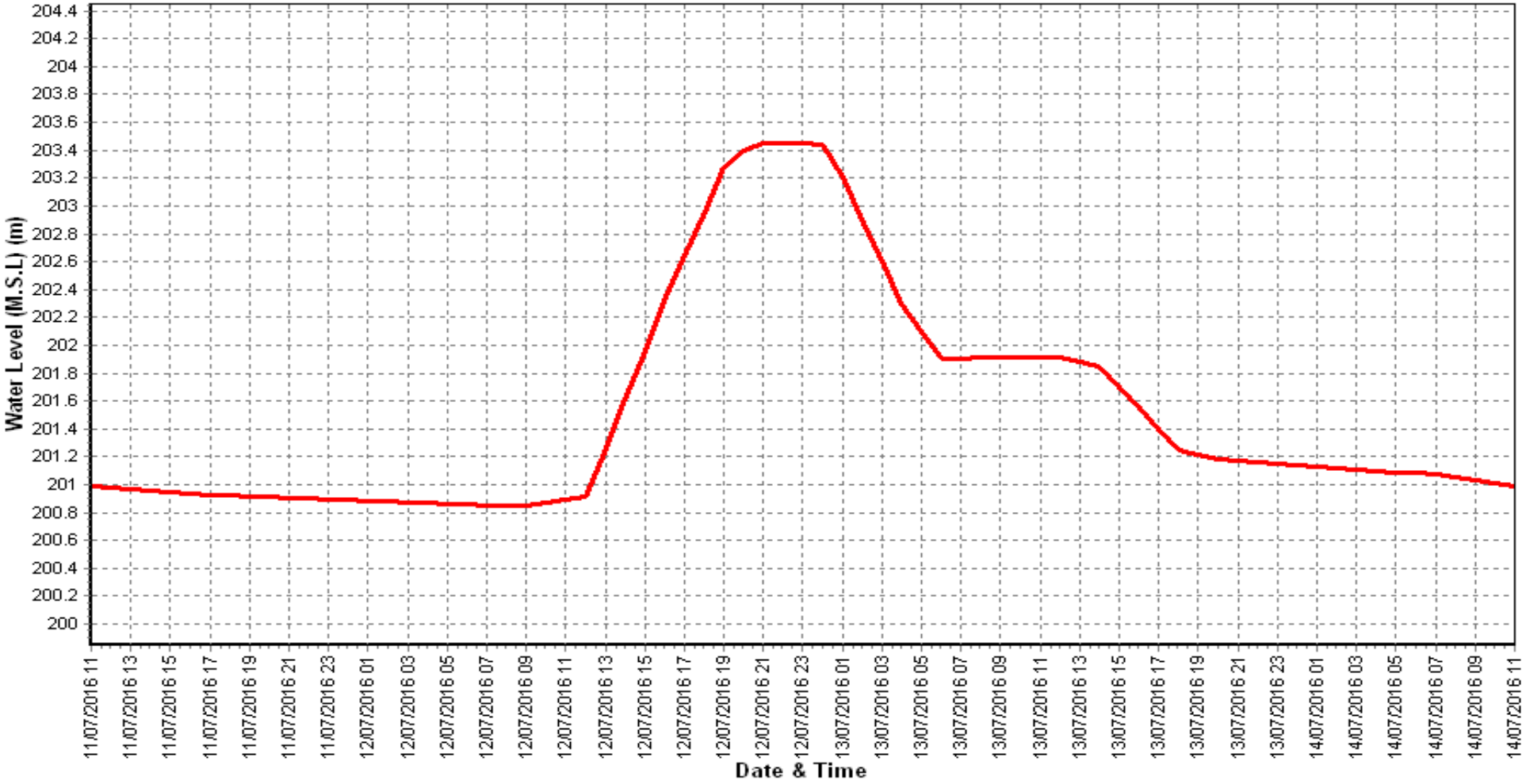


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : NANDGAON (AGH3AF4) **Division : Wainganga Div., Nagpur**

Local River : Wunna **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: HIVRA**		**Code**	**: AGH30Q1**	
State	: Maharashtra		District		Wardha
Basin	: Godavari		Independent River	:	Godavari
Tributary	: Pranhita		Sub Tributary	:	Wardha
Sub-Sub Tributary	: -		Local River	:	Wardha
Division	: Wainganga Div., Nagpur		Sub-Division	:	Penganga Sd, Yeotmal
Drainage Area	: 10240 Sq. Km.		Bank	:	Left
Latitude	: 20°32'52"		Longitude	:	78°19'30"
Zero of Gauge (m)	: 230 (m.s.l)		20.11.1986		
	Opening Date		Closing Date		
Gauge	: 20.11.1986				
Discharge	: 11.08.1987		**HFL During 2016-17**	**:**	**236.400 Meter**
			Corres.Discharge	**:**	**807.9599 Cumecs(Estimated)**
Sediment	: 26.06.1990		**Date & Time of**	**:**	**02.09.2016**
			Occurance	**:**	**12.00 Hrs.**
Water Quality	: 16.12.1987				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	2238	235.300	20.08.1987	0.000	231.980	06.02.1988
1988-1989	2150	243.800	03.10.1988	0.000	232.050	02.05.1989
1989-1990	911.0	238.070	19.08.1989	0.003	231.565	18.05.1990
1990-1991	1940	240.555	31.08.1990	0.000	232.075	16.05.1991
1991-1992	5377	244.000	01.08.1991	0.000	232.035	25.03.1992
1992-1993	3050	241.980	22.08.1992	0.000	231.300	19.06.1992
1993-1994	263.2	234.670	01.09.1993	0.000	232.120	06.05.1994
1994-1995	6862	246.310	07.09.1994	0.000		02.06.1994
1995-1996	883.0	237.900	02.09.1995	0.000	231.945	07.05.1996
1996-1997	459.7	235.250	17.09.1996	0.000	231.180	30.05.1997
1997-1998	475.3	236.020	01.12.1997	0.000	231.990	12.06.1997
1998-1999	1889	239.250	16.09.1998	0.523	232.215	13.05.1999
1999-2000	3946	242.500	10.08.1999	0.512	232.125	17.05.2000
2000-2001	2425	240.360	19.07.2000	0.000	232.040	21.05.2001
2001-2002	4151	242.380	14.06.2001	0.000		11.05.2002
2002-2003	2415	240.400	25.06.2002	0.000	231.760	01.05.2003
2003-2004	322.4	234.490	10.08.2003	0.000	0.000	21.04.2004
2004-2005	675.6	236.190	05.08.2004	0.000	0.000	28.04.2005
2005-2006	2445	240.350	28.07.2005	0.000		21.06.2005
2006-2007	3039	241.025	05.08.2006	0.004	231.930	24.06.2006
2007-2008	4261	242.710	09.08.2007	2.313	232.070	07.06.2007
2008-2009	160.1	233.890	30.06.2008	0.059	232.390	24.06.2008

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2009-2010	54.56	233.440	04.09.2009	3.924	232.630	08.09.2009
2010-2011	2936	239.470	31.08.2010	0.000	232.360	25.01.2011
2011-2012	2761	240.110	05.09.2011	0.000	232.280	25.01.2012
2012-2013	4698	242.950	06.09.2012	0.000	232.280	02.11.2012
2013-2014	2699	241.130	24.08.2013	0.000	231.800	04.06.2013
2014-2015	2740	241.100	24.07.2014	0.000	232.100	25.02.2015
2015-2016	3128	241.300	06.08.2015	0.000	231.660	04.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	232.110	5.396	232.620	22.20 #	232.645	43.26	232.530	28.98	234.930	428.1	232.060	5.596
2	232.100	5.265	232.230	7.016	236.280	764.5	236.250	777.0	233.930	207.3 *	232.040	5.282
3	232.350	11.49 #	233.220	62.41 *	233.670	179.7	233.600	170.0	233.270	97.50	231.970	3.641
4	232.320	10.55 #	233.280	68.85	236.100	696.8	233.000	75.00 *	233.140	89.24	232.040	5.277
5	232.320	10.55 *	232.760	46.29	232.980	73.91	232.550	32.49 *	233.110	85.77	232.090	6.211
6	232.350	12.20	234.180	252.3 *	232.710	47.01	232.300	14.90	232.970	79.69	232.090	5.953 *
7	232.160	6.212	233.760	179.0 #	235.430	531.9 *	232.220	12.58	233.340	93.05	232.020	5.032
8	231.940	2.308	232.530	30.96 #	233.225	83.83	232.120	7.340	232.700	44.48	232.030	5.200
9	231.830	1.274 #	236.140	734.9	232.950	70.03	232.110	7.683	233.360	119.4 *	232.060	5.803
10	231.820	1.188 #	234.780	375.4 *	232.790	49.94	232.040	4.151 #	233.790	188.1	232.080	6.612
11	231.790	0.953 #	233.190	73.26	232.590	35.42	232.010	3.245 *	232.930	67.41 *	232.100	7.104
12	231.750	0.686 *	234.100	237.5 #	232.460	26.90	232.010	3.245 #	232.750	49.51 *	232.080	6.616
13	231.740	0.607	234.020	223.1 #	232.420	25.99	232.000	2.965 *	232.660	41.75	232.050	4.951 *
14	231.740	0.607	233.140	86.32	232.390	21.16 *	232.230	11.70	233.730	181.8	232.000	3.795 *
15	231.740	0.606	232.505	32.33	232.340	18.05 *	232.450	26.37	233.750	186.3	231.940	2.502
16	231.730	0.587	232.440	28.92	232.330	15.83	232.820	54.00	232.600	23.68 *	231.930	2.418
17	231.730	0.574	232.390	21.16 *	232.310	15.20	232.470	27.73	232.500	19.56 #	231.920	2.300
18	231.740	0.616	232.360	20.22	232.300	14.66	232.310	16.29 *	232.365	12.60	231.910	2.207
19	231.770	0.813 *	232.330	18.70	232.280	14.60	232.260	12.97	232.370	12.89	231.940	2.650
20	231.800	1.063	232.280	12.82	232.270	13.38	232.230	11.98 #	232.370	12.86	231.950	2.755 *
21	231.800	1.066	232.270	12.26	232.170	9.136 *	233.805	191.7	232.370	12.79	231.900	1.395
22	231.780	0.887	232.410	22.46 #	232.140	8.508	233.000	79.00	232.390	13.66	231.900	1.388
23	231.920	2.390	232.700	38.89	232.630	36.02	232.430	22.97	232.390	15.37 *	231.890	1.329
24	232.040	4.053	232.690	44.08 *	232.700	45.37	232.330	18.41	232.400	14.39	231.860	1.259
25	232.030	3.923	232.470	30.64	232.710	46.51	232.500	28.73 *	232.390	13.87	231.900	1.428
26	232.020	3.614 *	232.740	42.48	232.720	47.38	234.390	347.9	232.280	11.85	231.960	2.682
27	232.000	3.518	234.750	421.8	232.700	45.75	234.120	241.2 #	232.200	10.15	232.010	4.017 *
28	231.960	2.495	236.010	683.1	232.690	44.08 *	233.140	88.67	232.150	6.836	232.030	4.476 #
29	232.410	13.18	233.050	81.13	232.680	44.64	232.700	45.68	232.110	6.286	232.050	6.027
30	233.280	66.60	232.605	36.80	232.700	45.86	232.425	23.12	232.090	5.953 *	232.060	6.125
31			232.810	55.21 *	232.680	44.09			232.080	5.984		
en-Daily Mean												
I Ten-Daily	232.130	6.644	233.550	177.9	233.878	254.1	232.872	113.0	233.454	143.3	232.048	5.461
II Ten-Daily	231.753	0.711	232.876	75.43	232.369	20.12	232.279	17.05	232.802	60.84	231.982	3.730
III Ten-Daily	232.124	10.17	233.137	133.5	232.593	37.94	233.084	108.7	232.259	10.65	231.956	3.013
Monthly												
Min.	231.730	0.574	232.230	7.016	232.140	8.508	232.000	2.965	232.080	5.953	231.860	1.259
Max.	233.280	66.60	236.140	734.9	236.280	764.5	236.250	777.0	234.930	428.1	232.100	7.104
Mean	232.002	5.842	233.186	129.1	232.935	101.9	232.745	79.6	232.820	69.62	231.995	4.068

Annual Runoff in MCM = 1120 Annual Runoff in mm = 109

Peak Observed Discharge = 777.0 cumecs on 02/09/2016 Corres. Water Level :236.25 m

Lowest Observed Discharge = 0.190 cumecs on 17/04/2017 Corres. Water Level :231.7 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	232.070	4.818 #	231.980	3.174 *	232.080	4.624	232.050	4.981	231.830	1.128	231.600	0.000
2	232.090	5.220 #	231.970	2.765	232.090	4.718	232.050	4.956	231.830	1.094 *	231.600	0.000
3	232.090	5.220 #	231.980	2.882	232.120	6.255	232.080	5.477	231.830	1.096	231.600	0.000
4	232.090	5.220 *	231.980	2.882	232.110	5.854	232.090	5.703	231.820	1.075	231.600	0.000
5	232.050	4.429 #	231.960	2.707	232.110	5.635 *	232.090	5.220 *	231.800	0.547	232.870	54.74
6	232.080	5.017 #	231.990	3.011	232.100	5.783	232.060	5.154	231.790	0.541	232.900	56.06
7	232.100	6.577	232.000	3.031	232.090	4.950	232.040	4.860	231.770	0.514	232.990	55.62 *
8	232.070	5.982	232.030	4.053 *	232.070	4.756	232.020	4.611	231.760	0.504	233.050	71.58
9	232.080	6.314	232.030	3.287	232.050	4.368	232.000	4.355	231.760	0.430 *	232.690	31.08 #
10	232.090	5.220 #	232.040	3.414	232.060	4.454	232.000	4.309	231.720	0.225	232.650	28.43 *
11	232.100	5.426 *	232.140	6.440	232.050	4.303	231.980	3.817	231.720	0.251	232.370	12.45
12	232.100	5.426 *	232.160	6.682	232.050	4.429 *	231.980	3.174 *	231.710	0.221	232.330	11.44
13	232.130	5.567	232.150	6.493	232.040	4.491	231.960	2.847 *	231.710	0.200	232.320	11.12
14	232.110	5.364	232.150	6.503 *	232.030	4.268	231.900	1.973	231.710	0.211 *	232.320	11.66 *
15	232.100	5.213	232.150	6.503 *	232.020	4.214	231.890	1.892	231.710	0.197	232.400	12.95
16	232.090	4.907	232.140	6.477	232.010	4.131	231.890	1.904	231.700	0.178 *	232.400	12.83
17	232.080	4.578	232.120	6.254	231.990	3.164	231.880	1.821	231.700	0.190	232.400	12.87
18	232.070	4.818 *	232.100	5.861	232.000	3.294	231.880	1.815	231.660	0.000	232.400	13.02
19	232.070	4.034	232.100	5.788	231.990	3.343 *	231.900	1.956 *	231.660	0.000	232.420	13.55
20	232.100	5.151	232.080	4.327	231.950	3.036	231.920	2.040	231.650	0.000	232.330	11.61
21	232.100	4.814	232.070	4.162	231.940	2.968	231.910	1.916	231.650	0.000	232.290	10.55 *
22	232.090	5.052	232.070	4.818 *	231.960	3.140	231.900	1.846	231.650	0.000	232.210	8.594
23	232.080	4.736	232.040	4.121	231.980	3.896	231.900	1.907	231.650	0.000	232.020	3.369 #
24	232.090	5.059	232.030	3.979	231.990	4.099	231.890	1.640	231.640	0.000	231.900	1.927
25	232.080	5.017 *	232.000	2.945	232.010	4.412	231.890	1.762	231.640	0.000	231.900	1.982
26	232.080	4.728	232.000	3.515 *	232.010	3.691 *	231.870	1.562 *	231.630	0.000	231.850	1.187
27	232.070	4.293	231.980	2.792	232.000	4.182	231.850	1.217	231.630	0.000	231.850	1.180
28	232.060	4.148	231.970	2.674	232.030	4.633	231.850	1.320 *	231.630	0.000	231.840	0.987 *
29	232.050	4.030	231.970	3.009 *			231.850	1.222	231.620	0.000	231.830	1.097
30	232.000	2.872	232.030	3.961			231.840	1.183	231.620	0.000	231.800	0.579
31	231.980	2.828	232.070	4.435			231.840	1.168			231.790	0.565
Ten-Daily Mea												
I Ten-Daily	232.081	5.402	231.996	3.120	232.088	5.140	232.048	4.963	231.791	0.715	232.355	49.58
II Ten-Daily	232.095	5.048	232.129	6.133	232.013	3.867	231.918	2.324	231.693	0.207	232.369	12.35
III Ten-Daily	232.062	4.325	232.021	3.674	231.990	3.878	231.872	1.522	231.636	0.000	231.935	2.911
Monthly												
Min.	231.980	2.828	231.960	2.674	231.940	2.968	231.840	1.168	231.620	0.178	231.600	0.565
Max.	232.130	6.577	232.160	6.682	232.120	6.255	232.090	5.703	231.830	1.128	233.050	71.58
Mean	232.079	4.906	232.048	4.289	232.033	4.325	231.944	2.891	231.707	0.506	232.210	16.78

Peak Computed Discharge = 531.9 cumecs on 07/08/2016 Corres. Water Level :235.43 m

Lowest Computed Discharge = 0.178 cumecs on 16/04/2017 Corres. Water Level :231.7 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

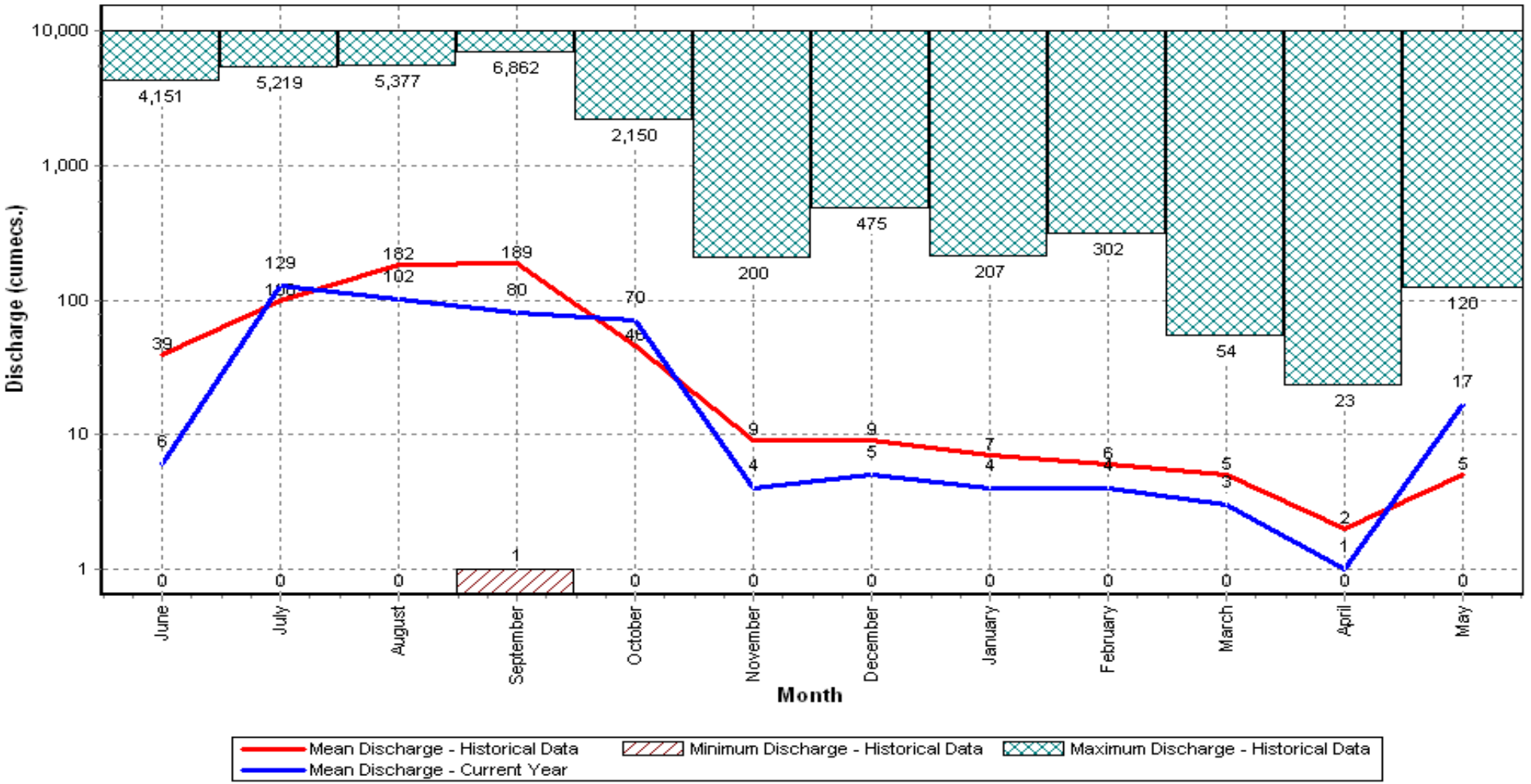
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : HIVRA (AGH30Q1) **Data considered : 1987-2017** **Division : Wainganga Div., Nagpur**

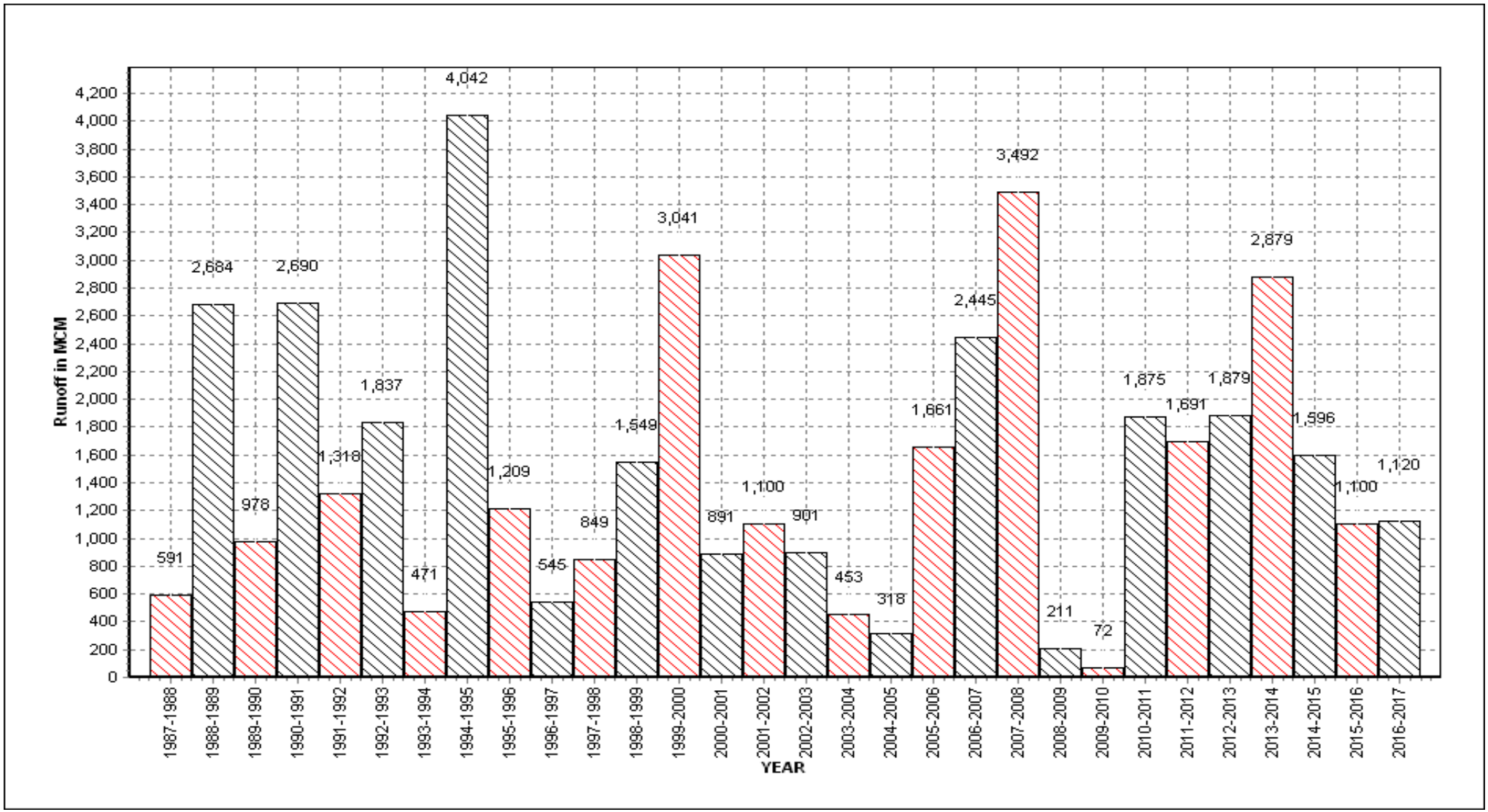
Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



Annual Runoff Values for the period: 1987 - 2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

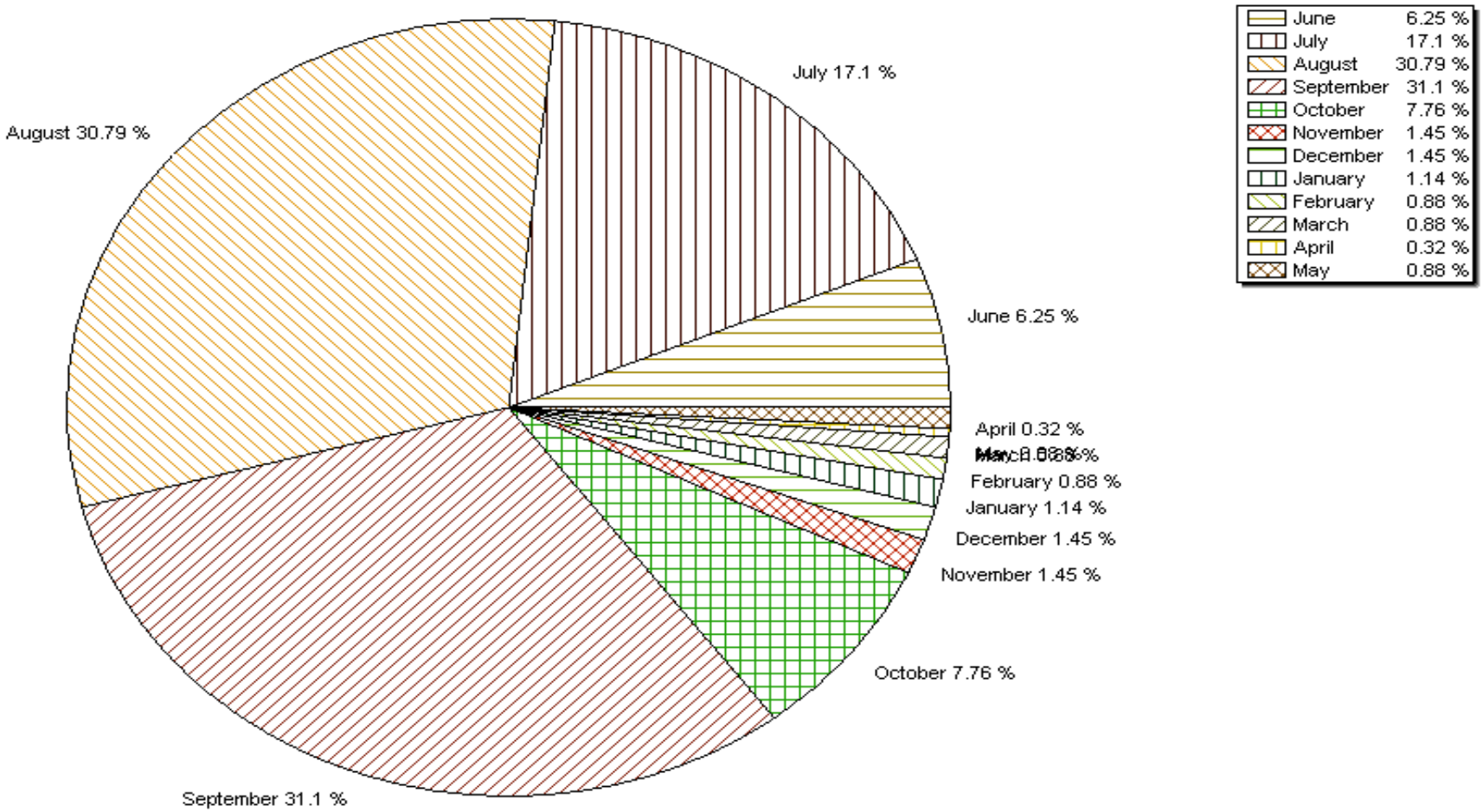


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1987-2016

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

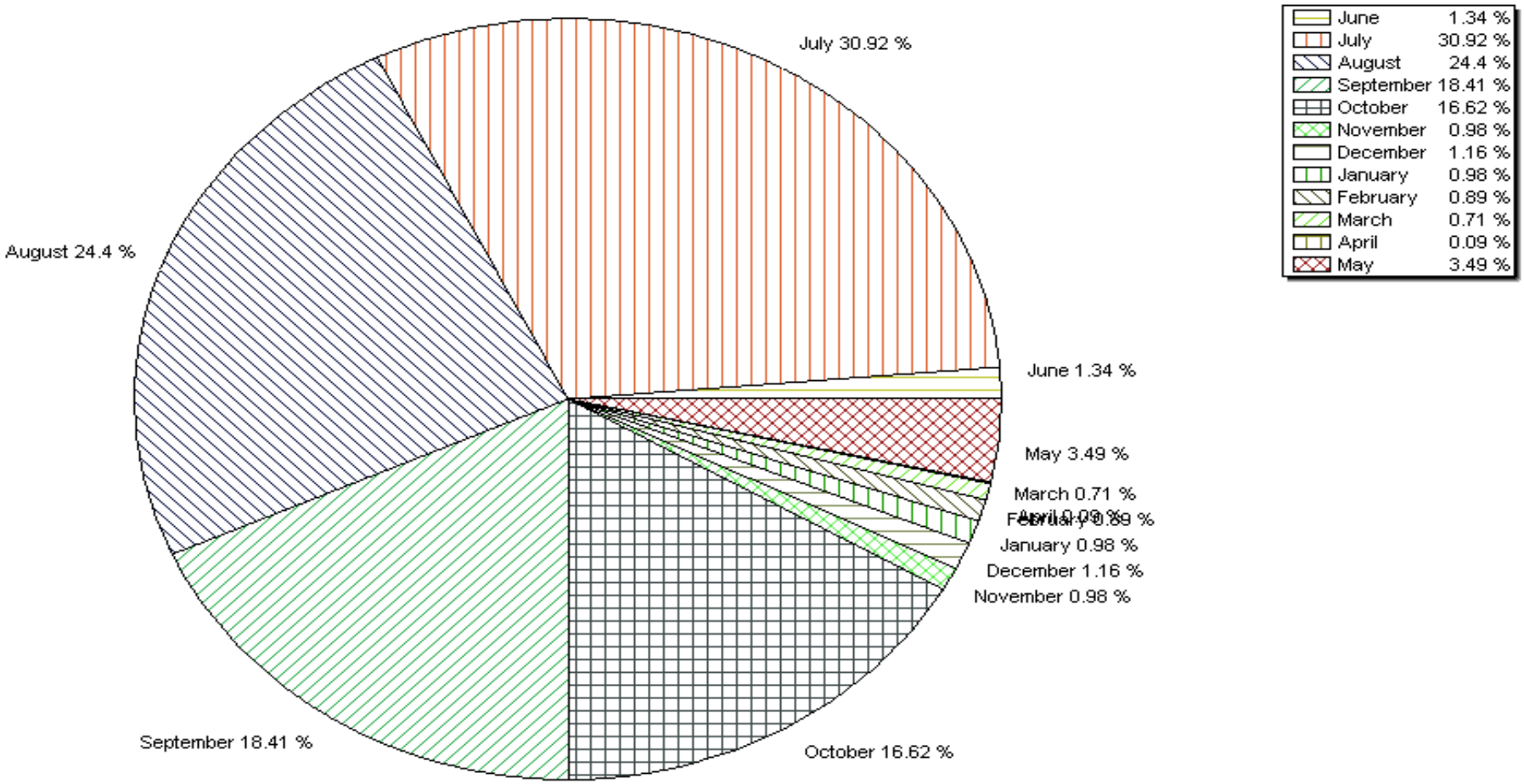
Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



Monthly Runoff for the Year : 2016-2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

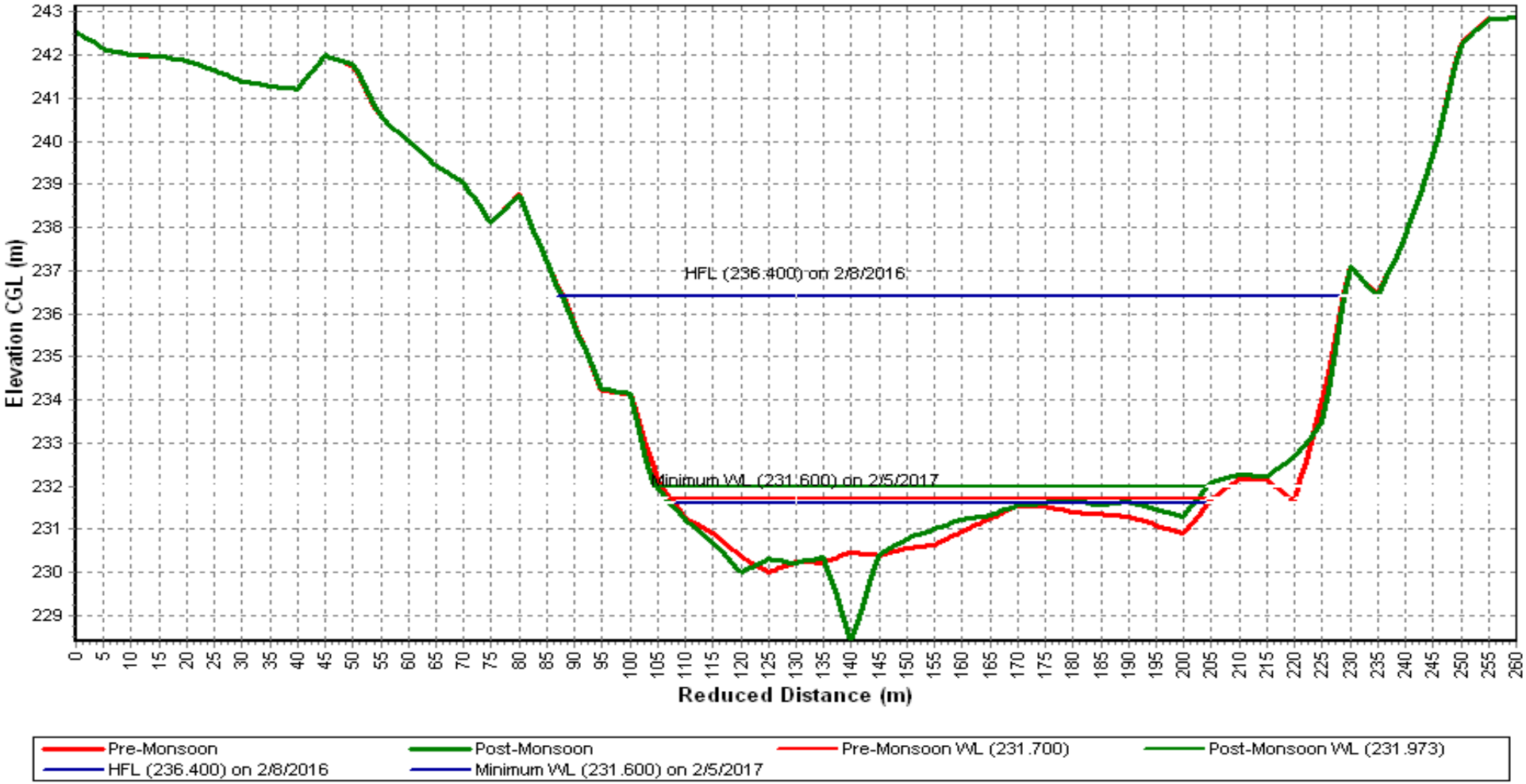
Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

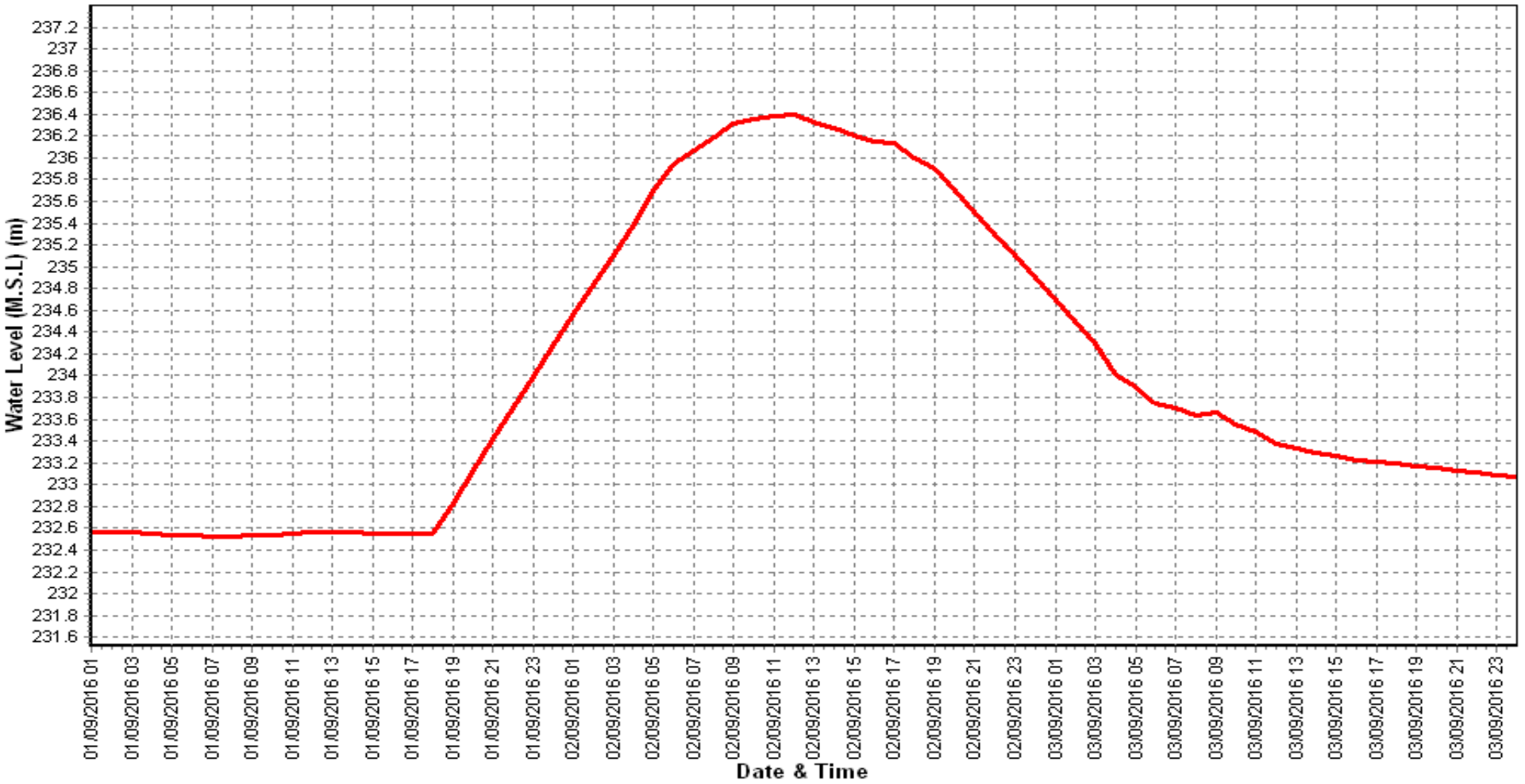
Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

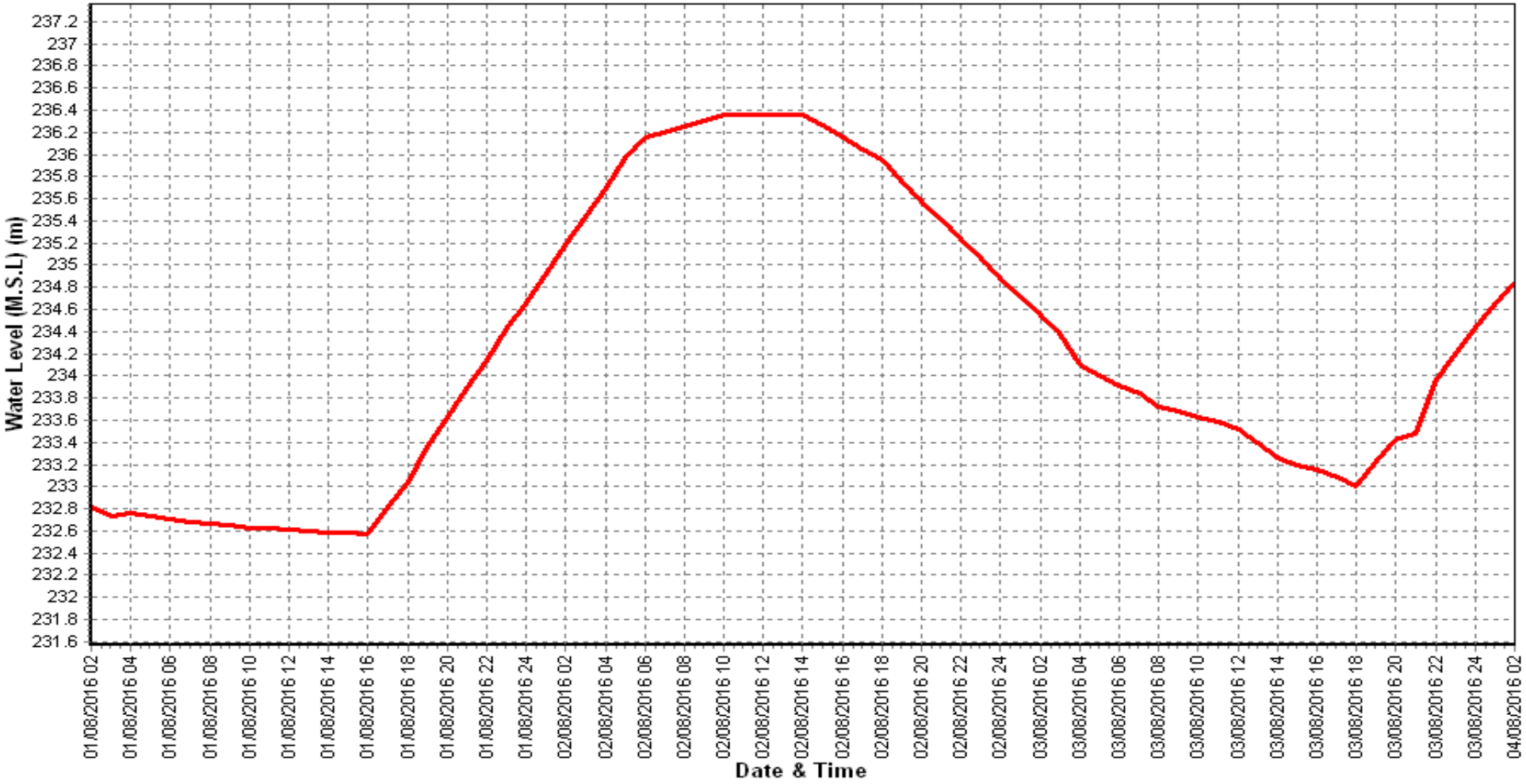


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**

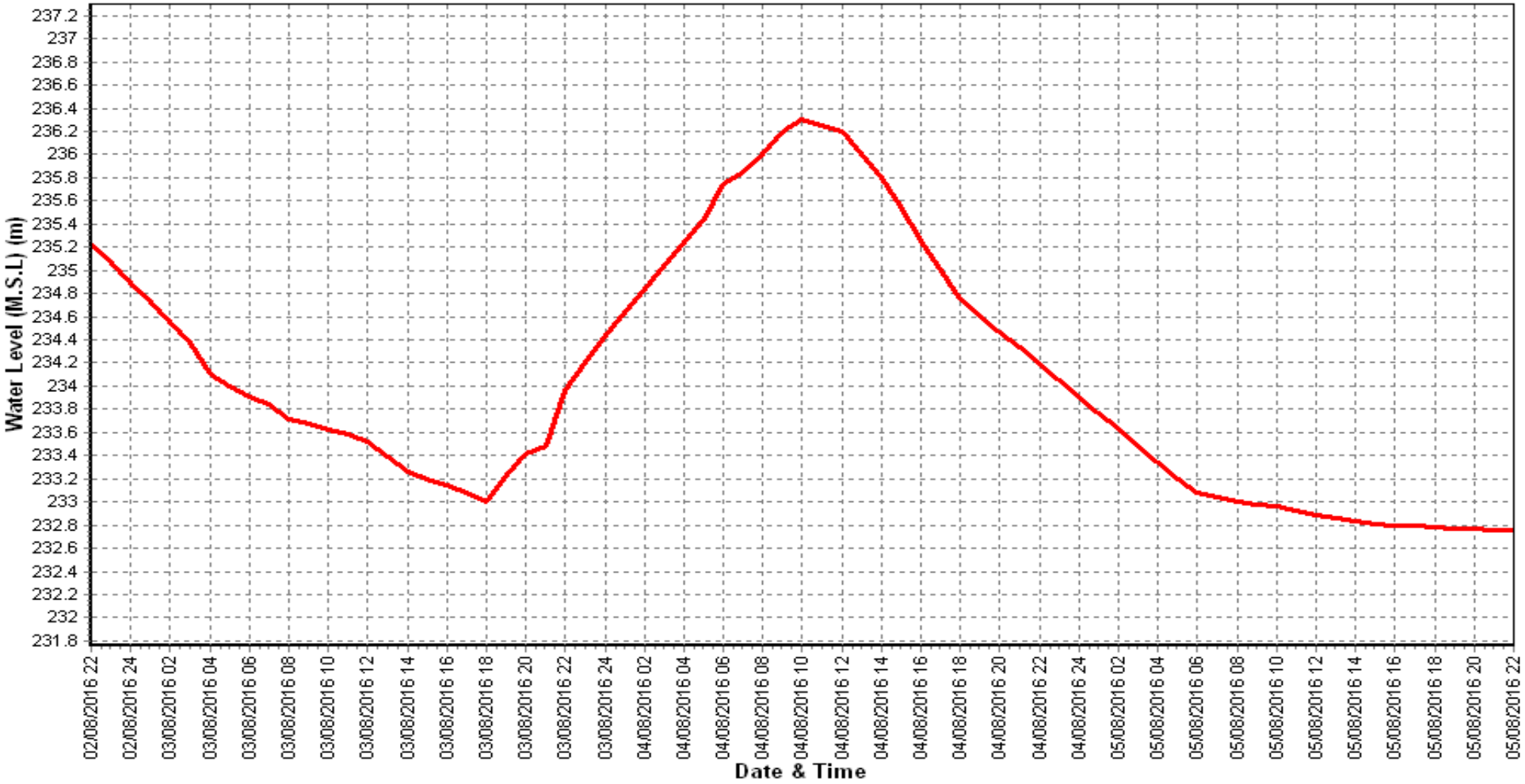


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : HIVRA (AGH30Q1) **Division : Wainganga Div., Nagpur**

Local River : Wardha **Sub-Division : Penganga Sd, Yeotmal**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: ASHTI**		**Code**	**: AGH40A4**	
State	: Maharashtra		District	Gadchiroli	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: -		Local River	: Wainganga	
Division	: Wainganga Div., Nagpur		Sub-Division	: L Wainganga SD, Chandrapur	
Drainage Area	: 50990 Sq. Km.		Bank	: Left	
Latitude	: 19°41'12"		Longitude	: 79°47'13"	
Zero of Gauge (m)	: 137.276 (m.s.l) 141.42 (m.s.l)		01.08.1965 01.06.1993	- 31.05.1993	
	Opening Date		Closing Date		
Gauge	: 01.08.1965				
Discharge	: 14.07.1965		**HFL During 2016-17**	**: 151.370 Meter**	
			Corres.Discharge	**: 13423.24 Cumecs (Estimated)**	
Sediment	: 14.03.1966		**Date & Time of Occurance**	**: 11.07.2016 : 11.00 Hrs.**	
Water Quality	: 01.06.1966				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	3780	143.546	03.09.1965	0.000		14.06.1965
1966-1967	6840	145.781	08.08.1966	0.800		10.06.1966
1967-1968	15300	148.026	03.08.1967	0.400	138.131	12.06.1967
1968-1969	16469	149.151	17.08.1968	1.800	138.121	24.05.1969
1969-1970	11500	148.076	03.08.1969	1.000	138.101	04.06.1969
1970-1971	20520	149.586	05.09.1970	2.700	138.276	05.06.1970
1971-1972	13470	148.141	01.09.1971	1.700	138.121	31.05.1972
1972-1973	9250	146.321	01.09.1972	0.900	138.071	18.06.1972
1973-1974	13945	148.556	10.07.1973	0.600	138.131	09.06.1973
1974-1975	21554	149.256	21.08.1974	1.300	138.066	28.05.1975
1975-1976	20416	149.256	29.06.1975	0.205	138.151	23.06.1975
1976-1977	9846	146.894	05.09.1976	3.800	138.376	26.05.1977
1977-1978	13452	148.016	15.09.1977	2.300	138.396	14.06.1977
1978-1979	28200	150.731	31.08.1978	8.200	138.631	14.06.1978
1979-1980	22700	150.076	12.08.1979	1.000	138.301	30.05.1980
1980-1981	13500	147.246	05.08.1980	1.300	138.356	05.06.1980
1981-1982	16500	150.326	10.08.1981	2.200	138.511	17.06.1981
1982-1983	5391	145.096	19.08.1982	2.300	138.216	30.05.1983
1983-1984	12729	147.951	22.08.1983	1.080	138.156	14.06.1983
1984-1985	16457	148.491	21.08.1984	1.700	138.281	28.05.1985
1985-1986	7421	145.696	17.07.1985	2.000	138.336	02.06.1985

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	21000	150.596	15.08.1986	3.500	138.256	31.05.1987
1987-1988	5277	144.956	29.08.1987	0.800	137.986	30.05.1988
1988-1989	5390	145.246	31.07.1988	0.700	137.996	15.06.1988
1989-1990	6000	144.416	23.08.1989	0.900	138.256	11.05.1990
1990-1991	22320	150.226	23.08.1990	6.900	138.516	02.06.1990
1991-1992	17807	148.166	17.08.1991	2.500	138.336	23.05.1992
1992-1993	20000	147.996	23.08.1992	1.100	138.276	06.06.1992
1993-1994	8252	149.670	04.08.1993	2.980	142.430	31.05.1994
1994-1995	27874	155.100	13.07.1994	1.500	142.430	02.06.1994
1995-1996	13649	151.150	03.09.1995	1.000	142.600	26.05.1996
1996-1997	2660	146.760	22.08.1996	2.122	142.570	10.06.1996
1997-1998	10264	150.240	27.07.1997	0.392	142.330	17.06.1997
1998-1999	15084	151.870	16.09.1998	13.73	142.990	06.05.1999
1999-2000	20718	153.120	21.09.1999	11.25	142.960	12.06.1999
2000-2001	24276	154.750	20.07.2000	0.594	142.260	31.05.2001
2001-2002	15890	152.375	16.08.2001	0.412	142.250	02.06.2001
2002-2003	14178	151.740	21.08.2002	0.011	142.160	18.06.2002
2003-2004	15191	151.845	29.07.2003	4.500	142.590	04.06.2003
2004-2005	4609	148.440	23.08.2004	0.070	142.030	30.05.2005
2005-2006	24481	154.020	17.09.2005	0.177	141.990	15.06.2005
2006-2007	15551	152.670	17.08.2006	2.803	142.300	30.05.2007
2007-2008	20614	153.930	08.08.2007	2.417	142.280	07.06.2007
2008-2009	10718	150.270	01.08.2008	0.046	142.080	13.05.2009
2009-2010	8058	149.655	24.07.2009	1.721	142.230	27.06.2009
2010-2011	17500	152.570	09.09.2010	1.404	142.340	23.05.2011
2011-2012	16347	151.730	09.09.2011	1.337	142.300	28.05.2012
2012-2013	15830	151.700	07.09.2012	1.310	142.270	18.06.2012
2013-2014	18596	153.710	01.08.2013	1.229	142.240	10.06.2013
2014-2015	16908	152.435	25.07.2014	1.846	142.370	09.06.2014
2015-2016	12392	151.080	15.08.2015	0.811	142.190	21.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	142.240	2.081	144.730	768.9	145.610	1550	146.420	2476	146.950	3434	143.840	330.1
2	142.315	4.044	145.610	1608	145.970	2033	146.155	2335	146.830	3013 *	144.190	386.0
3	142.340	6.461	145.200	1128 *	146.160	2472	147.050	3440	146.620	2845	144.100	392.0
4	142.340	6.547	145.660	1760	146.550	2660	145.970	1900 *	146.245	2439	144.080	354.1
5	142.340	5.618 *	145.740	1839	147.225	3627	145.720	1627 *	145.855	1598	144.020	337.0
6	142.360	6.643	145.560	1463 *	147.830	4524	145.845	1898	145.510	1220	143.900	288.4
7	142.360	6.556	145.370	1363	147.980	4921 *	145.520	1246	145.090	1009	143.820	272.3
8	142.360	6.677	145.390	1432	149.570	9403	145.090	889.7	144.875	838.0	143.750	253.8
9	142.380	7.447	149.230	6951	148.810	6490	144.705	678.6	146.510	2568 *	143.600	207.8
10	142.360	6.642	149.940	9305 *	147.400	3771	144.590	561.3	146.950	3367	143.460	132.1
11	142.620	17.77	151.295	12476	146.500	2585	146.300	2296 *	146.640	2744 *	143.370	107.8
12	142.670	22.43 *	151.005	11956	145.770	1722	147.160	3517	146.170	2135 *	143.290	88.38
13	142.670	21.00	149.570	9558	145.780	1770	148.770	6514 *	145.740	1459	143.270	83.84
14	142.630	19.76	147.755	4197	145.630	1533 *	148.750	6425	145.360	1286	143.220	73.01
15	142.620	19.01	146.900	2673	145.320	1234 *	148.330	5815	145.050	1074	143.470	147.0
16	142.705	26.44	145.650	1709	145.570	1547	147.545	4024	144.860	852.5 *	143.470	145.8
17	142.790	30.15	145.010	969.0 *	145.200	1270	146.495	2614	144.760	650.8	143.380	120.7
18	142.880	32.11	144.860	764.7	144.595	561.1	145.790	1701 *	144.580	546.3	143.350	115.8
19	142.880	37.73 *	145.510	1515	144.200	381.2	145.435	1196	144.290	434.4	143.330	109.8
20	142.930	37.98	145.535	1539	144.655	580.9	145.110	903.3	144.170	401.8	143.250	79.41
21	142.950	42.86	145.130	1192	144.520	617.1 *	145.130	921.5	144.290	429.0	143.140	50.40
22	142.910	41.28	146.365	2535	144.240	418.2	145.280	1091	144.290	431.2	143.090	47.08
23	142.910	44.16	146.665	2972	144.295	441.8	144.850	737.1	144.280	474.6 *	143.030	35.12
24	142.890	40.22	146.210	2184 *	144.420	493.4	145.350	1148	144.265	413.9	142.980	30.23
25	142.880	38.05	146.030	2233	144.410	472.3	145.970	1900 *	144.250	410.2	142.940	27.07
26	142.850	35.34 *	146.705	3036	144.260	433.4	146.300	2586	144.200	389.4	142.920	26.48
27	142.890	41.49	146.100	2368	144.600	536.4	146.845	3051	144.050	367.2	142.900	21.90
28	143.330	105.5	145.620	1565	146.540	2608 *	147.020	3597	143.830	316.2	142.870	23.42
29	143.220	84.50	146.585	2618	146.180	2601	146.900	3294	143.670	198.9 #	142.850	16.70
30	144.380	438.0	145.900	1859	146.270	2661	147.440	3893	143.600	175.1 *	142.830	14.82
31			145.820	1733 *	145.790	1842			143.590	171.8 #		
Ten-Daily Mean												
I Ten-Daily	142.339	5.872	146.243	2762	147.311	4145	145.706	1705	146.143	2233	143.876	295.4
II Ten-Daily	142.740	26.44	147.309	4736	145.322	1318	146.969	3501	145.162	1158	143.340	107.2
III Ten-Daily	143.121	91.14	146.103	2209	145.048	1193	146.108	2222	144.029	343.4	142.955	29.32
Monthly												
Min.	142.240	2.081	144.730	764.7	144.200	381.2	144.590	561.3	143.590	171.8	142.830	14.82
Max.	144.380	438.0	151.295	12476	149.570	9403	148.770	6514	146.950	3434	144.190	392.0
Mean	142.733	41.15	146.537	3202	145.866	2186	146.261	2476	145.076	1216	143.390	143.9

Annual Runoff in MCM = 25251 Annual Runoff in mm = 495

Peak Observed Discharge = 12476 cumecs on 11/07/2016 Corres. Water Level :151.295 m

Lowest Observed Discharge = 0.276 cumecs on 08/05/2017 Corres. Water Level :142.17 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	142.820	20.69	143.140	52.29 *	143.320	105.6	143.310	99.65	142.780	24.89	142.240	0.875 #
2	142.820	21.12	143.140	52.84	143.340	113.1	143.290	96.22	142.730	21.42 *	142.220	0.629
3	142.800	20.38	143.170	56.33	143.350	108.8	143.250	82.22	142.690	19.24	142.220	0.618
4	142.780	18.84 *	143.150	54.76	143.380	121.4	143.230	76.61	142.640	15.83	142.210	0.581
5	142.770	18.93	143.150	54.74	143.340	106.7 *	143.200	79.99 *	142.620	15.16	142.200	0.545
6	142.760	17.00	143.150	54.58	143.320	104.6	143.130	58.96	142.610	14.96	142.190	0.407 #
7	142.750	16.30	143.140	53.57	143.320	105.8	143.090	62.16 #	142.570	13.32	142.180	0.338 *
8	142.750	16.34	143.120	49.97 *	143.340	112.6	143.130	59.04	142.530	11.17	142.170	0.276 #
9	142.730	16.16	143.100	48.36	143.360	114.8	143.120	57.87	142.520	8.483 *	142.380	2.938
10	142.720	15.29	143.100	48.61	143.360	114.6	143.140	62.09	142.470	7.183	142.440	5.313 *
11	142.710	14.36 *	143.170	57.05	143.340	109.8	143.110	56.59	142.440	5.198	142.470	6.810
12	142.710	14.36 *	143.170	56.12	143.340	106.7 *	143.110	65.20 *	142.430	4.874	142.490	6.604
13	142.700	14.17	143.190	60.21	143.330	106.6	143.090	62.16 *	142.410	3.805	142.440	6.335
14	142.700	14.06	143.170	56.51	143.320	105.7	143.060	54.91	142.440	5.313 *	142.420	4.656 *
15	142.770	19.72	143.160	54.67 *	143.320	104.6	143.050	54.09	142.480	8.261	142.400	3.886
16	142.770	19.57	143.150	52.50	143.350	113.6	143.040	53.14	142.480	6.786 *	142.380	3.021
17	142.740	18.43	143.150	53.59	143.370	115.7	143.030	52.94	142.470	6.815	142.380	3.256
18	142.710	14.36 *	143.150	55.14	143.350	111.6	143.010	51.70	142.460	6.600	142.390	3.672
19	142.690	12.17	143.140	51.36	143.310	100.6 *	143.000	49.54 *	142.450	5.101	142.400	3.805
20	142.670	11.74	143.130	53.53	143.310	99.98	143.000	54.91	142.430	4.675	142.410	4.170
21	142.660	11.27	143.120	52.62	143.310	100.3	142.990	48.03	142.410	3.868	142.400	4.050 *
22	142.650	10.48	143.160	54.67 *	143.310	100.6	142.990	47.33	142.400	3.681	142.390	3.719
23	142.630	9.820	143.190	56.55	143.310	101.1	142.980	45.01	142.390	3.766 *	142.380	3.646
24	142.630	9.845	143.300	99.23	143.320	102.8	142.980	45.27	142.360	2.264	142.360	3.197
25	142.620	9.525 *	143.320	106.6	143.400	131.1	142.970	44.74	142.320	1.817	142.340	2.937
26	142.800	22.07	143.320	102.6 *	143.410	121.8 *	142.880	35.31 *	142.300	1.489	142.330	2.810
27	143.020	35.46	143.320	105.4	143.350	112.1	142.780	24.80	142.290	1.457	142.320	2.588
28	143.040	37.48	143.320	106.1	143.320	101.1	142.700	19.13 *	142.280	1.414	142.300	1.742 *
29	143.060	39.24	143.320	102.6 *			142.660	15.66	142.270	1.297	142.290	1.514
30	143.060	39.21	143.320	106.2			142.600	14.06	142.260	1.125 *	142.280	1.453
31	143.100	46.79	143.320	103.3			142.730	21.25			142.270	1.406
Ten-Daily Mean												
I Ten-Daily	142.770	18.11	143.136	52.60	143.343	110.8	143.189	73.48	142.616	15.16	142.245	1.252
II Ten-Daily	142.717	15.29	143.158	55.07	143.334	107.5	143.050	55.52	142.449	5.743	142.418	4.621
III Ten-Daily	142.843	24.65	143.274	90.54	143.341	108.8	142.842	32.78	142.328	2.218	142.333	2.642
Monthly												
Min.	142.620	9.525	143.100	48.36	143.310	99.98	142.600	14.06	142.260	1.125	142.170	0.276
Max.	143.100	46.79	143.320	106.6	143.410	131.1	143.310	99.65	142.780	24.89	142.490	6.810
Mean	142.779	19.52	143.192	66.86	143.339	109.1	143.021	53.24	142.464	7.708	142.332	2.832

Peak Computed Discharge = 9305 cumecs on 10/07/2016 Corres. Water Level :149.94 m

Lowest Computed Discharge = 0.338 cumecs on 07/05/2017 Corres. Water Level :142.18 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

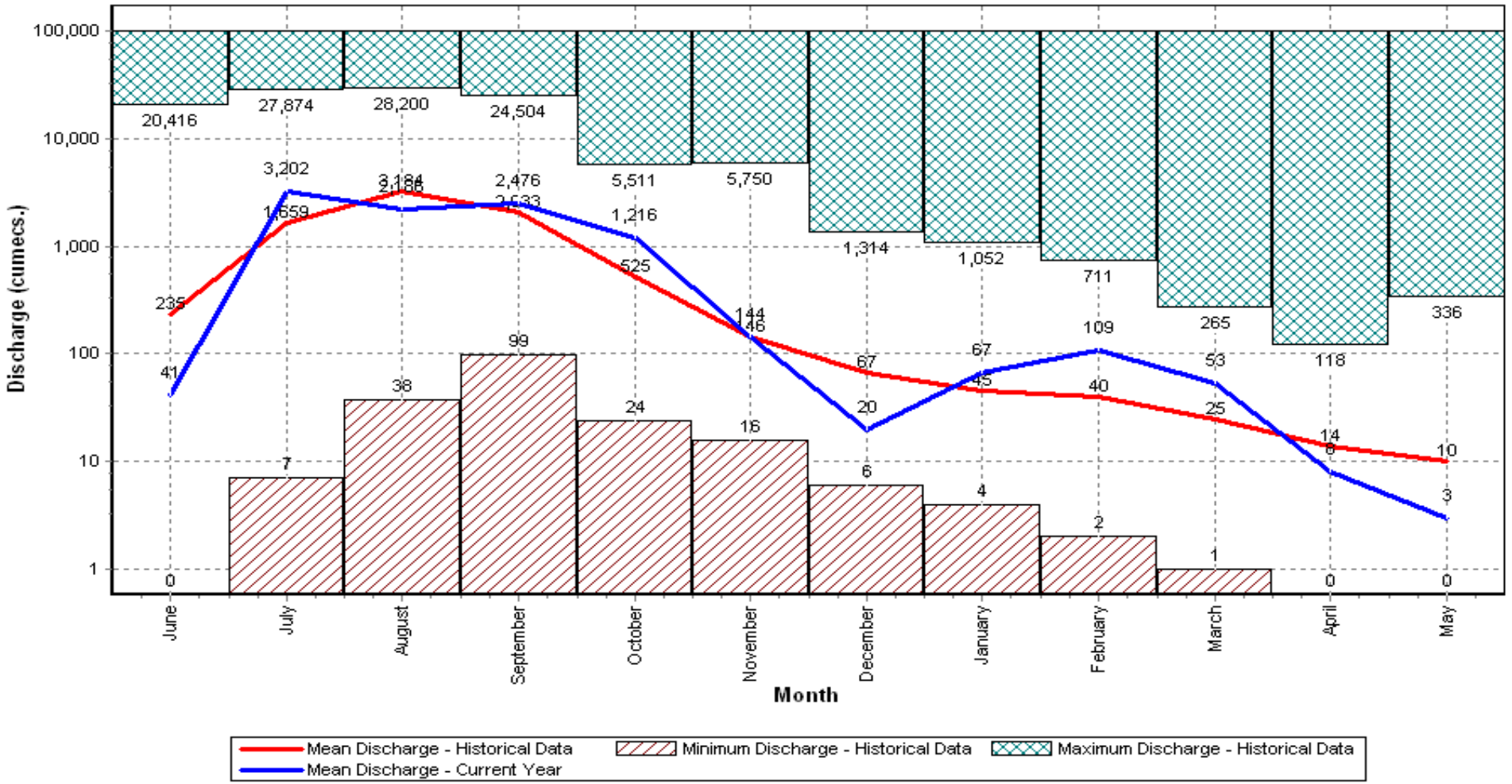
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : ASHTI (AGH40A4) | **Data considered : 1965-2017** | **Division : Wainganga Div., Nagpur**

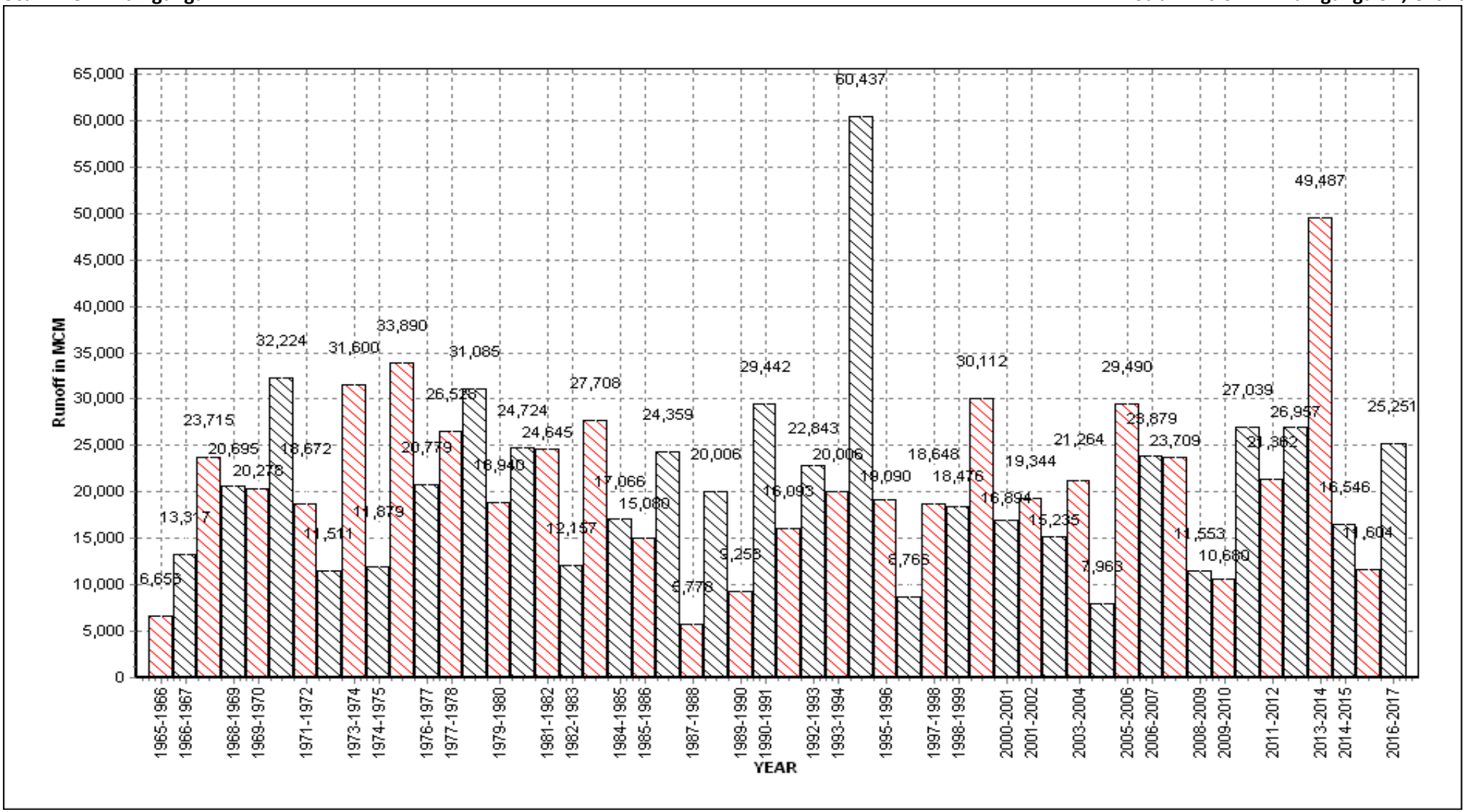
Local River : Wainganga | **Sub-Division : L Wainganga SD, Chandrapur**



Annual Runoff Values for the period: 1965 - 2017

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

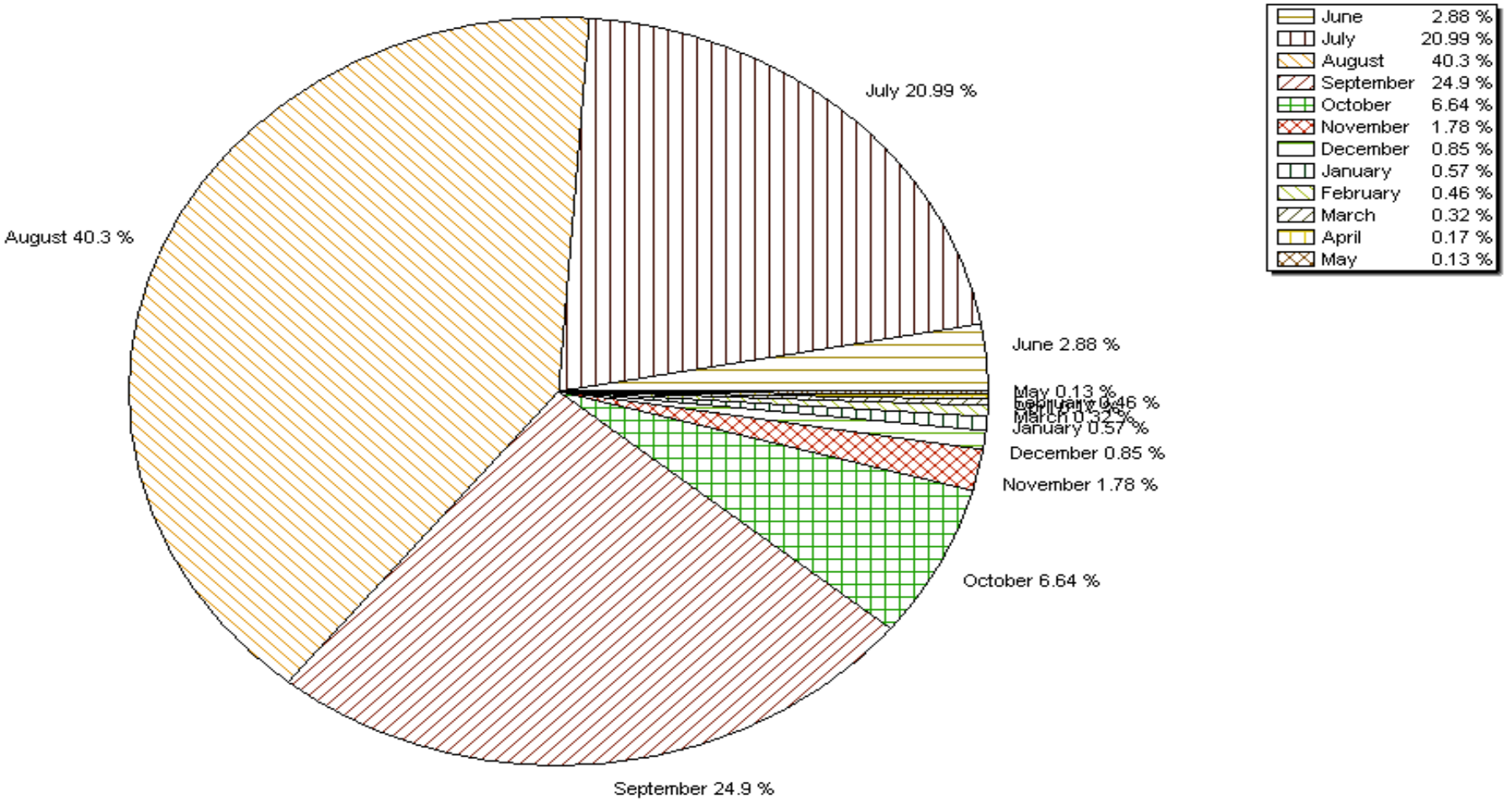


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1965-2016

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**



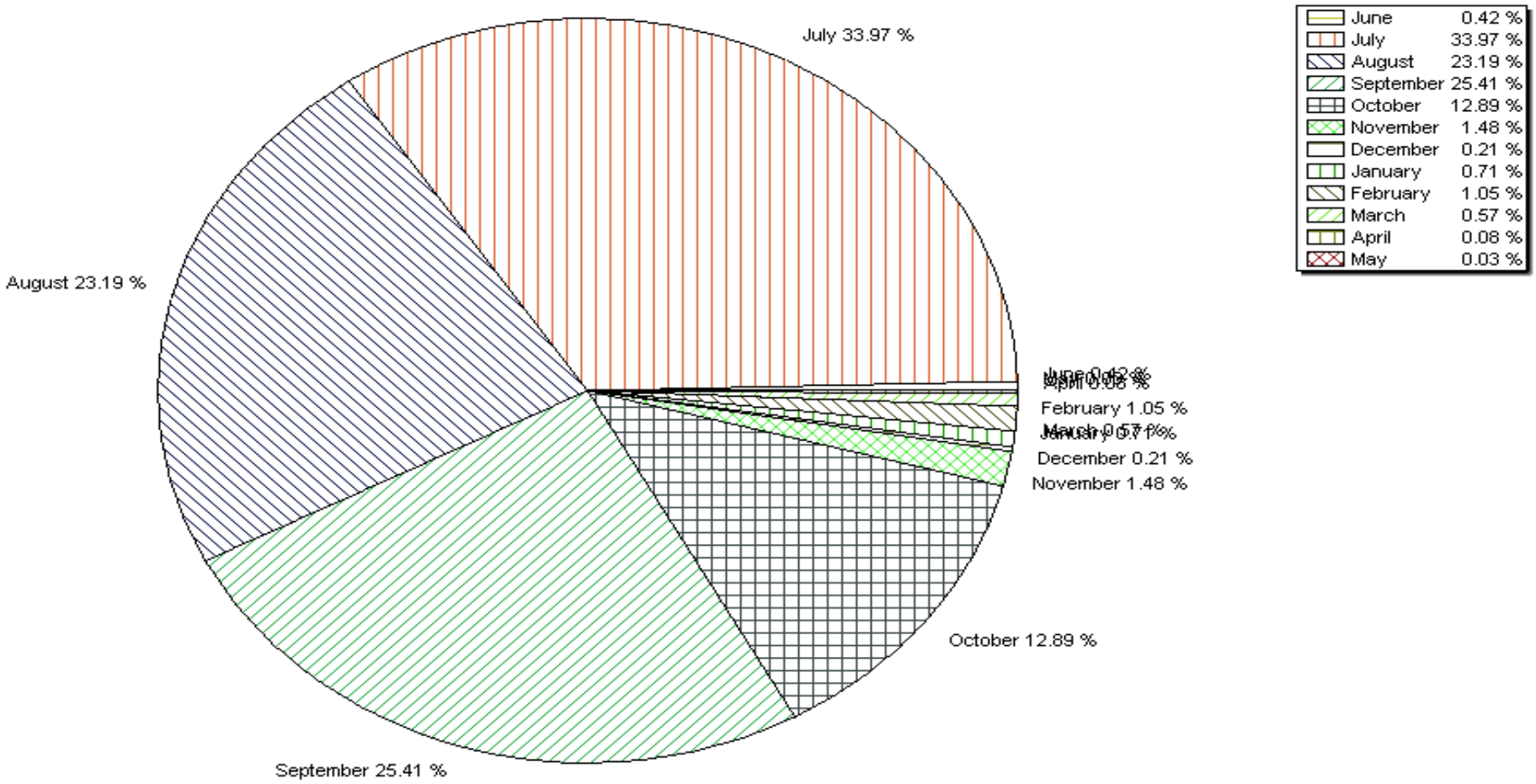
Monthly Runoff for the Year : 2016-2017

Station Name : ASHTI (AGH40A4)

Local River : Wainganga

Division : Wainganga Div., Nagpur

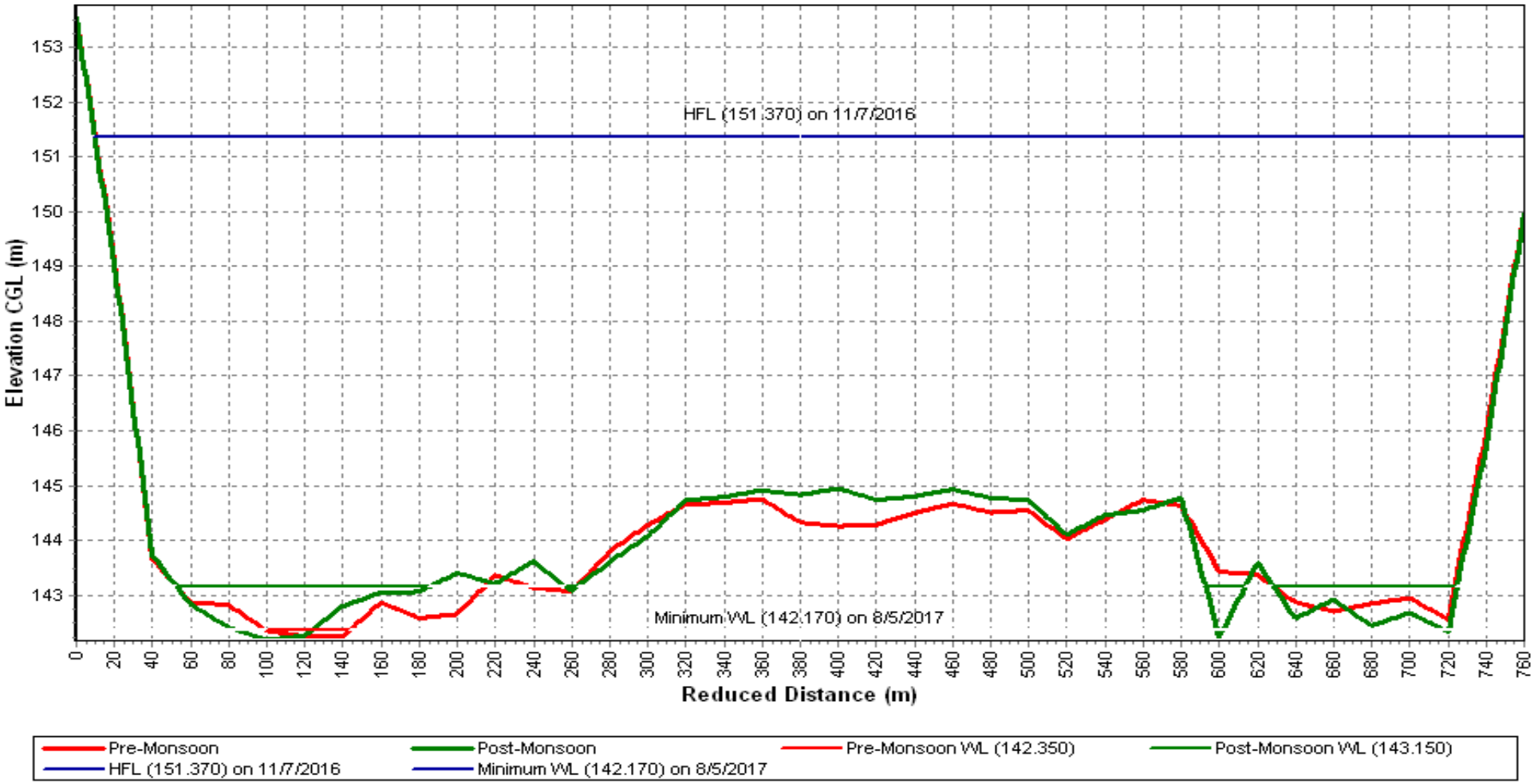
Sub-Division : L Wainganga SD, Chandrapur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

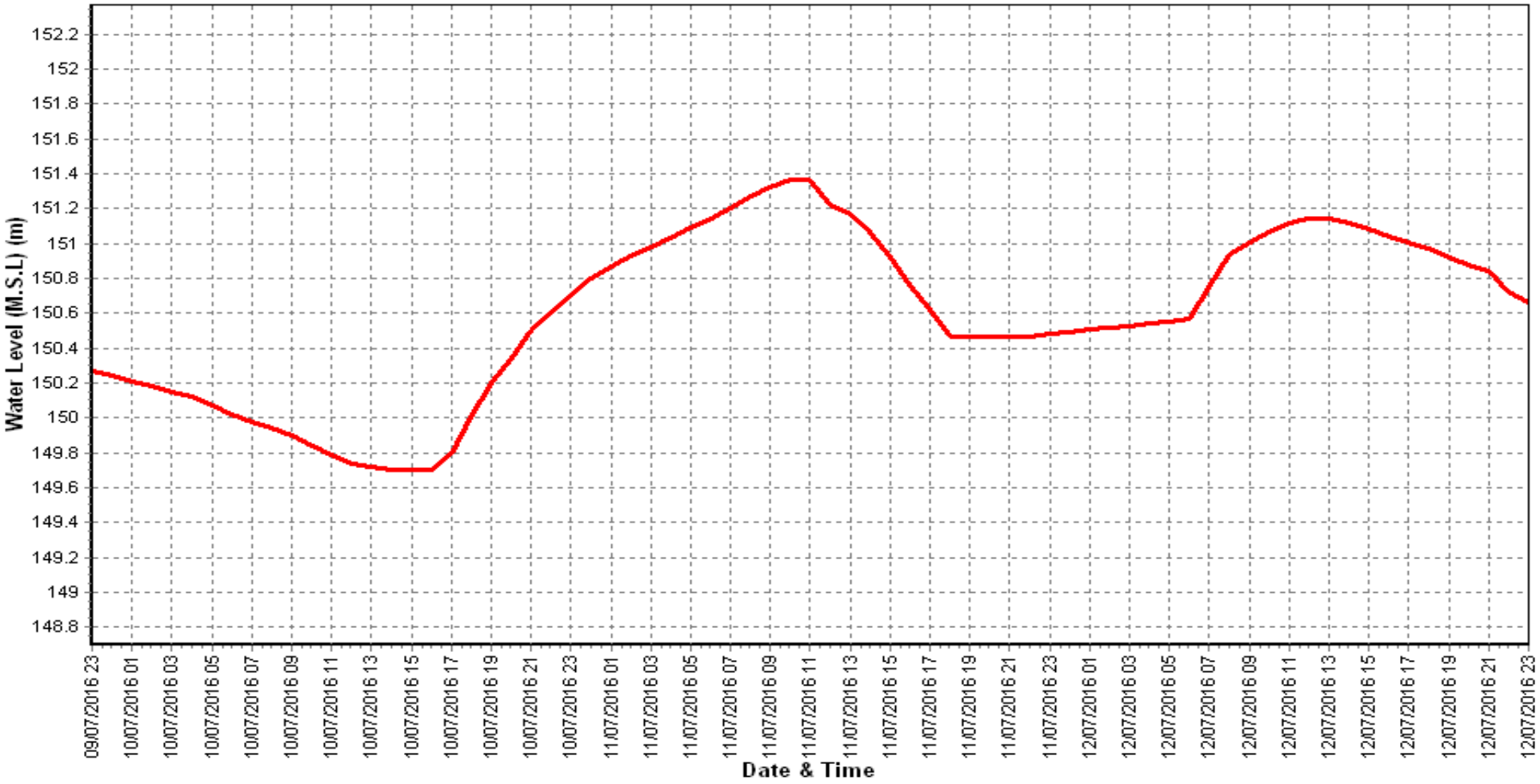
Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

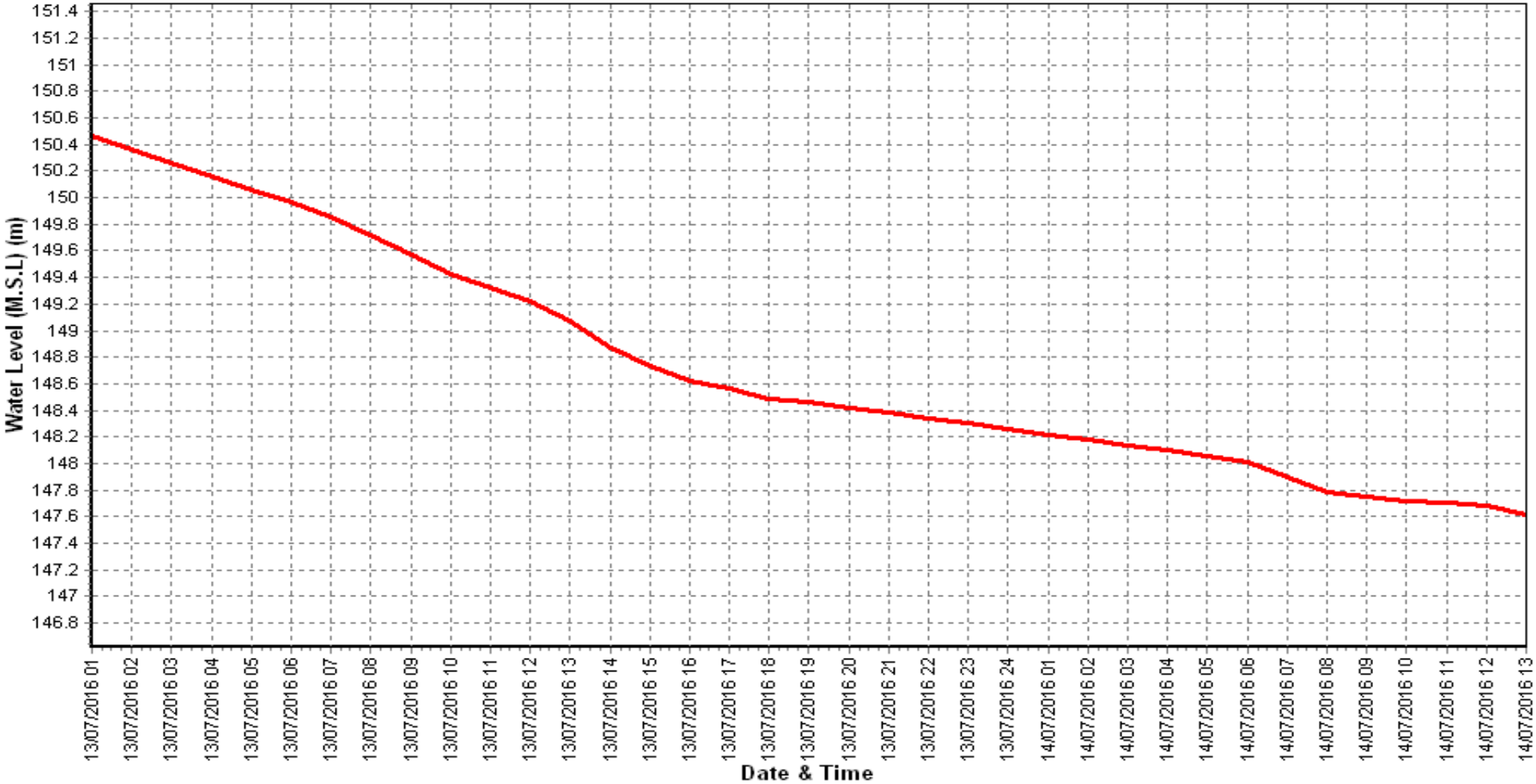


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**

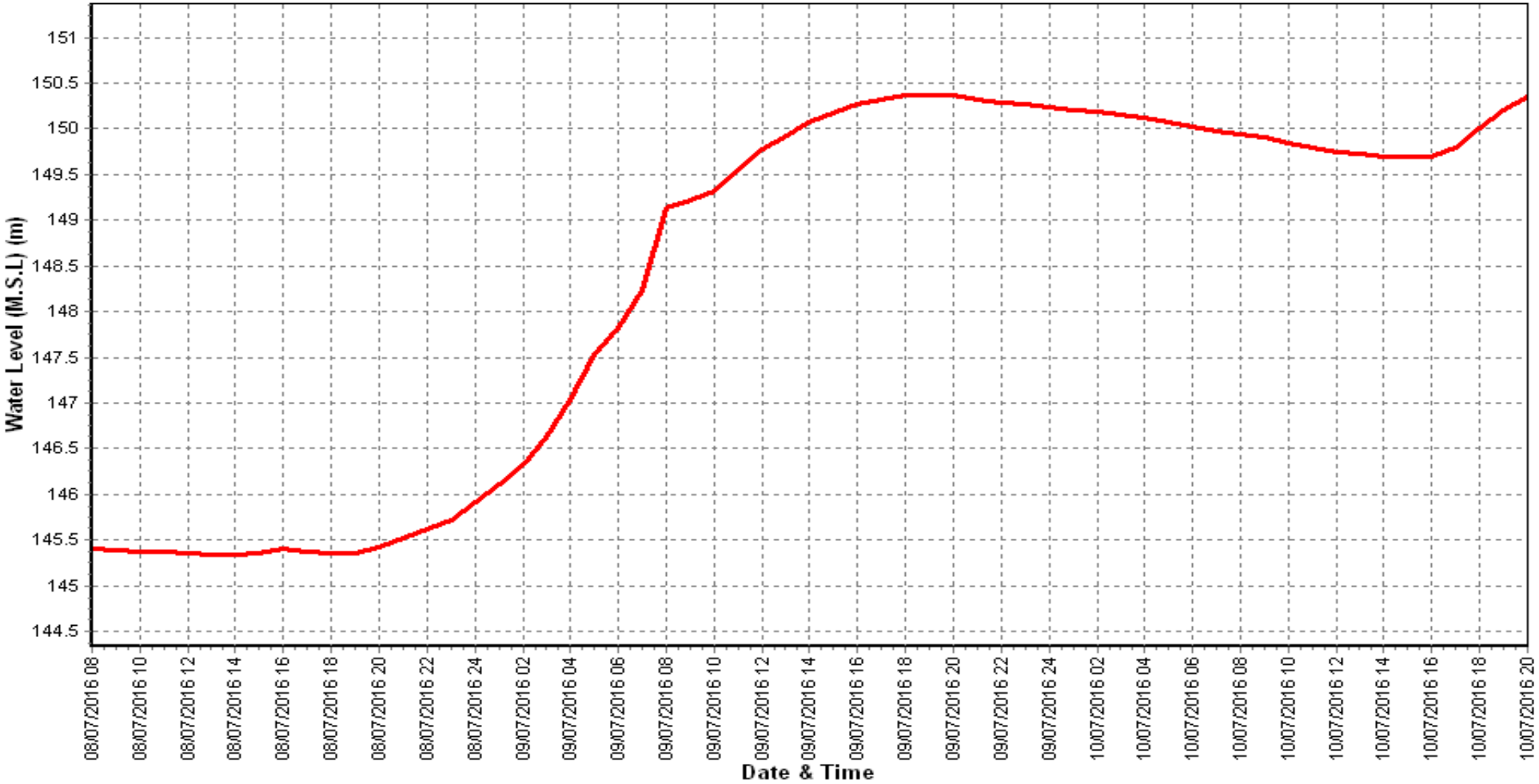


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : ASHTI (AGH40A4) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : L Wainganga SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: RAJOLI**		**Code**	**: AGH41Q4**	
State	: Maharashtra		District	Chandrapur	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: Andhari		Local River	: Mul	
Division	: Wainganga Div., Nagpur		Sub-Division	: Wardha SD, Chandrapur	
Drainage Area	: 1900 Sq. Km.		Bank	: Left	
Latitude	: 20°11'37"		Longitude	: 79°39'59"	
Zero of Gauge (m)	: 229 (m.s.l) 180.62 (m.s.l)		30.01.1985 01.06.1993	- 31.05.1993	
	Opening Date		Closing Date		
Gauge	: 30.01.1985				
Discharge	: 25.06.1986		**HFL During 2016-17**	**: 188.590 Meter**	
			Corres.Discharge	**: 1107.744 Cumecs(Estimated)**	
Sediment	:		**Date & Time of**	**: 10.07.2016**	
			Occurance	**: 03.00 Hrs.**	
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	1830	239.615	14.08.1986	0.000		19.06.1986
1987-1988	252.6	235.110	29.08.1987	0.000	231.805	04.02.1988
1988-1989	617.4	236.140	27.07.1988	0.000		22.03.1989
1989-1990	393.3	235.300	01.09.1989	0.000		30.03.1990
1990-1991	1226	238.840	23.08.1990	0.000		17.03.1991
1991-1992	963.0	237.638	17.08.1991	0.000		03.03.1992
1992-1993	1354	238.920	22.08.1992	0.000		07.03.1993
1993-1994	583.6	187.285	02.08.1993	0.000		01.04.1994
1994-1995	1538	191.195	31.08.1994	0.000	183.195	17.04.1995
1995-1996	696.7	187.390	02.09.1995	0.000		20.02.1996
1996-1997	292.3	186.003	21.08.1996	0.000		05.02.1997
1997-1998	644.2	187.610	23.08.1997	0.000		25.03.1998
1998-1999	200.8	185.655	14.09.1998	0.000		01.03.1999
1999-2000	1227	189.385	03.08.1999	0.000		12.02.2000
2000-2001	1570	191.400	19.07.2000	0.000		19.02.2001
2001-2002	1076	189.520	15.08.2001	0.000		22.02.2002
2002-2003	902.7	188.660	24.08.2002	0.000		10.03.2003
2003-2004	734.8	187.275	24.08.2003	0.000	0.000	08.03.2004
2004-2005	491.4	186.260	06.08.2004	0.000		25.12.2004
2005-2006	1100	189.200	06.08.2005	0.000		19.03.2006
2006-2007	704.6	187.300	06.08.2006	0.000		04.04.2007

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2007-2008	2394	190.800	01.07.2007	0.176	182.700	20.01.2008
2008-2009	515.1	186.995	30.07.2008	0.059	182.890	18.01.2009
2009-2010	116.9	184.495	23.07.2009	0.001	182.650	24.01.2010
2010-2011	1381	189.030	07.08.2010	0.000		19.04.2011
2011-2012	734.0	187.480	08.09.2011	0.000		06.04.2012
2012-2013	1598	189.910	20.08.2012	0.000		01.03.2013
2013-2014	1562	189.960	01.08.2013	0.000		27.02.2014
2014-2015	652.5	187.275	23.07.2014	0.000		10.04.2015
2015-2016	1400	188.920	14.08.2015	0.000	182.920	20.12.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	180.620	0.000	183.140	4.144 #	184.180	64.47	183.270	12.27	184.860	159.0	183.160	7.121
2	180.620	0.000	184.140	76.53	184.010	49.73	183.250	10.78	184.920	174.8 *	183.140	6.668
3	180.620	0.000	184.000	55.75 *	184.198	65.68	183.300	13.25	184.205	82.73	183.140	7.071
4	180.620	0.000	183.995	65.15	184.078	56.40	183.220	8.694 *	183.950	72.57	183.150	7.241
5	180.620	0.000	183.770	42.98	184.078	52.92	183.180	7.075 *	183.700	42.83 #	183.150	7.542
6	180.620	0.000	183.400	13.98 *	183.980	48.21	183.110	3.840	183.580	36.60	183.150	7.503 *
7	180.620	0.000	184.133	63.65	184.230	78.34 *	183.070	2.937	183.470	29.26	183.150	7.379
8	180.620	0.000	183.370	12.57 #	184.010	52.03	182.990	1.412 #	184.390	83.98	183.140	7.017
9	180.620	0.000	187.240	689.9	183.770	36.73 #	182.930	0.435 #	186.320	405.8 *	183.140	6.932
10	180.620	0.000	188.160	958.8 *	183.620	26.32 #	182.960	0.745	184.948	167.0	183.130	6.694
11	180.620	0.000	185.630	290.9	183.510	19.70 #	183.870	51.67 *	184.310	102.4 *	183.090	4.337
12	180.620	0.000	185.980	339.5	183.470	17.52 #	184.110	91.61	184.010	70.82 *	183.090	4.604
13	180.620	0.000	186.515	463.0	183.360	14.15	184.990	185.1 *	183.713	48.36	183.070	4.324 *
14	180.620	0.000	184.775	154.1	183.300	9.567 *	184.990	147.9	183.550	34.24	183.040	3.303 *
15	180.620	0.000	184.085	59.31	183.310	9.974 *	184.303	84.14	183.440	22.92	183.040	3.116
16	180.620	0.000	183.745	38.78	183.380	15.01	183.913	59.48	183.360	18.50 *	183.050	3.230
17	180.620	0.000	183.580	23.81 *	183.270	8.395 #	184.110	90.90	183.320	16.60	183.040	3.009
18	180.620	0.000	183.845	39.31	183.200	6.941	183.660	34.63 *	183.270	13.09	183.030	3.011
19	180.620	0.000	183.805	41.70	183.150	4.422 #	183.490	28.35	183.240	12.15	183.030	2.998
20	180.620	0.000	183.580	28.20	183.100	2.426	183.390	17.03 #	183.220	11.38	183.030	2.985 *
21	180.620	0.000	183.440	18.30	183.050	2.021 *	184.875	155.0	183.240	11.76	183.030	2.884
22	180.620	0.000	185.080	196.7	183.020	1.470 #	184.435	132.7	183.210	12.73	183.020	2.679 #
23	180.620	0.000	185.290	231.9	183.020	1.470 #	183.840	49.07 #	183.180	8.851 *	183.010	2.385 #
24	180.620	0.000	184.260	81.55 *	183.050	2.021 #	183.560	27.52 #	183.200	10.37	183.020	2.679 #
25	180.620	0.000	184.160	68.50	183.080	2.318	184.690	142.8 *	183.200	11.51	182.990	2.207
26	180.620	0.000	183.805	41.70	183.090	2.529	186.105	412.4	183.200	10.29	182.970	1.340 #
27	180.620	0.000	183.935	49.90	183.100	2.818	185.005	159.7	183.180	9.511	182.970	1.340 *
28	180.620	0.000	183.835	45.10	183.200	5.936 *	185.330	197.5	183.180	8.472	182.950	0.903 #
29	180.620	0.000	183.735	40.29	183.160	5.422	184.465	110.6	183.170	7.873	182.920	0.376 #
30	180.620	0.000	183.960	47.99	183.100	3.115 #	184.220	82.44	183.170	8.393 *	182.910	0.254 #
31			184.210	76.24 *	183.285	13.59			183.160	7.375		
Ten-Daily Mean												
I Ten-Daily	180.620	0.000	184.535	198.3	184.015	53.08	183.128	6.144	184.434	125.5	183.145	7.117
II Ten-Daily	180.620	0.000	184.554	147.9	183.305	10.81	184.082	79.08	183.543	35.05	183.051	3.492
III Ten-Daily	180.620	0.000	184.155	81.65	183.105	3.883	184.652	147.0	183.190	9.740	182.979	1.705
Monthly												
Min.	180.620	0.000	183.140	4.144	183.020	1.470	182.930	0.435	183.160	7.375	182.910	0.254
Max.	180.620	0.000	188.160	958.8	184.230	78.34	186.105	412.4	186.320	405.8	183.160	7.542
Mean	180.620	0.000	184.406	140.7	183.463	21.99	183.954	77.4	183.705	55.23	183.058	4.104

Annual Runoff in MCM = 797 Annual Runoff in mm = 419

Peak Observed Discharge = 689.9 cumecs on 09/07/2016 Corres. Water Level :187.24 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	182.910	1.136	182.710	0.221 *	183.030	0.000	180.620	0.000	180.620	0.000	180.620	0.000
2	182.910	1.380	182.710	0.229	183.000	0.000	180.620	0.000	180.620	0.000	180.620	0.000
3	182.910	1.254	182.730	0.311	182.970	0.000	180.620	0.000	180.620	0.000	180.620	0.000
4	182.900	1.336 *	182.720	0.310	182.930	0.000	180.620	0.000	180.620	0.000	180.620	0.000
5	182.880	1.076	182.720	0.304	182.910	0.000	180.620	0.000	180.620	0.000	180.620	0.000
6	182.880	1.038	182.710	0.269	182.860	0.000	180.620	0.000	180.620	0.000	180.620	0.000
7	182.870	0.968	182.710	0.266	182.820	0.000	180.620	0.000	180.620	0.000	180.620	0.000
8	182.870	0.891	182.690	0.154 *	182.790	0.000	180.620	0.000	180.620	0.000	180.620	0.000
9	182.860	0.871	182.690	0.129	182.820	0.000	180.620	0.000	180.620	0.000	180.620	0.000
10	182.850	0.801	182.680	0.113	182.820	0.000	180.620	0.000	180.620	0.000	180.620	0.000
11	182.850	0.964 *	182.680	0.128	182.750	0.000	180.620	0.000	180.620	0.000	180.620	0.000
12	182.840	0.896 *	182.680	0.129	182.720	0.000	180.620	0.000	180.620	0.000	180.620	0.000
13	182.820	0.825	182.670	0.083	182.700	0.000	180.620	0.000	180.620	0.000	180.620	0.000
14	182.800	0.752	182.670	0.078	182.690	0.000	180.620	0.000	180.620	0.000	180.620	0.000
15	182.790	0.663	182.670	0.098 *	182.680	0.000	180.620	0.000	180.620	0.000	180.620	0.000
16	182.790	0.643	182.680	0.097	182.680	0.000	180.620	0.000	180.620	0.000	180.620	0.000
17	182.790	0.658	182.680	0.098	182.670	0.000	180.620	0.000	180.620	0.000	180.620	0.000
18	182.790	0.589 *	182.670	0.078	182.660	0.000	180.620	0.000	180.620	0.000	180.620	0.000
19	182.770	0.488	182.680	0.125 #	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
20	182.770	0.497	182.690	0.154 #	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
21	182.750	0.439	182.940	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
22	182.750	0.424	183.020	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
23	182.750	0.454	183.060	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
24	182.750	0.435	183.070	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
25	182.750	0.386 *	183.100	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
26	182.740	0.413	183.090	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
27	182.740	0.395	183.090	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
28	182.740	0.416	183.090	0.000	180.620	0.000 *	180.620	0.000	180.620	0.000	180.620	0.000
29	182.740	0.373	183.080	0.000			180.620	0.000	180.620	0.000	180.620	0.000
30	182.730	0.349	183.070	0.000			180.620	0.000	180.620	0.000	180.620	0.000
31	182.730	0.298	183.040	0.000			180.620	0.000			180.620	0.000
Ten-Daily Mean												
I Ten-Daily	182.884	1.075	182.707	0.231	182.895	0.000	180.620	0.000	180.620	0.000	180.620	0.000
II Ten-Daily	182.801	0.697	182.677	0.107	182.694	0.000	180.620	0.000	180.620	0.000	180.620	0.000
III Ten-Daily	182.743	0.398	183.059	0.000	180.620	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Monthly												
Min.	182.730	0.298	182.670	0.000	182.660	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Max.	182.910	1.380	183.100	0.311	183.030	0.000	180.620	0.000	180.620	0.000	180.620	0.000
Mean	182.807	0.713	182.822	0.109	182.806	0.000	180.620	0.000	180.620	0.000	180.620	0.000

Peak Computed Discharge = 958.8 cumecs on 10/07/2016 Corres. Water Level :188.16 m

Lowest Computed Discharge = 0.000 cumecs on 19/02/2017

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

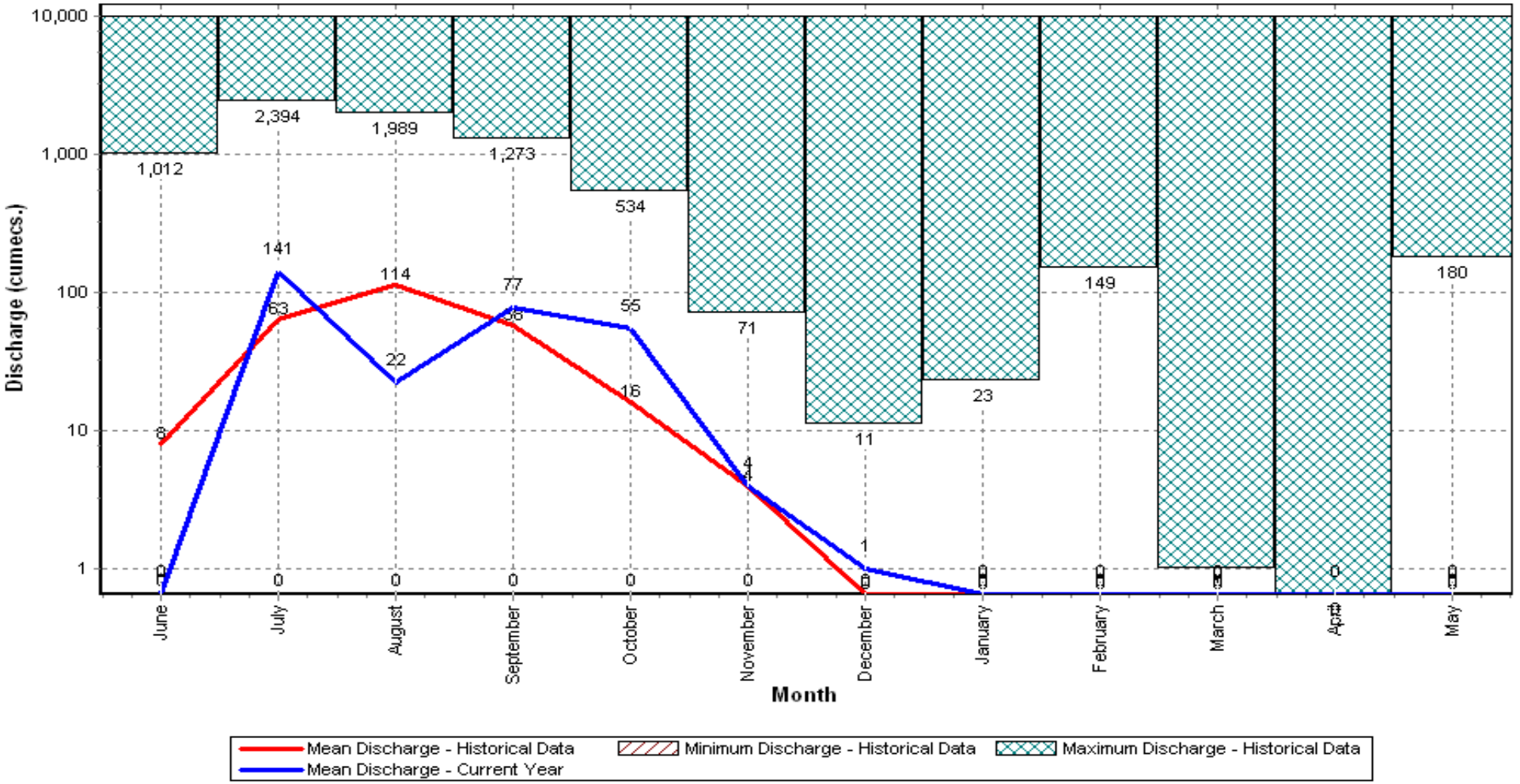
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : RAJOLI (AGH41Q4) | **Data considered : 1986-2017** | **Division : Wainganga Div., Nagpur**

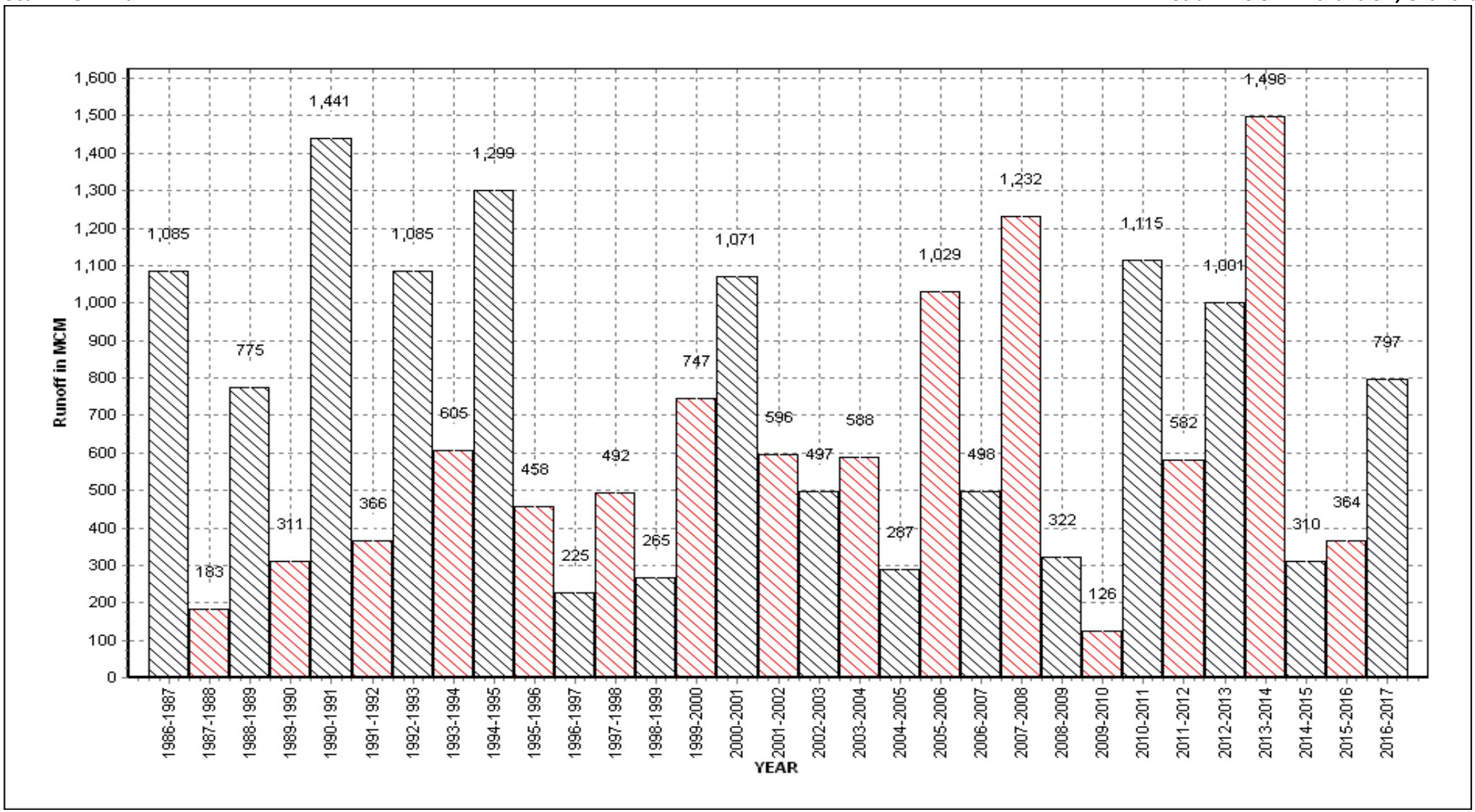
Local River : Mul | **Sub-Division : Wardha SD, Chandrapur**



Annual Runoff Values for the period: 1986 - 2017

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**



Note: Missing values have not been considered while arriving at Annual Runoff

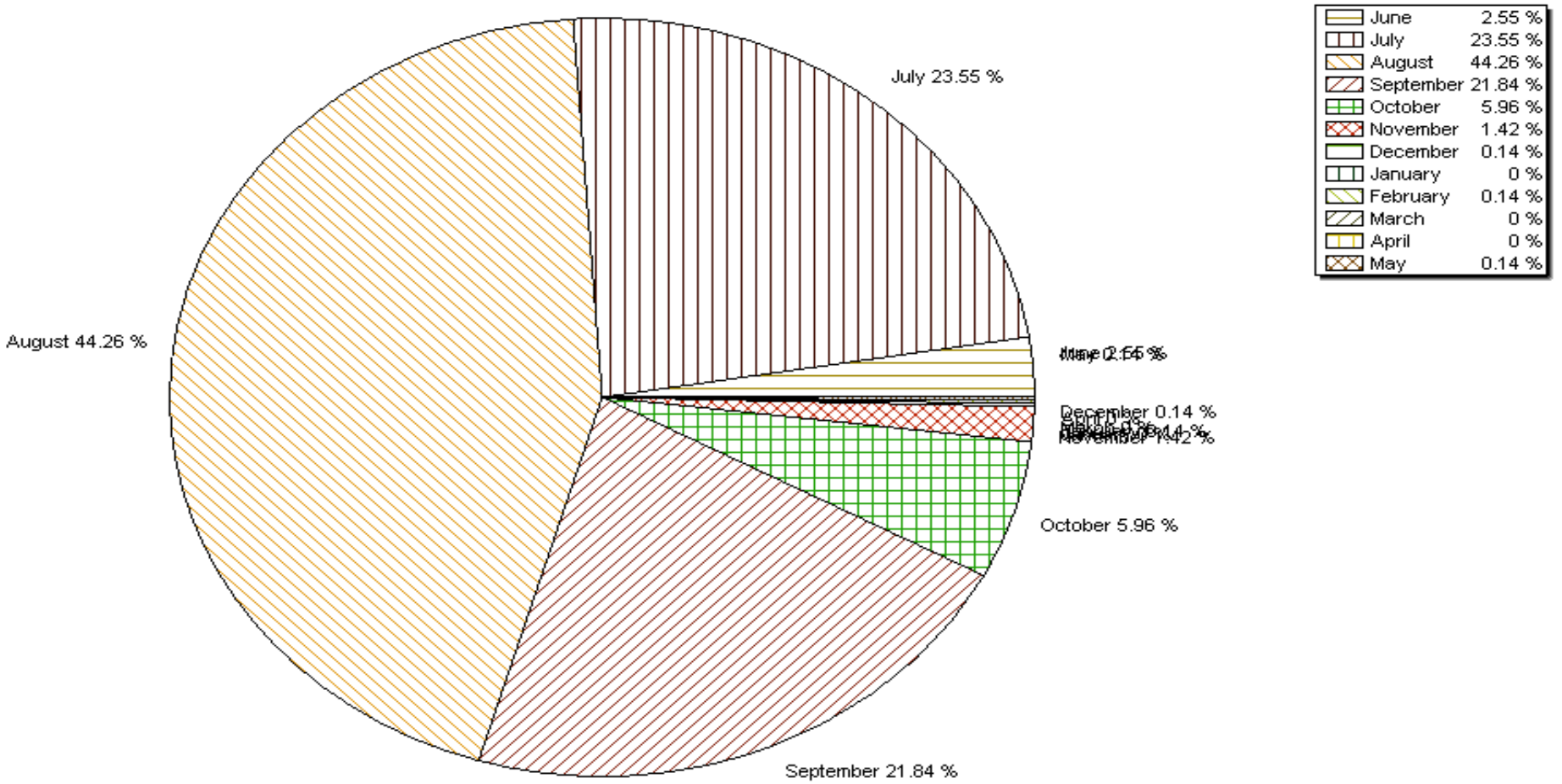
Monthly Average Runoff based on period : 1986-2016

Station Name : RAJOLI (AGH41Q4)

Local River : Mul

Division : Wainganga Div., Nagpur

Sub-Division : Wardha SD, Chandrapur



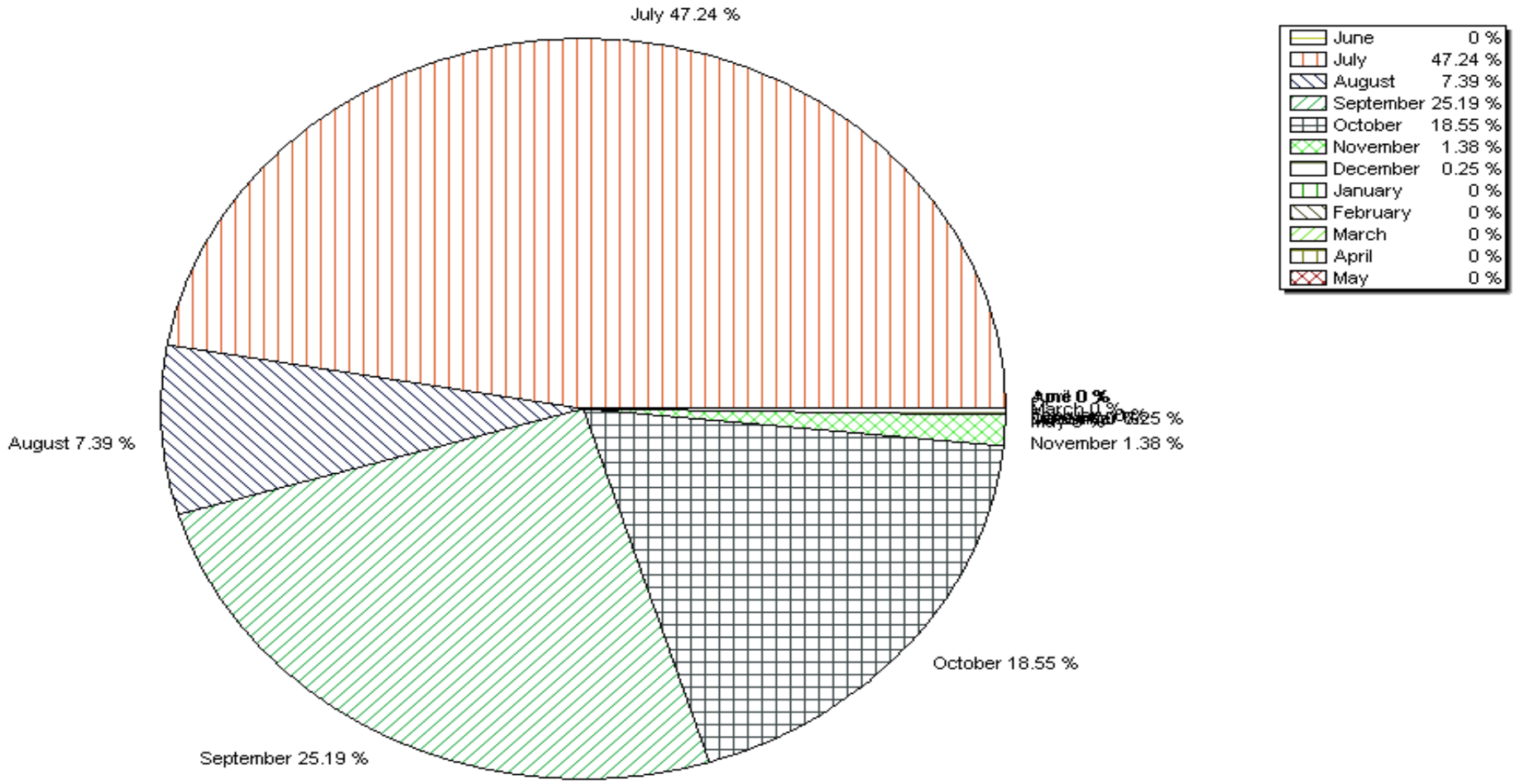
Monthly Runoff for the Year : 2016-2017

Station Name : RAJOLI (AGH41Q4)

Local River : Mul

Division : Wainganga Div., Nagpur

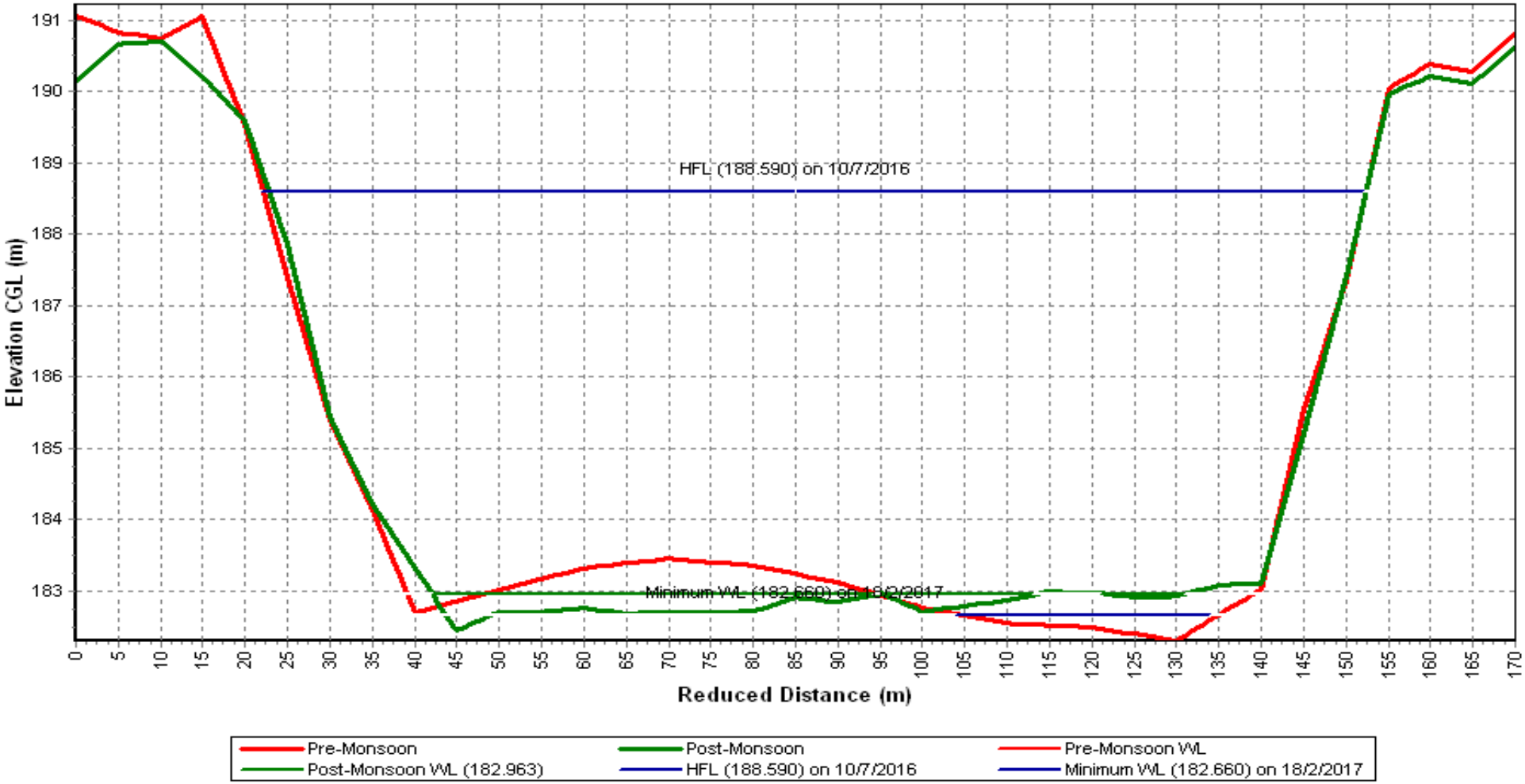
Sub-Division : Wardha SD, Chandrapur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

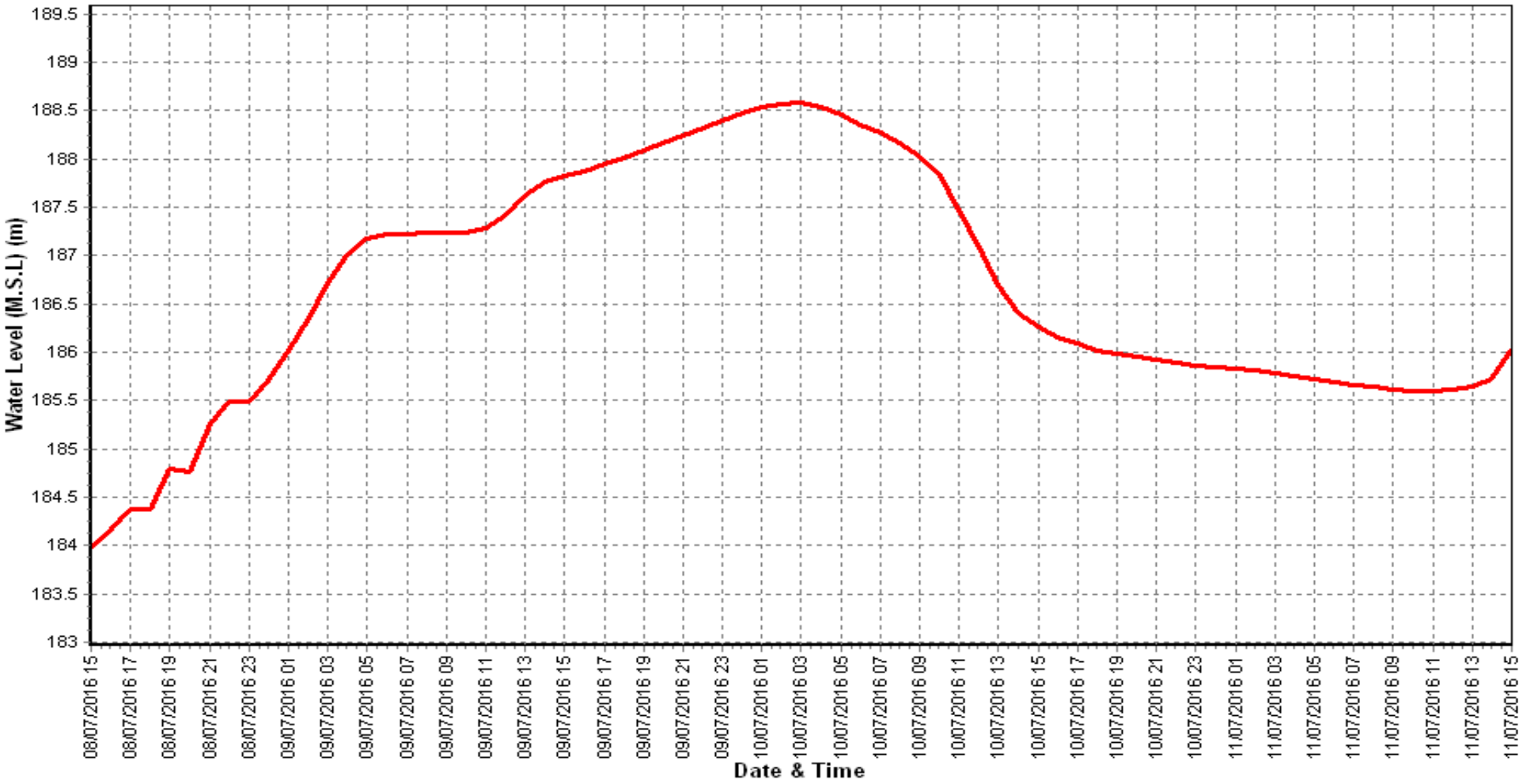
Local River : Mul **Sub-Division : Wardha SD, Chandrapur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

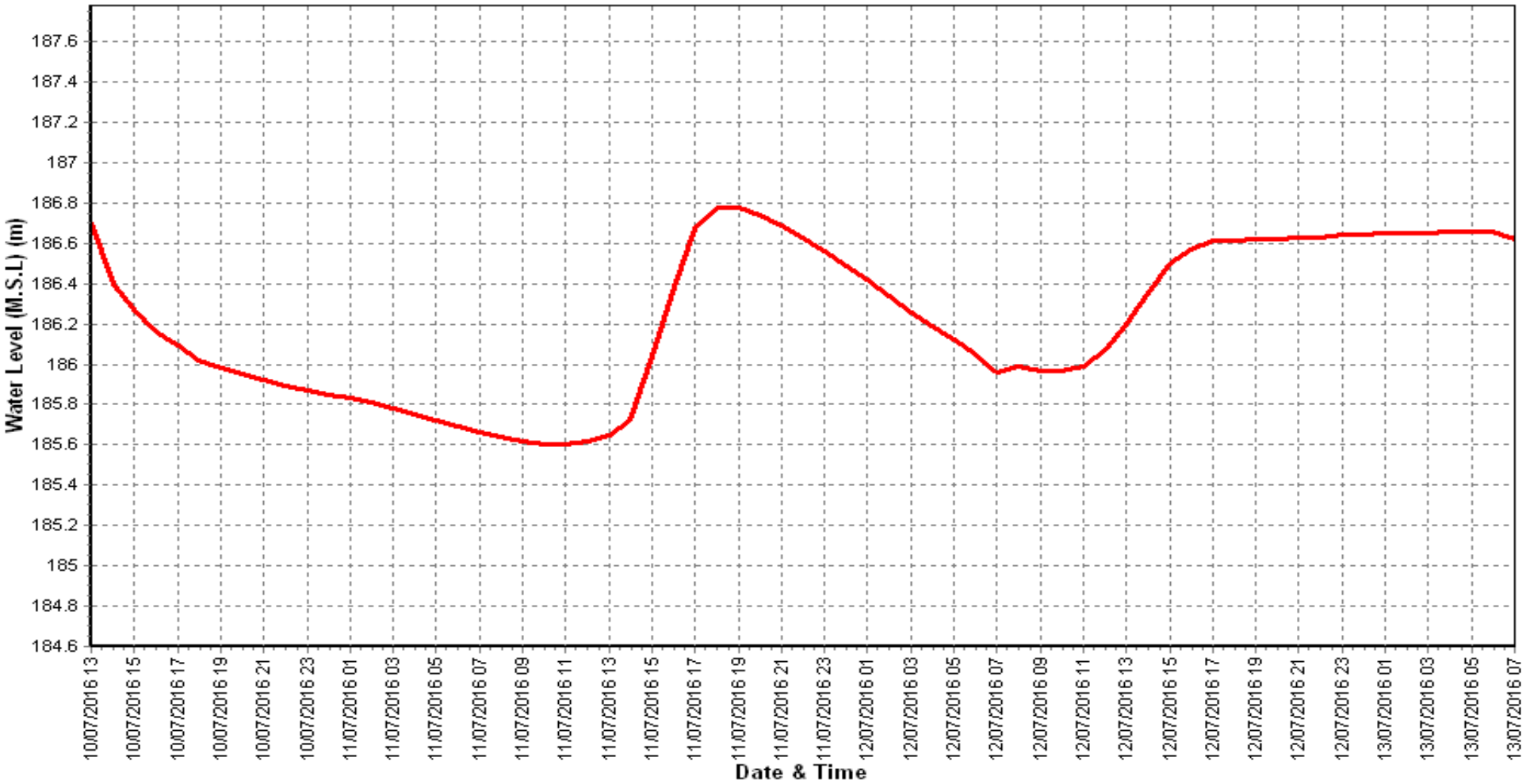


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**

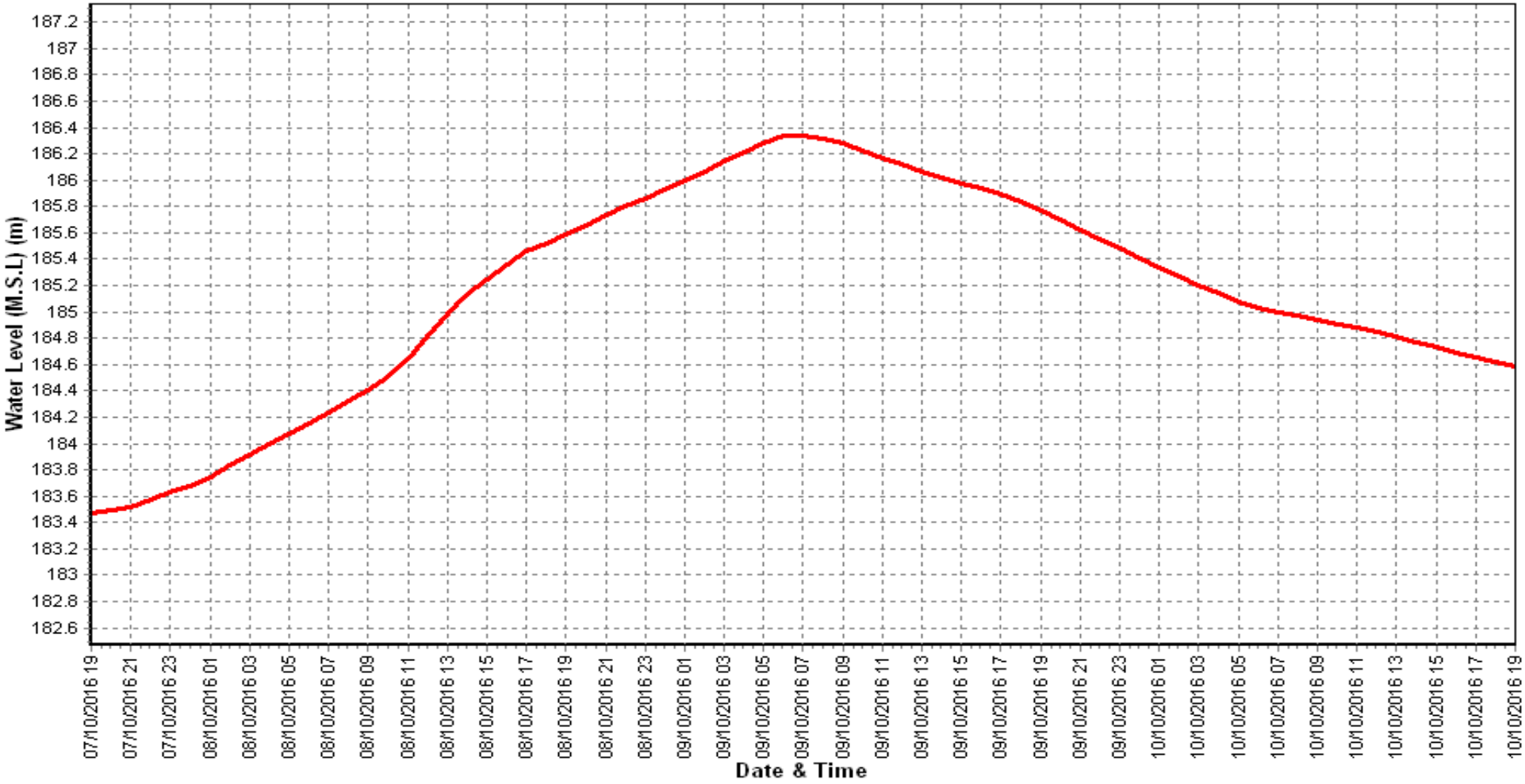


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : RAJOLI (AGH41Q4) **Division : Wainganga Div., Nagpur**

Local River : Mul **Sub-Division : Wardha SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2016-2017**
Site	:	**WAIRAGARH**	**Code**	:	**AGH46D4**
State	:	Maharashtra	District		Gadchiroli
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	Khobragarhi	Local River	:	Khobragarhi
Division	:	Wainganga Div., Nagpur	Sub-Division	:	L Wainganga SD, Chandrapur
Drainage Area	:	2600 Sq. Km.	Bank	:	Right
Latitude	:	20°25'19"	Longitude	:	80°05'30"
Zero of Gauge (m)	:	95 (m.s.l) 208.705 (m.s.l)	18.07.1992 01.06.1996	-	31.05.1996
		Opening Date	Closing Date		
Gauge	:	18.07.1992			
Discharge	:	07.08.1992	**HFL During 2016-17**	:	**214.705 Meter**
			Corres.Discharge	:	**1255.187 Cumecs(Estimated)**
Sediment	:		**Date & Time of**	:	**11.09.2016**
			Occurance	:	**24.00 Hrs.**
Water Quality	:	01.10.2014			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1993-1994	485.5	97.480	04.08.1993	0.000		20.02.1994
1994-1995	1405	100.750	11.07.1994	0.000		07.04.1995
1995-1996	766.8	98.600	02.09.1995	0.000		29.02.1996
1996-1997	455.0	213.435	02.08.1996	0.000		09.02.1997
1997-1998	418.1	213.000	12.09.1997	0.000	210.315	04.04.1998
1998-1999	363.7	212.740	13.09.1998	0.000		19.02.1999
1999-2000	299.2	212.505	09.08.1999	0.000		28.02.2000
2000-2001	1736	214.605	18.07.2000	0.000		06.02.2001
2001-2002	1543	213.955	14.06.2001	0.000		10.02.2002
2002-2003	960.0	213.275	24.08.2002	0.000	210.345	12.02.2003
2003-2004	659.7	212.880	03.08.2003	0.000	209.995	02.04.2004
2004-2005	1002	213.535	22.08.2004	0.000		06.03.2005
2005-2006	985.0	214.005	06.08.2005	0.000		11.03.2006
2006-2007	1124	214.235	31.08.2006	0.000		01.03.2007
2007-2008	2732	215.905	07.08.2007	0.002	210.725	17.01.2008
2008-2009	1011	214.305	01.08.2008	0.009	210.715	14.12.2008
2009-2010	565.5	213.355	16.07.2009	0.011	210.885	10.01.2010
2010-2011	933.6	214.065	07.08.2010	0.000		01.03.2011
2011-2012	1330	214.455	07.09.2011	0.000		01.02.2012
2012-2013	2104	215.005	05.09.2012	0.000		26.04.2013
2013-2014	2351	215.105	23.07.2013	0.000		12.04.2014
2014-2015	1144	214.095	23.07.2014	0.000	208.705	07.04.2015
2015-2016	252.5	212.535	18.09.2015	0.000	210.905	19.06.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	208.705	0.000	210.905	5.160 #	211.530	45.53	212.205	144.7	212.825	307.2 *	211.145	9.342
2	208.705	0.000	211.125	13.67 #	211.555	52.77	211.920	84.12	212.175	135.5 *	211.135	9.016
3	208.705	0.000	211.795	69.71 *	211.880	90.49	211.930	86.12	212.565	207.8	211.115	8.706
4	208.705	0.000	211.605	37.50	211.570	54.55	211.745	62.13 *	212.070	116.2	211.105	7.144
5	208.705	0.000	211.565	45.05 #	211.643	45.33	211.735	60.79 *	211.850	77.74	211.105	7.044
6	208.705	0.000	211.365	28.30 *	212.258	151.0	211.580	42.35	211.755	61.56	211.095	6.362 *
7	208.705	0.000	211.420	26.93	212.405	164.9 *	211.460	35.65	211.685	52.88	211.085	6.164
8	208.705	0.000	211.255	23.54	212.108	124.4	211.385	27.52	212.415	218.0	211.085	5.670
9	208.705	0.000	213.045	314.4 *	211.895	80.22	211.335	25.28	213.135	416.1 *	211.075	5.439
10	208.705	0.000	212.625	210.4 *	211.770	58.01	211.305	17.60 #	212.865	320.2 *	211.065	5.023
11	208.705	0.000	212.225	132.2 #	211.635	48.01	213.055	386.3 *	211.995	101.1 *	211.065	4.877
12	208.705	0.000	213.175	351.3 *	211.615	49.29	214.295	988.3 *	211.805	70.55 *	211.055	4.794
13	208.705	0.000	213.015	306.2 *	211.605	47.17	213.535	583.6 *	211.700	59.28	211.055	4.897 *
14	208.705	0.000	211.975	95.80	211.875	79.69 *	212.520	209.4	211.625	47.93	211.045	4.562 *
15	208.705	0.000	211.670	49.76	211.905	83.62 *	212.188	114.8	211.575	41.59	211.045	4.927
16	208.705	0.000	211.505	41.29	211.865	78.37	212.010	90.12	211.525	36.17 *	211.035	4.491
17	208.705	0.000	211.415	32.09 *	211.645	52.20	211.990	88.21	211.465	34.27	211.035	3.761
18	208.705	0.000	211.450	35.25	211.530	39.80	211.855	78.00 *	211.435	30.17	211.025	3.430
19	208.705	0.000	211.850	73.83	211.420	30.37	211.765	65.02	211.395	25.40	211.005	3.792
20	208.705	0.000	211.510	39.66	211.345	28.45	211.695	52.46	211.375	22.80	211.005	3.354 *
21	208.705	0.000	211.375	29.29	211.295	23.43 *	211.720	56.46	211.345	22.23	210.995	3.179
22	208.705	0.000	211.975	111.8	211.245	19.09	211.680	51.38	211.325	21.29	210.985	3.135
23	208.705	0.000	211.688	54.33	211.225	18.12	211.575	39.42	211.305	17.60 *	210.985	3.093
24	208.705	0.000	211.575	46.00 *	211.215	17.85	211.515	32.06	211.285	17.39	210.985	2.479
25	208.705	0.000	211.550	46.80	211.160	14.64	212.035	108.3 *	211.255	17.36	210.985	2.824 #
26	208.705	0.000	211.405	31.82	212.685	263.8 *	212.315	175.7	211.245	16.68	210.975	2.012
27	208.705	0.000	211.365	32.63	212.350	166.5	212.565	250.8	211.225	13.84	210.975	2.578 *
28	208.705	0.000	211.285	27.44	212.455	200.3 *	212.250	151.3	211.205	13.03	210.965	2.418
29	208.705	0.000	211.215	20.67	211.810	62.14	212.295	178.3	211.185	11.82	210.955	2.282
30	208.705	0.000	211.195	19.99	211.585	43.62	212.275	161.1	211.175	9.928 *	210.955	2.066
31			211.425	32.88 *	213.505	570.0 *			211.155	9.855		
Ten-Daily Mean												
I Ten-Daily	208.705	0.000	211.671	77.46	211.861	86.72	211.660	58.62	212.334	191.3	211.101	6.991
II Ten-Daily	208.705	0.000	211.979	115.7	211.644	53.69	212.491	265.6	211.590	46.92	211.037	4.289
III Ten-Daily	208.705	0.000	211.459	41.24	211.866	127.2	212.023	120.5	211.246	15.55	210.976	2.607
Monthly												
Min.	208.705	0.000	210.905	5.160	211.160	14.64	211.305	17.60	211.155	9.855	210.955	2.012
Max.	208.705	0.000	213.175	351.3	213.505	570.0	214.295	988.3	213.135	416.1	211.145	9.342
Mean	208.705	0.000	211.695	76.96	211.793	90.44	212.058	148.2	211.708	82.37	211.038	4.629

Annual Runoff in MCM = 1068 Annual Runoff in mm = 411

Peak Observed Discharge = 250.8 cumecs on 27/09/2016 Corres. Water Level :212.565 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	210.945	1.967	210.775	0.118 *	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
2	210.945	1.898	210.775	0.118 #	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
3	210.945	1.898	210.775	0.141	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
4	210.935	1.506 *	210.765	0.102 #	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
5	210.935	1.833	210.765	0.102 #	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
6	210.935	1.801	210.765	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
7	210.935	1.319	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
8	210.925	1.243	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
9	210.925	1.179	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
10	210.915	1.104	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
11	210.915	1.228 *	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
12	210.915	1.228 *	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
13	210.905	1.106	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
14	210.905	1.078	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
15	210.895	1.016	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
16	210.890	1.084	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
17	210.880	0.924	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
18	210.880	0.821 *	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
19	210.875	0.896	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
20	210.875	0.829	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
21	210.835	0.284	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
22	210.835	0.265	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
23	210.825	0.249	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
24	210.825	0.239	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
25	210.815	0.194 *	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
26	210.815	0.182	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
27	210.815	0.174	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
28	210.815	0.174	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
29	210.805	0.174 #	208.705	0.000			208.705	0.000	208.705	0.000	208.705	0.000
30	210.795	0.154 #	208.705	0.000			208.705	0.000	208.705	0.000	208.705	0.000
31	210.785	0.136 #	208.705	0.000			208.705	0.000			208.705	0.000
Ten-Daily Mean												
I Ten-Daily	210.934	1.575	210.770	0.058	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
II Ten-Daily	210.894	1.021	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
III Ten-Daily	210.815	0.202	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Monthly												
Min.	210.785	0.136	210.765	0.000	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Max.	210.945	1.967	210.775	0.141	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000
Mean	210.879	0.909	210.770	0.019	208.705	0.000	208.705	0.000	208.705	0.000	208.705	0.000

Peak Computed Discharge = 988.3 cumecs on 12/09/2016 Corres. Water Level :214.295 m

Lowest Computed Discharge = 0.118 cumecs on 01/01/2017 Corres. Water Level :210.775 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

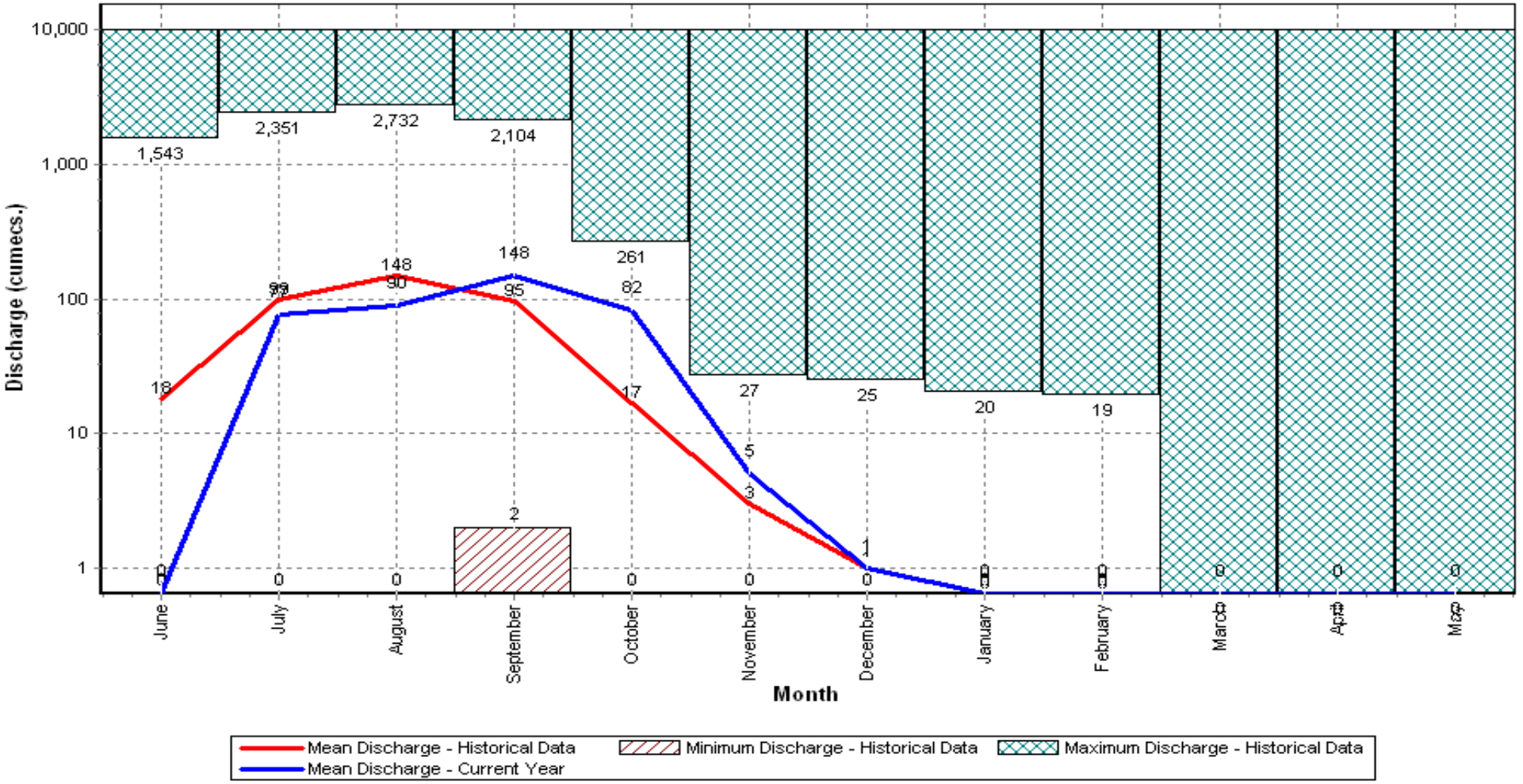
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : WAIRAGARH (AGH46D4) | **Data considered : 1993-2017** | **Division : Wainganga Div., Nagpur**

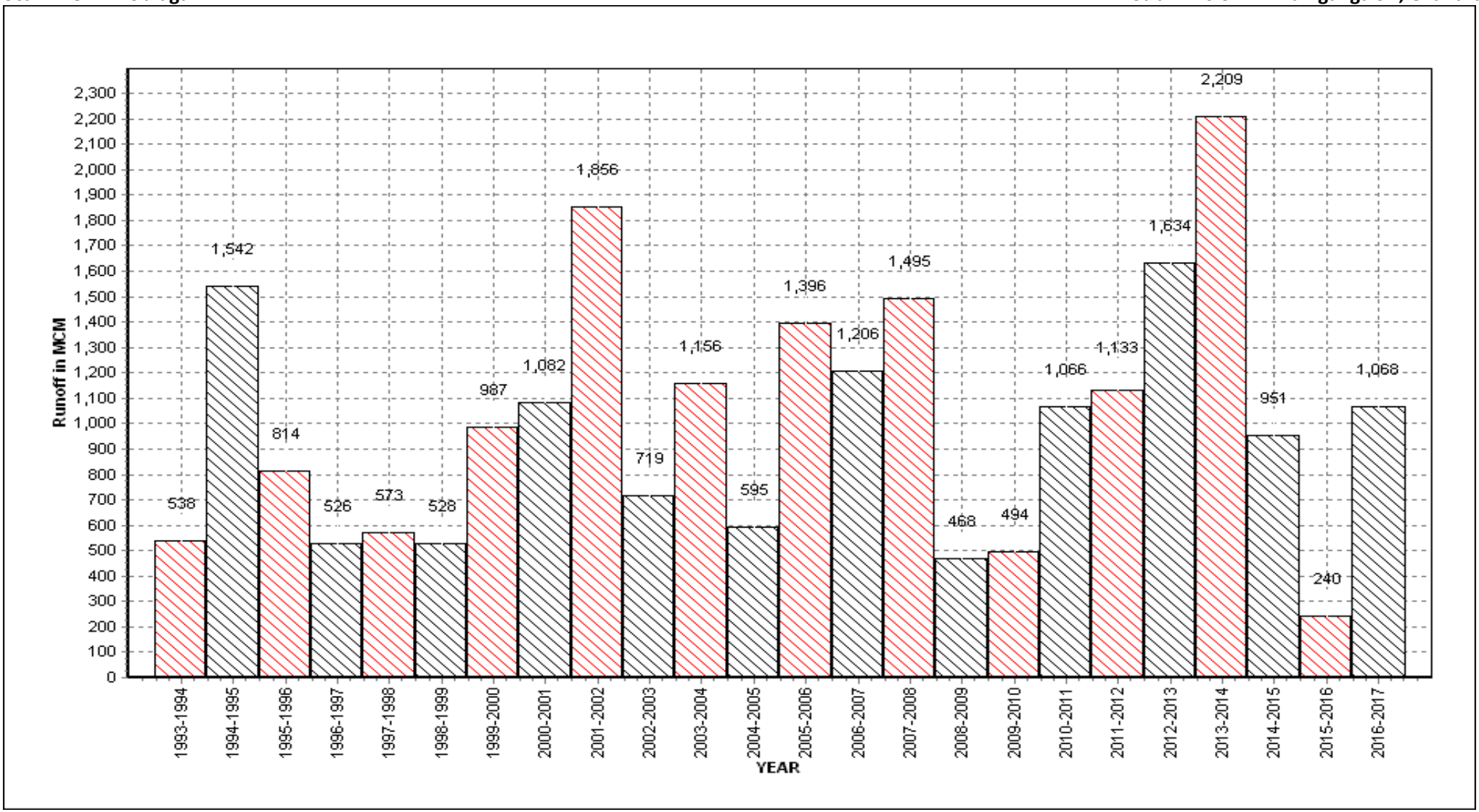
Local River : Khobragarhi | **Sub-Division : L Wainganga SD, Chandrapur**



Annual Runoff Values for the period: 1993 - 2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



Note: Missing values have not been considered while arriving at Annual Runoff

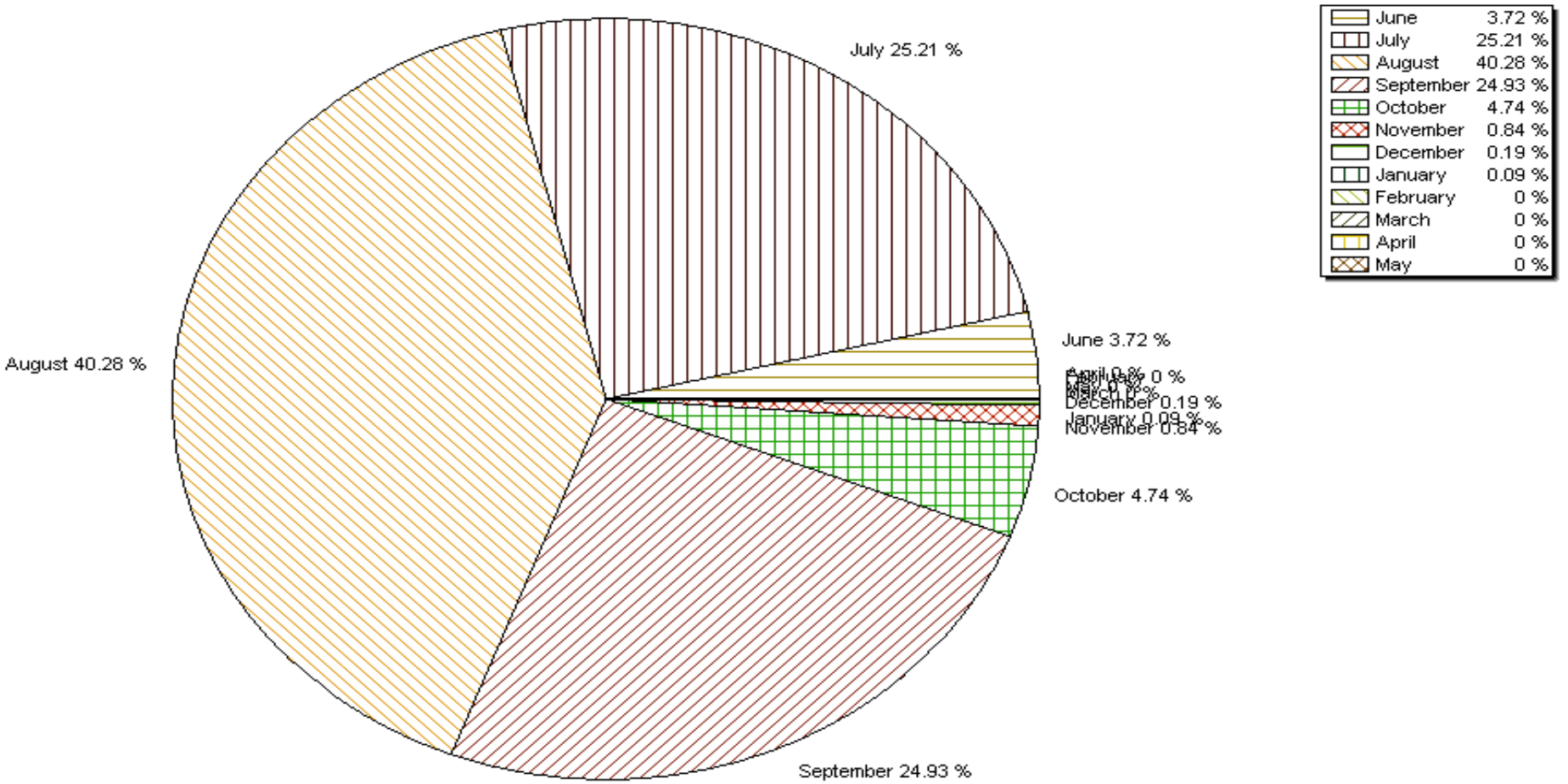
Monthly Average Runoff based on period : 1993-2016

Station Name : WAIRAGARH (AGH46D4)

Local River : Khobragarhi

Division : Wainganga Div., Nagpur

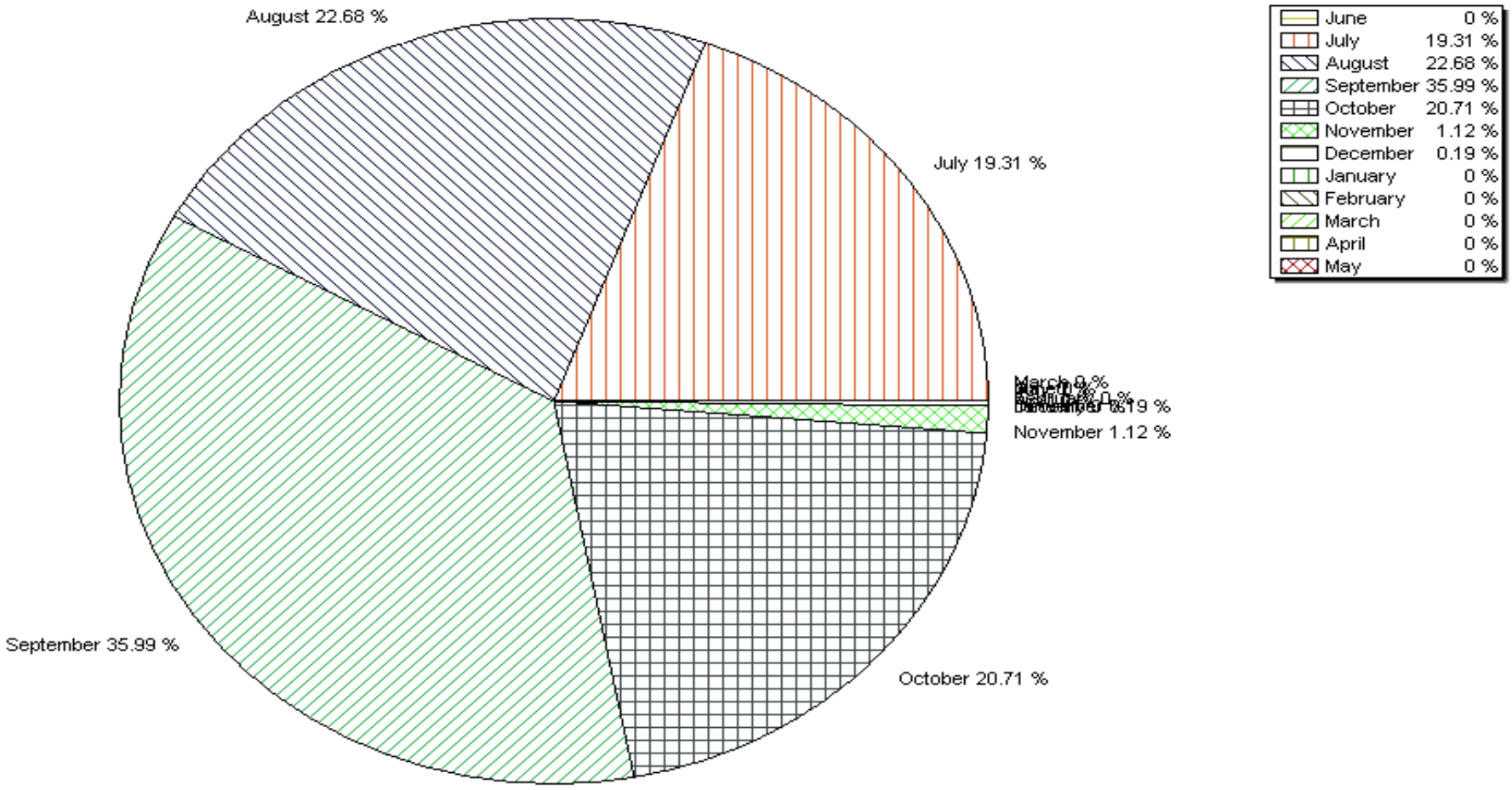
Sub-Division : L Wainganga SD, Chandrapur



Monthly Runoff for the Year : 2016-2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

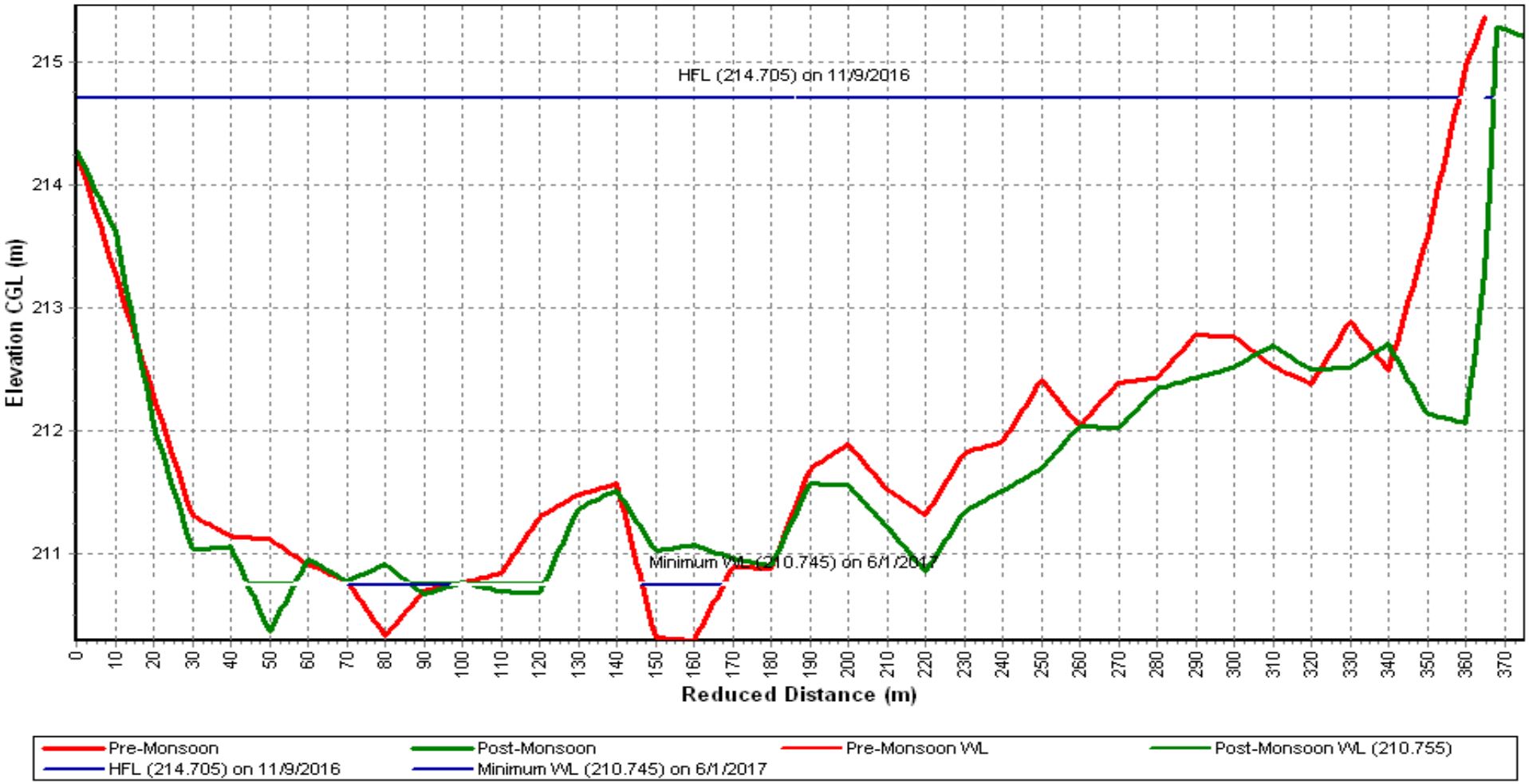
Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

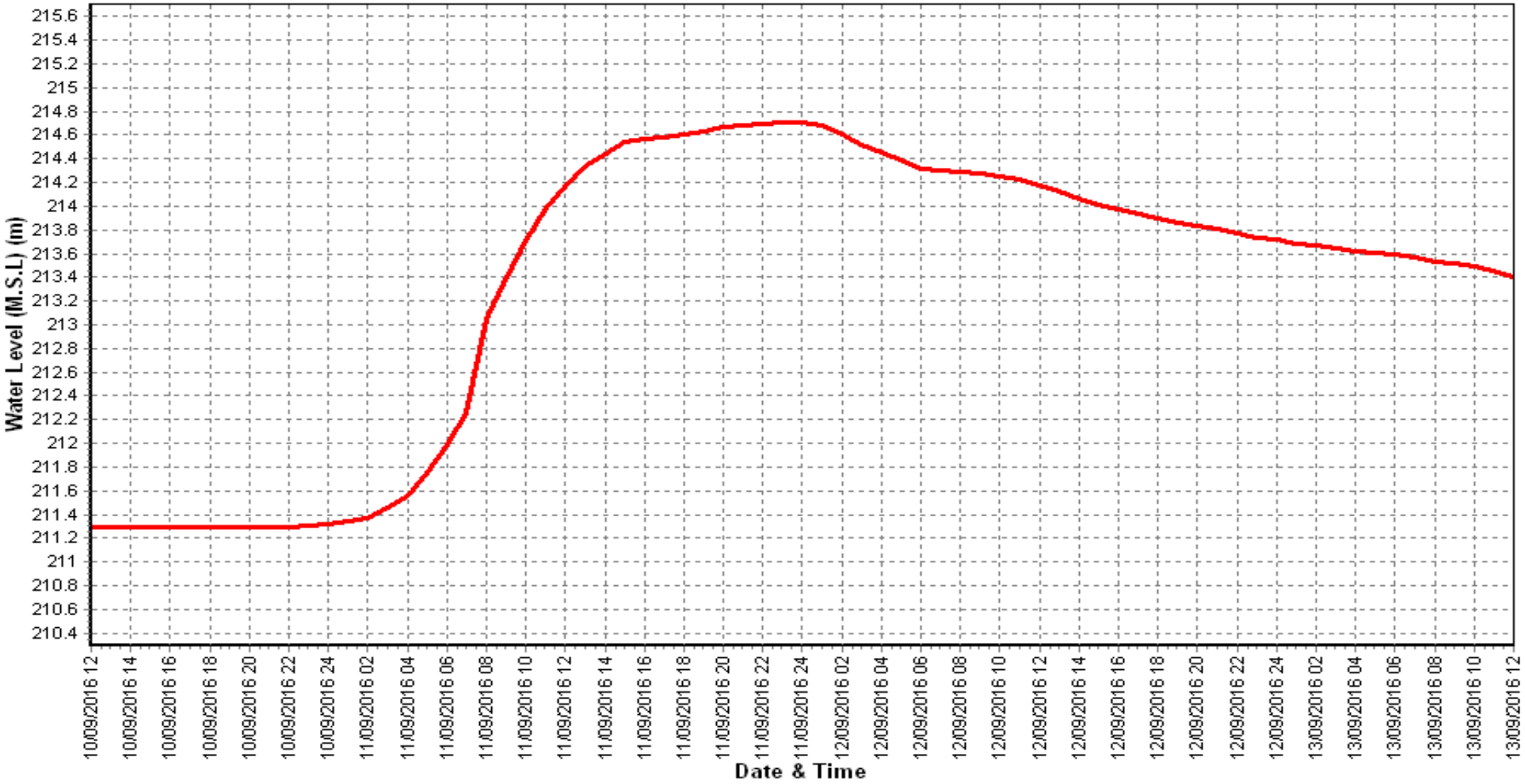
Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

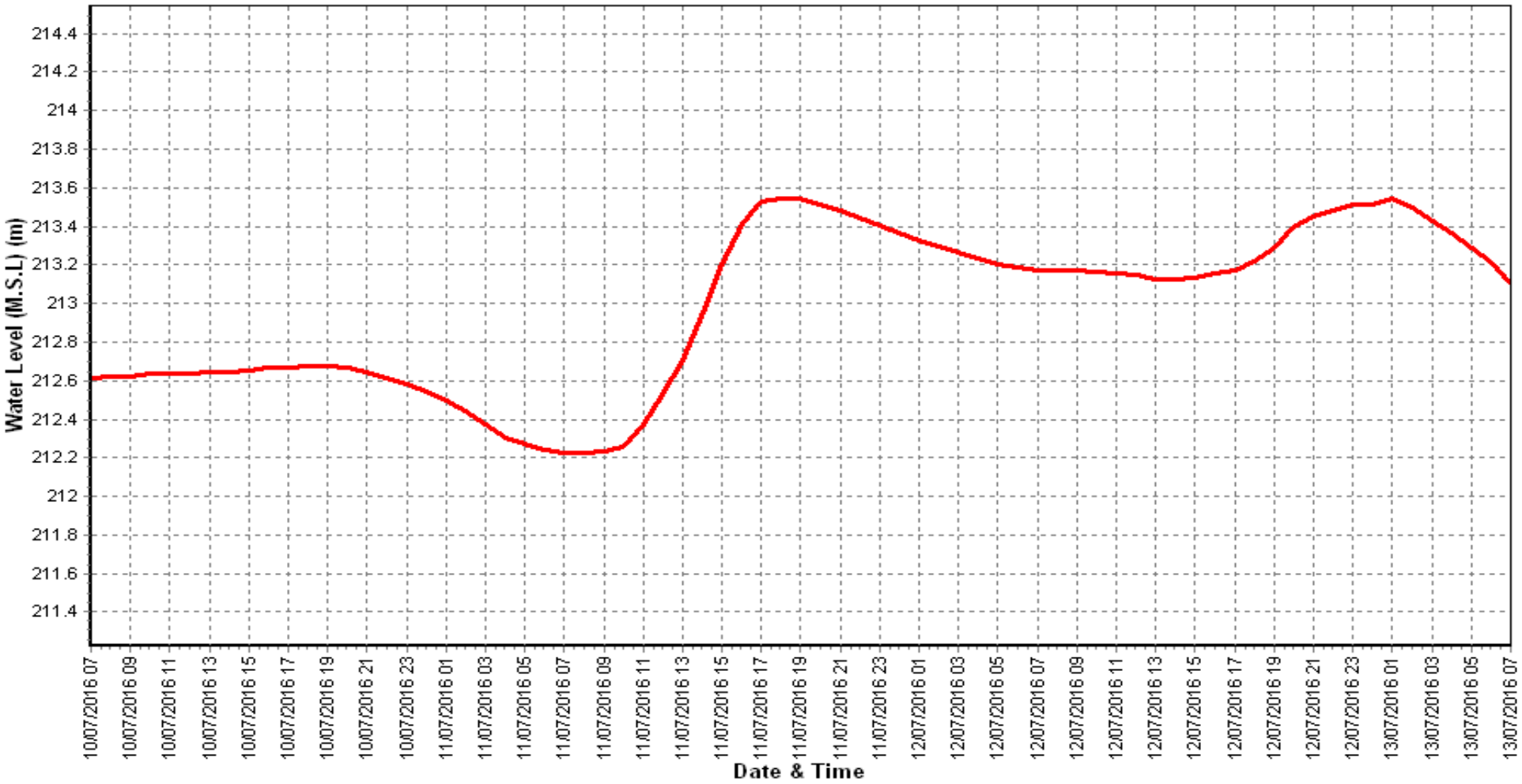


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**

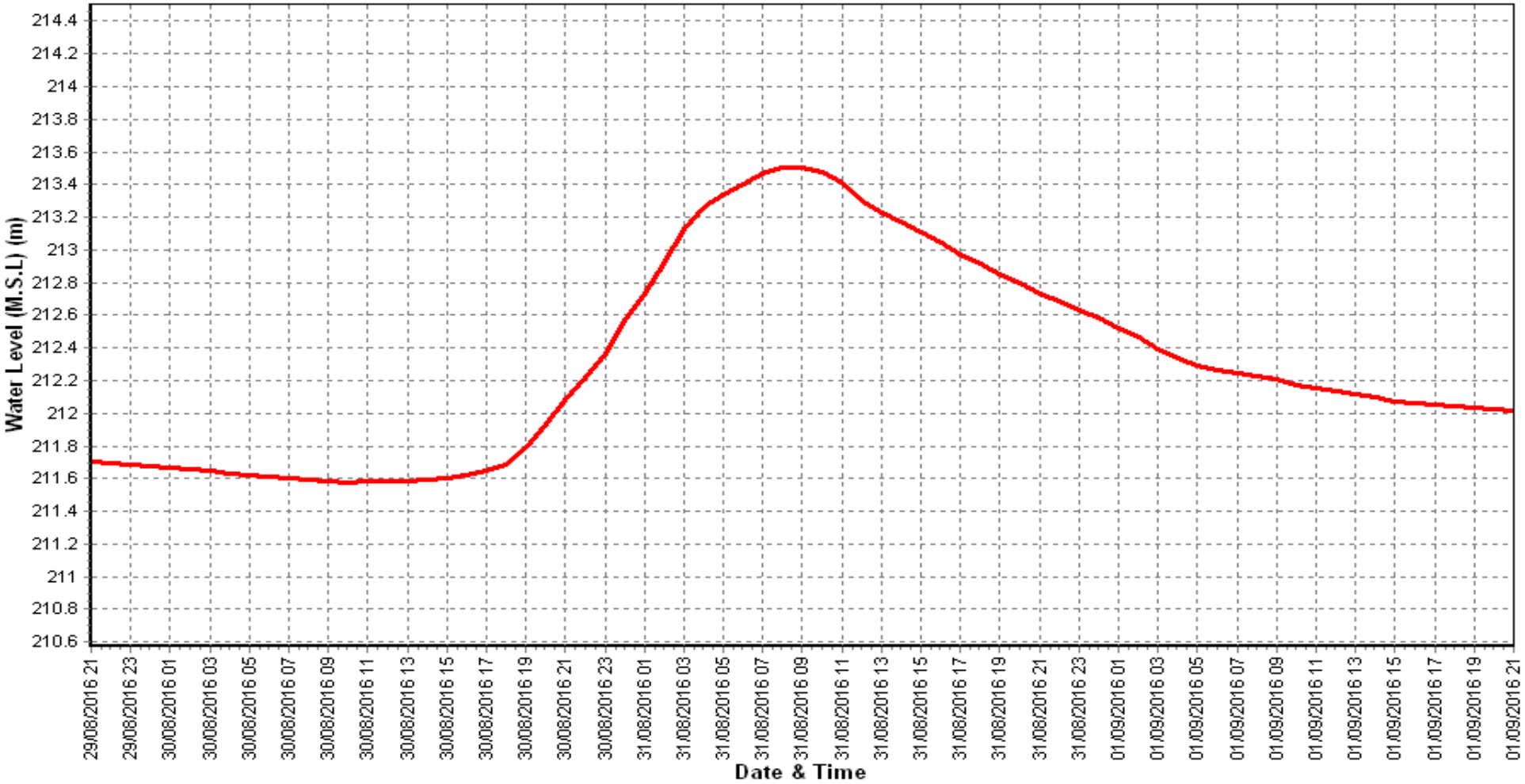


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : WAIRAGARH (AGH46D4) **Division : Wainganga Div., Nagpur**

Local River : Khobragarhi **Sub-Division : L Wainganga SD, Chandrapur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: SALEBARDI**		**Code**	**: AGH49I1**	
State	: Maharashtra		District	Bhandra	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: Chulband		Local River	: Chulband	
Division	: Wainganga Div., Nagpur		Sub-Division	: Upper Wainganga SD, Nagpur	
Drainage Area	: 1800 Sq. Km.		Bank	: Left	
Latitude	: 20°54'44"		Longitude	: 79°55'40"	
Zero of Gauge (m)	: 223.8 (m.s.l) 224.3 (m.s.l)		26.07.1985 01.06.1993	- 31.05.1993	
	Opening Date		Closing Date		
Gauge	: 26.07.1985				
Discharge	: 21.06.1986		**HFL During 2016-17**	**: 229.150 Meter**	
			Corres.Discharge	**: 500.551 Cumecs(Estimated)**	
Sediment	:		**Date & Time of**	**: 13.09.2016**	
			Occurance	**: 12.00 Hrs.**	
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	2100	230.300	15.08.1986	0.000		18.04.1987
1987-1988	73.20	226.180	29.08.1987	0.000		14.04.1988
1988-1989	968.7	230.105	27.07.1988	0.000		27.03.1989
1989-1990	357.3	228.315	23.08.1989	0.000	0.000	15.03.1990
1990-1991	329.9	228.490	15.09.1990	0.000		11.05.1991
1991-1992	1266	230.565	30.07.1991	0.000		28.02.1992
1992-1993	853.7	229.775	21.08.1992	0.000		01.03.1993
1993-1994	1099	230.670	02.08.1993	0.000		20.04.1994
1994-1995	1537	231.980	11.07.1994	0.000		28.09.1994
1995-1996	868.0	230.300	02.09.1995	0.000		13.03.1996
1996-1997	332.4	229.060	27.07.1996	0.000		01.04.1997
1997-1998	630.7	229.285	23.08.1997	0.000		15.04.1998
1998-1999	1017	230.570	14.09.1998	0.000		01.04.1999
1999-2000	985.6	231.105	09.08.1999	0.000		09.03.2000
2000-2001	1860	233.130	19.07.2000	0.000		25.01.2001
2001-2002	505.1	229.090	15.06.2001	0.000		05.02.2002
2002-2003	1321	231.600	23.08.2002	0.000		14.02.2003
2003-2004	508.8	229.085	02.09.2003	0.000		20.02.2004
2004-2005	283.8	228.390	22.08.2004	0.000		10.01.2005
2005-2006	3017	233.520	15.09.2005	0.000		19.03.2006
2006-2007	1690	231.840	14.08.2006	0.000		22.02.2007

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2007-2008	1281	230.350	08.08.2007	0.015	225.380	10.01.2008
2008-2009	244.7	228.400	11.08.2008	0.001	226.070	10.12.2008
2009-2010	466.6	228.850	15.07.2009	0.041	226.150	09.07.2009
2010-2011	2399	232.440	08.09.2010	0.000		24.02.2011
2011-2012	825.8	231.010	08.09.2011	0.000		21.02.2012
2012-2013	312.5	228.845	31.07.2012	0.000		02.02.2013
2013-2014	735.4	230.580	01.08.2013	0.000		28.02.2014
2014-2015	1745	231.200	23.07.2014	0.000	226.460	16.12.2014
2015-2016	634.1	229.870	18.09.2015	0.000	226.170	29.12.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	224.300	0.000	224.300	0.000	226.840	27.13	227.180	67.73 #	227.210	69.61	226.530	1.968
2	224.300	0.000	224.300	0.000	226.730	17.83	226.900	34.85	226.990	54.38 *	226.530	2.071
3	224.300	0.000	224.300	0.000	227.360	104.7	226.820	28.03	226.950	44.47	226.520	1.784
4	224.300	0.000	224.300	0.000	226.970	43.86	226.780	20.11 *	226.850	32.77 #	226.500	1.426
5	224.300	0.000	224.300	0.000	227.295	89.90	226.710	13.97 *	226.760	22.99	226.670	4.359 #
6	224.300	0.000	224.300	0.000	228.295	245.6	226.670	10.24	226.700	18.24	226.540	2.041 *
7	224.300	0.000	224.300	0.000	227.640	143.0 *	226.640	9.705	226.700	17.64	226.500	1.426
8	224.300	0.000	224.300	0.000	227.260	81.83	226.620	6.348	226.915	43.20	226.480	1.261
9	224.300	0.000	228.670	371.1 *	226.940	39.89	226.590	5.480	227.690	228.0 *	226.470	1.109
10	224.300	0.000	227.970	207.9 *	226.840	32.27	226.570	3.956	227.290	95.49	226.460	0.951
11	224.300	0.000	226.885	29.52	226.880	36.43	226.650	9.353 *	226.990	54.38 *	226.460	0.850
12	224.300	0.000	227.150	63.52 #	226.780	17.37	227.270	80.91 #	226.840	31.41 *	226.450	0.837
13	224.300	0.000	227.460	100.4	226.720	16.80	228.670	371.1 *	226.745	24.06	226.440	0.758 *
14	224.300	0.000	226.910	40.73	226.660	10.08 *	227.950	214.8	226.710	16.71	226.440	0.758 *
15	224.300	0.000	226.710	14.32	226.640	8.647 *	227.250	77.91 #	226.670	15.05	226.440	0.792
16	224.300	0.000	226.895	28.57	226.620	8.428	227.000	35.40	226.650	10.57 *	226.440	0.764
17	224.300	0.000	227.000	43.93 *	226.620	8.310	226.900	28.98	226.630	9.422	226.440	0.707
18	224.300	0.000	227.760	133.2	226.590	5.420 #	226.820	23.96 *	226.540	3.979	226.430	0.672
19	224.300	0.000	227.220	63.64	226.590	5.420 #	226.750	19.08	226.510	1.872 #	226.430	0.649
20	224.300	0.000	226.960	29.51	226.570	4.213	226.720	16.30	226.530	3.029	226.430	0.658 *
21	224.300	0.000	226.740	16.51 #	226.560	3.749 *	226.700	16.13	226.550	3.612	226.420	0.620
22	224.300	0.000	227.720	128.7	226.550	2.806	226.690	13.75	226.560	3.555	226.410	0.474 #
23	224.300	0.000	227.215	60.12	226.530	1.885	226.680	13.69	226.680	13.21 *	226.410	0.474 #
24	224.300	0.000	226.990	42.71 *	226.520	1.810	226.640	8.694	226.650	9.740	226.400	0.480
25	224.300	0.000	226.820	27.62	226.520	1.783	226.820	23.96 *	226.580	5.095	226.400	0.470
26	224.300	0.000	226.690	14.32	226.530	1.872	227.040	40.85	226.570	5.087	226.400	0.441
27	224.300	0.000	226.680	12.59	227.280	91.87	227.260	93.98	226.605	6.823	226.400	0.391 *
28	224.300	0.000	226.630	7.190	227.220	73.49 *	226.990	34.66	226.600	5.044	226.400	0.322
29	224.300	0.000	226.590	5.370	226.885	32.84	227.040	42.24	226.580	4.216	226.400	0.330
30	224.300	0.000	226.660	8.587	226.770	21.02	228.125	270.0	226.560	4.262 *	226.420	0.471
31			226.690	12.36 *	228.085	255.9			226.540	2.964		
Ten-Daily Mean												
I Ten-Daily	224.300	0.000	228.320	57.90	227.217	82.60	226.748	20.04	227.005	62.68	226.520	1.840
II Ten-Daily	224.300	0.000	227.095	54.74	226.667	12.11	227.198	87.77	226.682	17.05	226.440	0.744
III Ten-Daily	224.300	0.000	226.857	30.55	226.859	44.46	226.999	55.79	226.589	5.783	226.406	0.447
Monthly												
Min.	224.300	0.000	226.590	0.000	226.520	1.783	226.570	3.956	226.510	1.872	226.400	0.322
Max.	224.300	0.000	228.670	371.1	228.295	255.9	228.670	371.1	227.690	228.0	226.670	4.359
Mean	224.300	0.000	227.088	47.17	226.913	46.33	226.982	54.54	226.753	27.77	226.455	1.010

Annual Runoff in MCM = 469 Annual Runoff in mm = 261

Peak Observed Discharge = 270.0 cumecs on 30/09/2016 Corres. Water Level :228.125 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	226.420	0.294 #	226.370	0.000	226.270	0.000	224.300	0.000	224.300	0.000	224.300	0.000
2	226.420	0.294 #	226.370	0.000	226.270	0.000	224.300	0.000	224.300	0.000	224.300	0.000
3	226.420	0.294 #	226.360	0.000	226.260	0.000	224.300	0.000	224.300	0.000	224.300	0.000
4	226.420	0.294 *	226.360	0.000	226.260	0.000	224.300	0.000	224.300	0.000	224.300	0.000
5	226.410	0.247 #	226.360	0.000	226.250	0.000	224.300	0.000	224.300	0.000	224.300	0.000
6	226.410	0.247 #	226.360	0.000	226.240	0.000	224.300	0.000	224.300	0.000	224.300	0.000
7	226.400	0.269	226.360	0.000	226.230	0.000	224.300	0.000	224.300	0.000	224.300	0.000
8	226.400	0.219	226.360	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
9	226.400	0.218	226.360	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
10	226.400	0.246	226.360	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
11	226.400	0.204 *	226.370	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
12	226.400	0.204 *	226.370	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
13	226.400	0.172	226.370	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
14	226.400	0.181	226.370	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
15	226.400	0.169	226.370	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
16	226.400	0.182	226.370	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
17	226.410	0.241	226.360	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
18	226.410	0.247 *	226.360	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
19	226.410	0.235	226.350	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
20	226.400	0.213	226.350	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
21	226.390	0.158	226.340	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
22	226.380	0.124	226.340	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
23	226.380	0.149	226.330	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
24	226.390	0.171	226.320	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
25	226.390	0.164 *	226.310	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
26	226.390	0.181	226.310	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
27	226.380	0.102	226.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
28	226.370	0.000	226.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
29	226.370	0.000	226.290	0.000			224.300	0.000	224.300	0.000	224.300	0.000
30	226.370	0.000	226.280	0.000			224.300	0.000	224.300	0.000	224.300	0.000
31	226.370	0.000	226.270	0.000			224.300	0.000			224.300	0.000
Ten-Daily Mean												
I Ten-Daily	226.410	0.262	226.362	0.000	226.254	0.000	224.300	0.000	224.300	0.000	224.300	0.000
II Ten-Daily	226.403	0.205	226.364	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
III Ten-Daily	226.380	0.095	226.308	0.000	224.300	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Monthly												
Min.	226.370	0.000	226.270	0.000	226.230	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Max.	226.420	0.294	226.370	0.000	226.270	0.000	224.300	0.000	224.300	0.000	224.300	0.000
Mean	226.397	0.184	226.344	0.000	226.254	0.000	224.300	0.000	224.300	0.000	224.300	0.000

Peak Computed Discharge = 371.1 cumecs on 09/07/2016 Corres. Water Level :228.67 m

Lowest Computed Discharge = 0.164 cumecs on 25/12/2016 Corres. Water Level :226.39 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

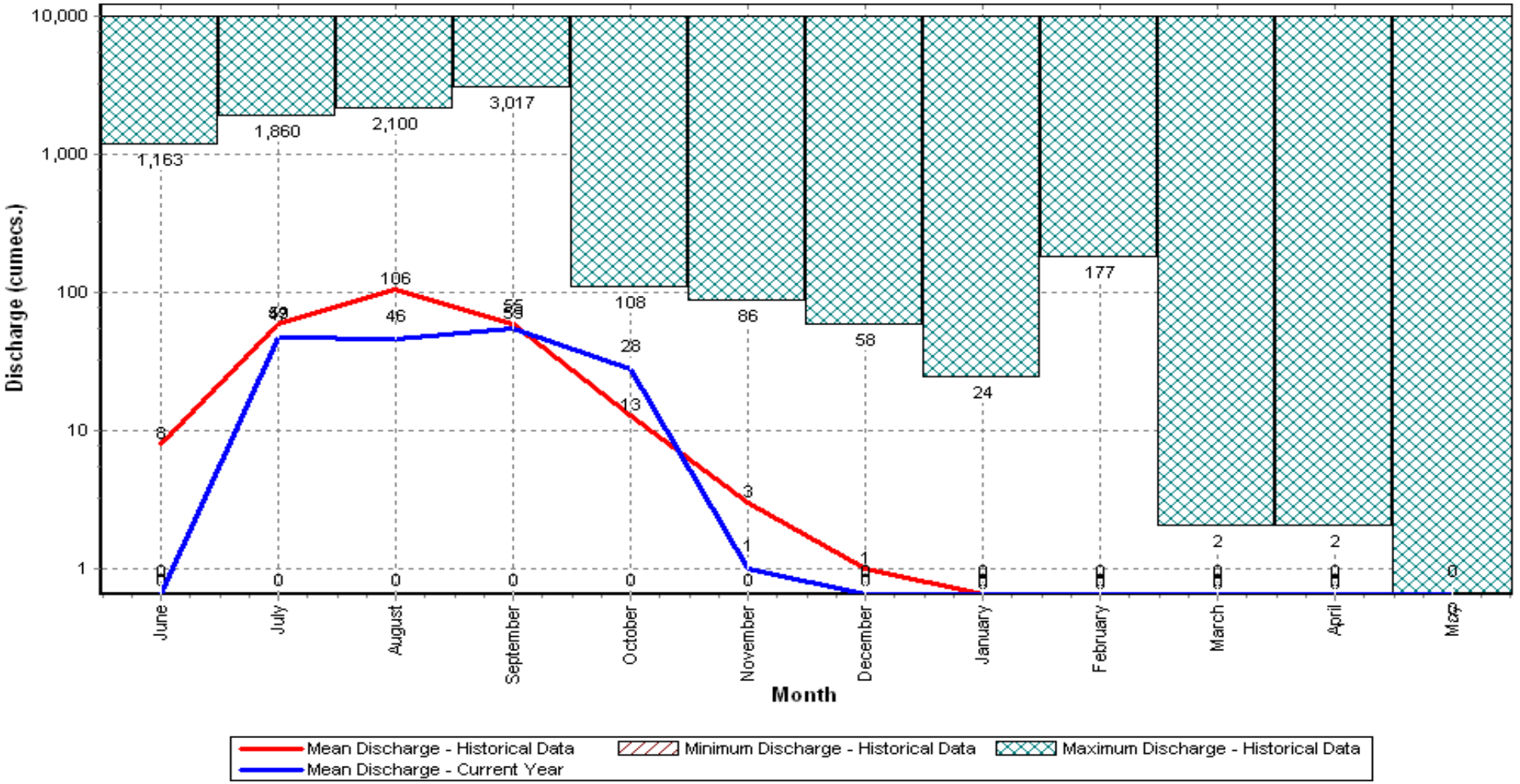
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : SALEBARDI (AGH49I1) | **Data considered : 1986-2017** | **Division : Wainganga Div., Nagpur**

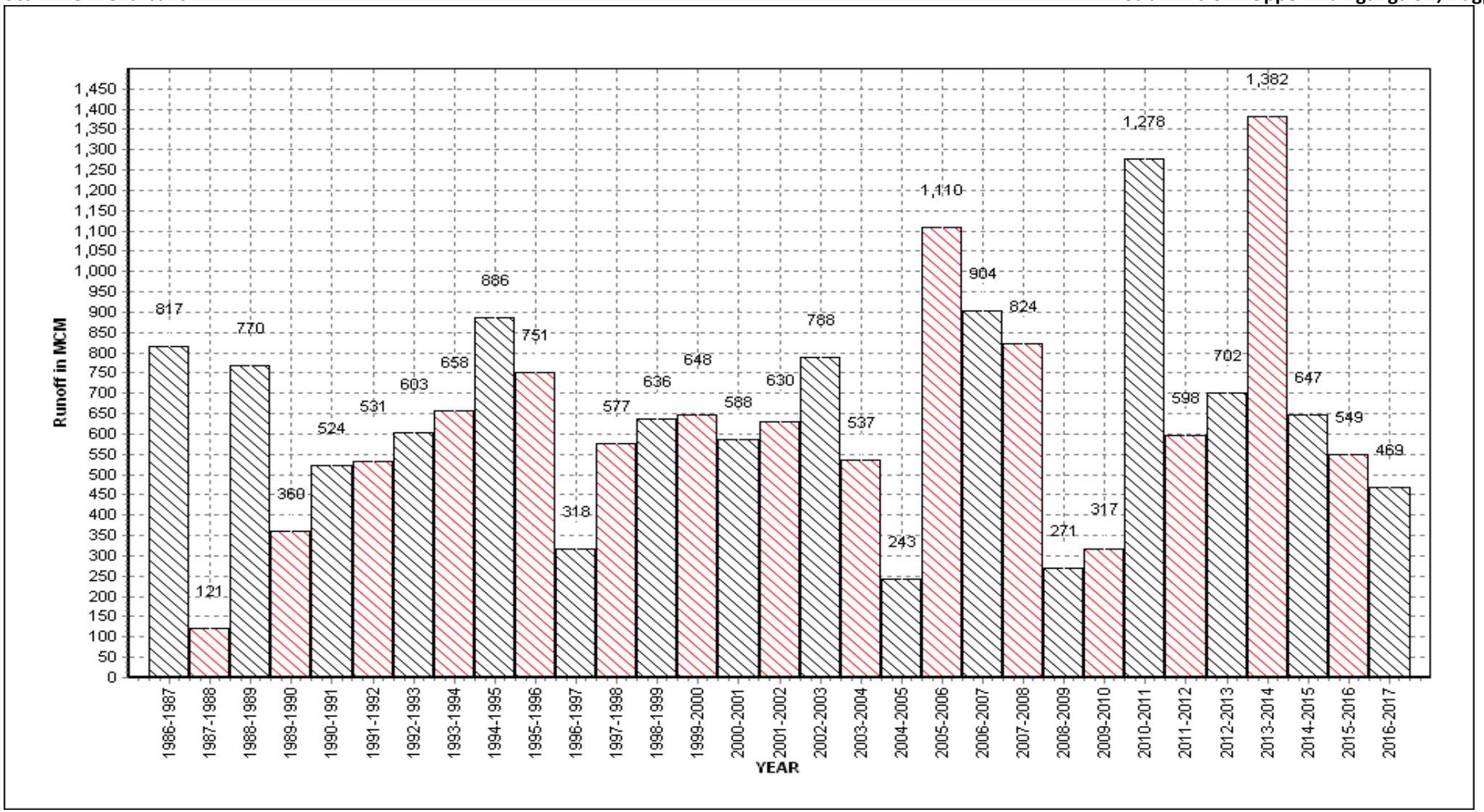
Local River : Chulband | **Sub-Division : Upper Wainganga SD, Nagpur**


10,000
1,000
100
10
1
Discharge (cumecs.)
1,163
1,860
2,100
3,017
108
86
58
24
177
2
2
0
106
46
28
13
3
1
1
0
0
0

Annual Runoff Values for the period: 1986 - 2017

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**



Note: Missing values have not been considered while arriving at Annual Runoff

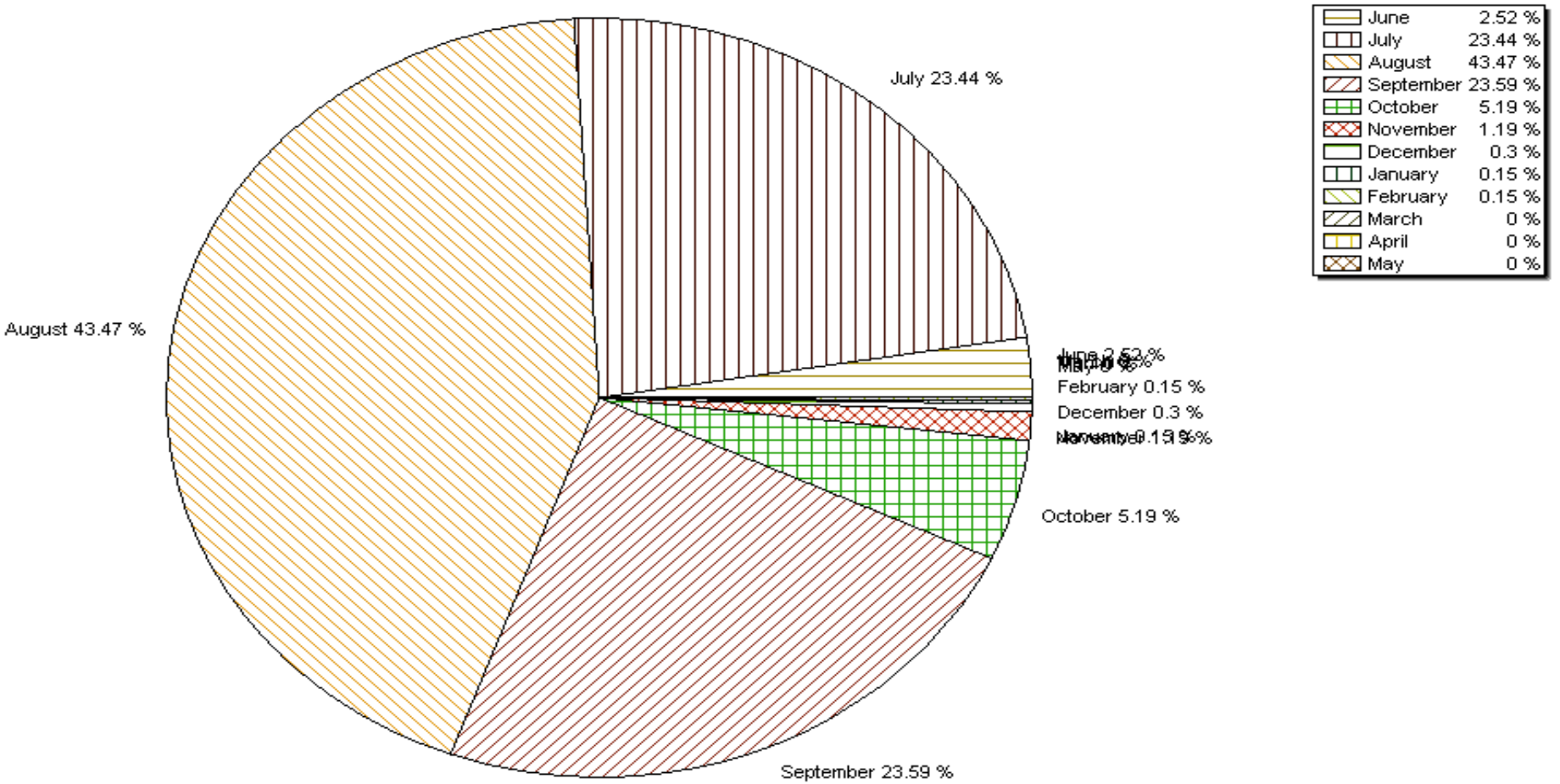
Monthly Average Runoff based on period : 1986-2016

Station Name : SALEBARDI (AGH49I1)

Local River : Chulband

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



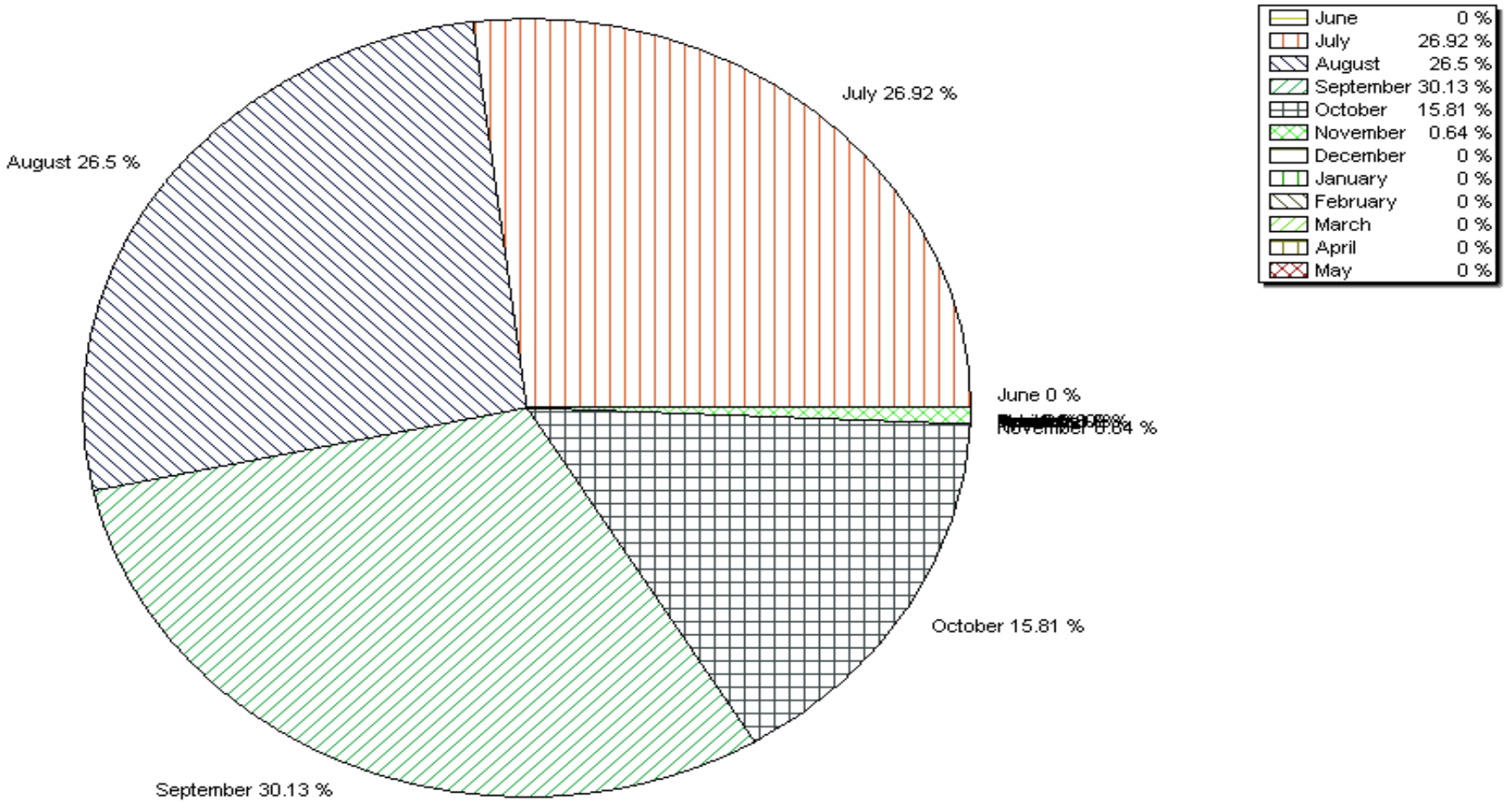
Monthly Runoff for the Year : 2016-2017

Station Name : SALEBARDI (AGH49I1)

Division : Wainganga Div., Nagpur

Local River : Chulband

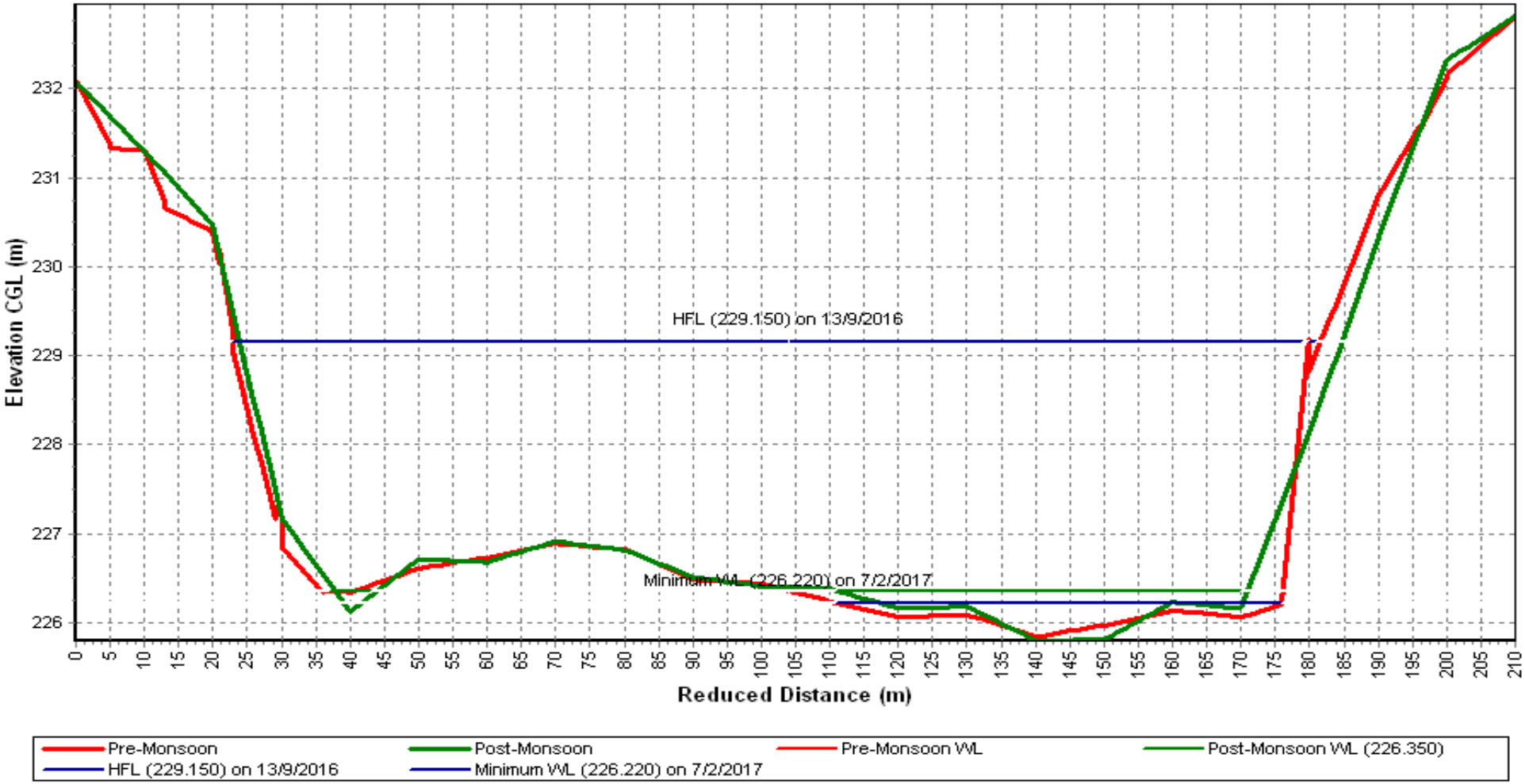
Sub-Division : Upper Wainganga SD, Nagpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

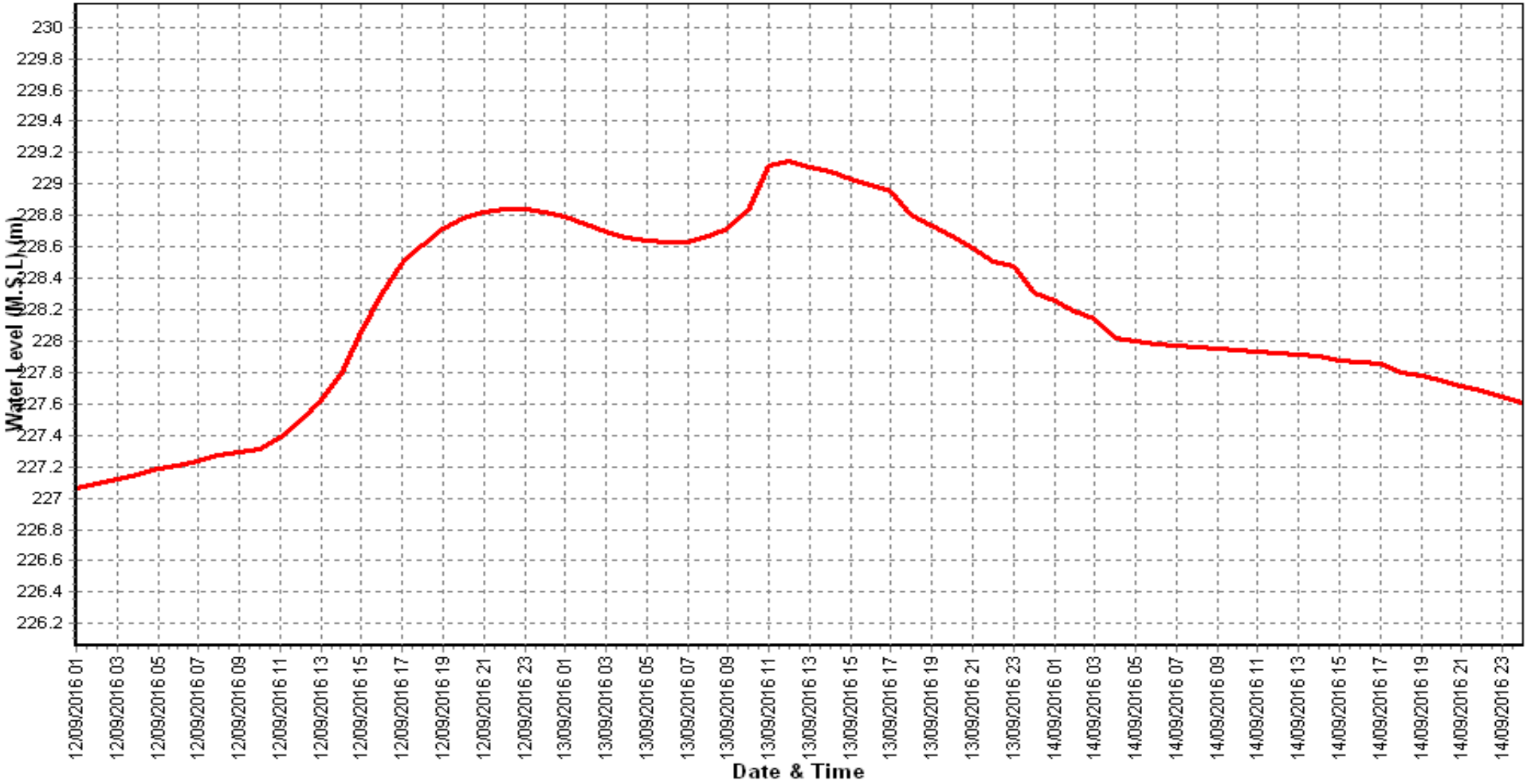
Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

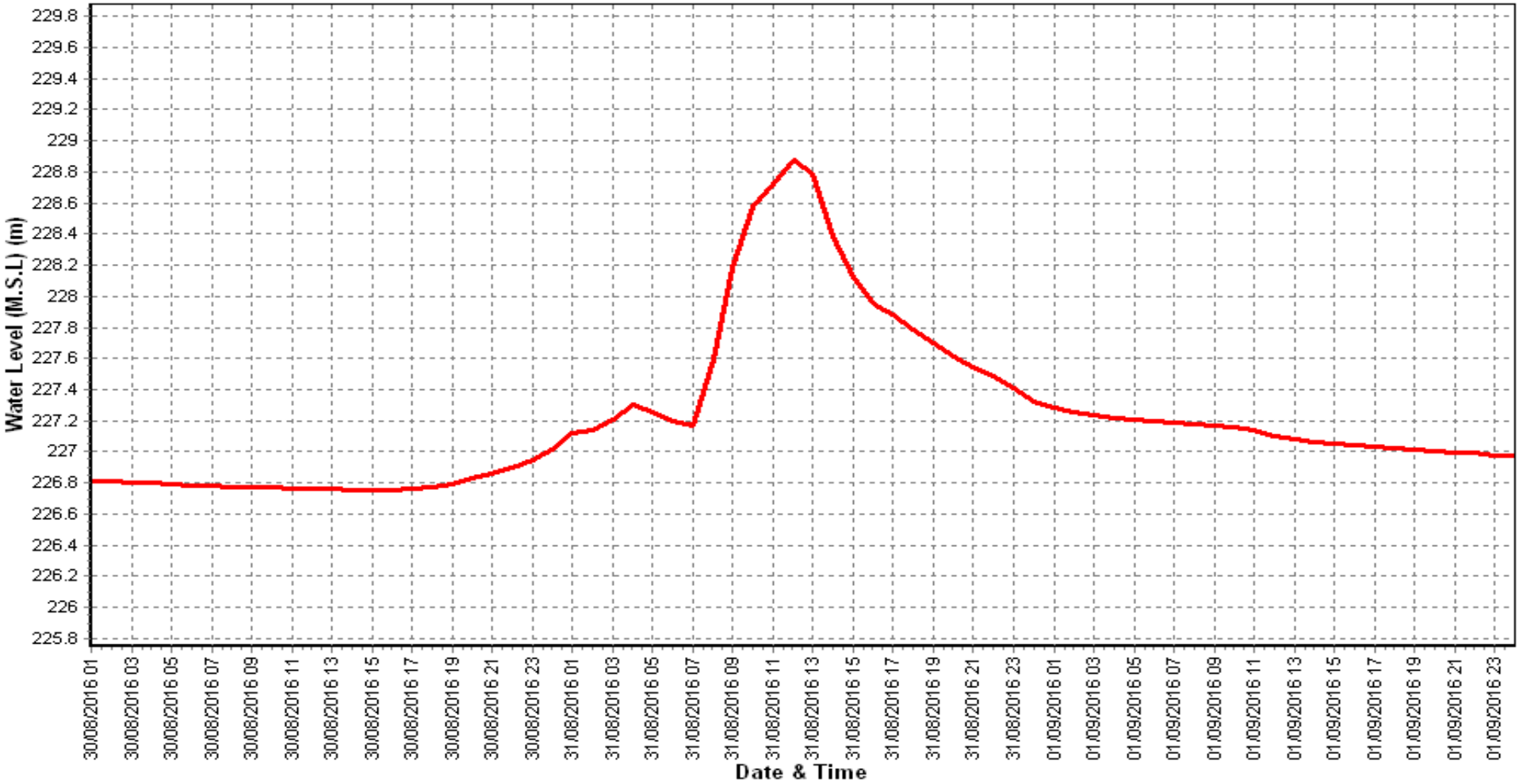


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**

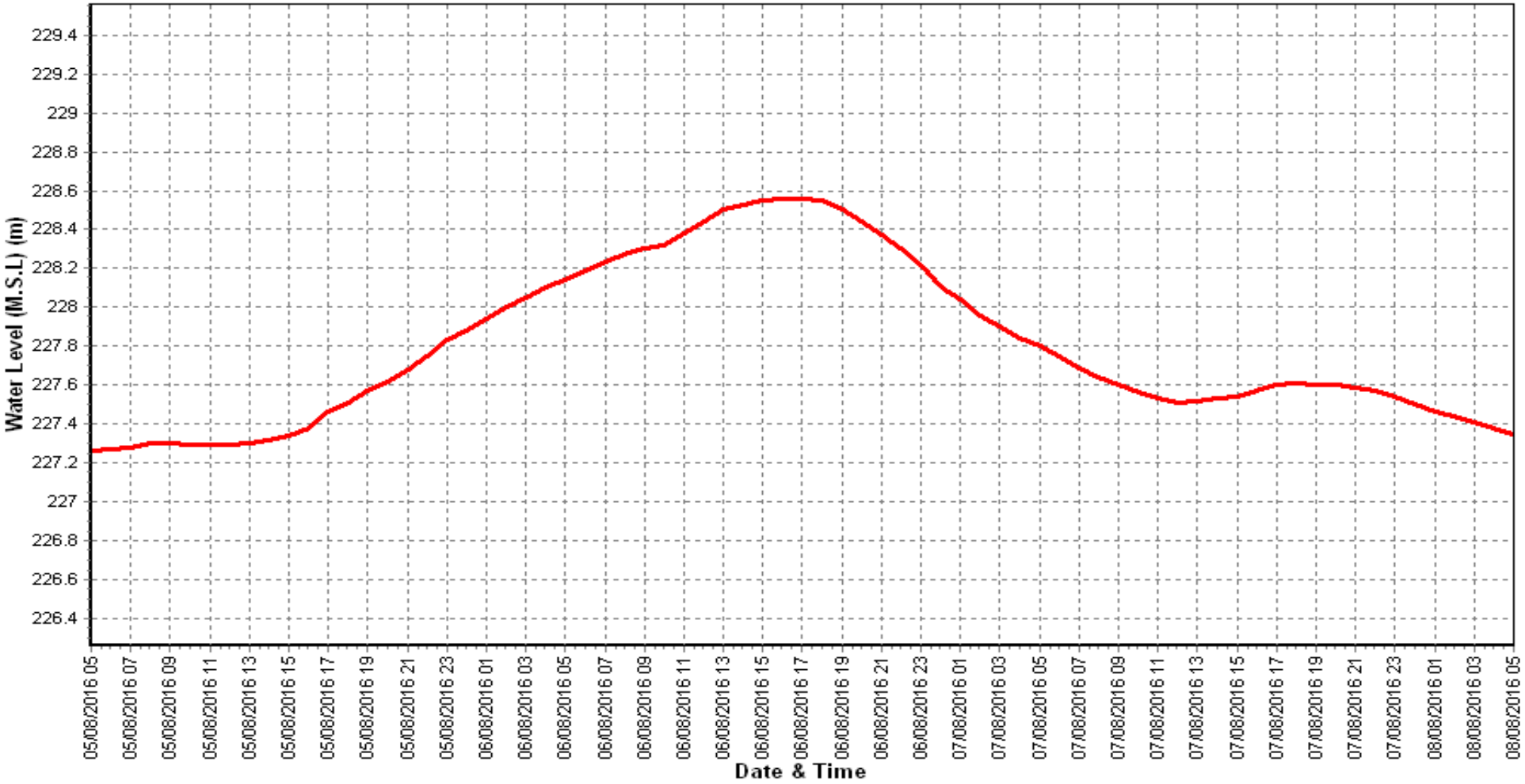


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : SALEBARDI (AGH49I1) **Division : Wainganga Div., Nagpur**

Local River : Chulband **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**SATRAPUR**	**Code**	**:**	**AGH4BF6**
State	:	Maharashtra	District		Nagpur
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	Khanan	Local River	:	Khanan
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Upper Wainganga SD, Nagpur
Drainage Area	:	11100 Sq. Km.	Bank	:	Left
Latitude	:	21°13'00"	Longitude	:	79°13'59"
Zero of Gauge (m)	:	263.3 (m.s.l) 264.3 (m.s.l)	01.04.1987 07.09.1984	-	31.03.1987
		Opening Date	Closing Date		
Gauge	:	07.09.1984			
Discharge	:	30.05.1986	**HFL During 2016-17**	**:**	**268.650 Meter**
			Corres.Discharge	**:**	**2251.992 Cumecs(Estimated)**
Sediment	:	01.08.1988	**Date & Time of**	**:**	**09.07.2016**
			Occurance	**:**	**16.00 Hrs.**
Water Quality	:	09.12.1987			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	3000	275.695	15.08.1986	0.900	265.115	23.05.1987
1987-1988	218.0	267.130	29.08.1987	0.300	265.000	13.03.1988
1988-1989	1111	269.025	05.08.1988	0.500	265.050	09.06.1988
1989-1990	700.0	267.240	23.08.1989	0.370	264.630	23.04.1990
1990-1991	1698	269.295	30.08.1990	2.000	264.660	29.05.1991
1991-1992	3464	271.350	31.07.1991	0.240	264.540	31.05.1992
1992-1993	3569	271.315	17.08.1992	0.185	264.540	02.06.1992
1993-1994	1656	269.005	28.09.1993	0.980	264.760	09.06.1993
1994-1995	14161	277.610	06.09.1994	1.910	264.720	03.06.1994
1995-1996	1078	267.795	02.09.1995	1.670	264.175	08.05.1996
1996-1997	853.6	267.555	27.07.1996	0.630	264.105	29.05.1997
1997-1998	2817	270.250	26.07.1997	1.000	264.300	05.04.1998
1998-1999	2609	270.260	15.09.1998	2.700	264.010	03.05.1999
1999-2000	4968	272.890	19.09.1999	1.760	264.070	14.05.2000
2000-2001	1117	267.385	13.07.2000	0.150	263.620	13.04.2001
2001-2002	1476	267.900	14.06.2001	0.090	263.630	11.05.2002
2002-2003	554.1	266.750	19.08.2002	0.137	263.700	05.06.2002
2003-2004	3396	271.513	28.07.2003	1.683	263.970	14.04.2004
2004-2005	857.1	267.810	05.08.2004	0.225	263.830	12.04.2005
2005-2006	3655	271.980	15.09.2005	1.187	263.750	15.05.2006
2006-2007	3173	271.295	01.09.2006	0.611	263.740	17.05.2007

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2007-2008	1850	269.710	08.07.2007	1.718	263.850	06.06.2007
2008-2009	121.2	265.050	22.09.2008	1.263	263.930	09.03.2009
2009-2010	1562	268.850	23.07.2009	0.931	263.850	06.05.2010
2010-2011	994.2	267.930	07.08.2010	1.421	263.870	10.06.2010
2011-2012	869.1	267.555	15.09.2011	1.308	263.760	14.04.2012
2012-2013	5685	273.265	06.09.2012	1.066	263.840	13.04.2013
2013-2014	7955	274.340	24.08.2013	0.741	263.880	05.06.2013
2014-2015	2615	269.625	23.07.2014	0.626	263.870	21.02.2015
2015-2016	2138	269.150	05.08.2015	0.621	263.720	19.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	263.750	0.817	264.395	32.46	265.315	180.6	265.645	275.8	264.560	69.24	264.140	17.37
2	263.750	0.804	264.290	22.70 #	265.105	129.1	265.030	112.5	264.670	87.25 *	264.130	16.91
3	263.760	0.849	264.870	86.20 *	265.795	325.0	264.785	68.03	264.670	82.54	264.130	16.85
4	263.750	0.802	265.530	251.3	265.185	147.9	264.870	86.20 *	264.540	66.80	264.130	16.54
5	263.740	0.714 *	264.960	100.7 #	265.035	113.6	264.660	57.47 *	264.450	53.04	264.120	16.07
6	263.720	0.610	264.700	62.41 *	264.950	95.79	264.550	44.92	264.470	55.08	264.120	17.23 *
7	263.720	0.612	265.040	140.3	265.430	199.5 *	264.480	31.93	264.440	52.40	264.120	15.91
8	263.730	0.636	265.300	205.3	265.200	151.6	264.440	32.44	264.605	67.62	264.110	15.50
9	263.730	0.623	266.100	505.9	265.140	137.2	264.405	52.45	264.700	92.55 *	264.110	15.52
10	263.730	0.653	267.440	1160 *	264.945	94.78	264.380	46.15	264.760	96.97	264.110	15.52
11	263.730	0.601	266.675	789.1	264.970	99.86	264.370	42.60 *	264.590	73.85 *	264.100	15.22
12	263.790	1.078 *	266.975	860.6	264.870	80.19	264.360	42.41	264.490	58.62 *	264.100	15.09
13	263.780	0.976	267.245	1155	264.785	68.03	264.360	41.37 *	264.410	52.97	264.090	14.93 *
14	263.850	3.479	266.030	388.3 #	264.720	64.98 *	264.480	52.09	264.360	44.57	264.090	14.93 *
15	263.840	3.302	264.980	104.1 #	264.670	58.69 *	264.385	48.06	264.330	41.25	264.090	14.74
16	263.830	3.168	264.800	75.85 #	264.640	48.32	264.360	44.47	264.310	35.52 *	264.090	14.74
17	263.830	3.142	264.670	58.69 *	264.680	53.15	264.340	41.63	264.300	37.61	264.070	11.46
18	263.840	3.448	264.725	59.31	264.610	44.98	264.290	33.29 *	264.290	35.05	264.060	11.81
19	263.860	3.558 *	264.730	60.01	264.560	39.82	264.300	37.54	264.280	34.41	264.050	11.49
20	263.830	3.135	264.740	84.36	264.510	35.00	264.300	37.49	264.260	32.92	264.050	12.10 *
21	263.820	3.018	264.610	51.64 #	264.490	39.13 *	264.595	66.89	264.250	32.15	264.040	10.84
22	263.820	3.011	264.510	41.07 #	264.470	30.94	264.830	101.7	264.240	31.46	264.030	10.68
23	263.820	2.982	265.175	145.5	264.460	29.96	264.525	64.68	264.230	27.04 *	264.020	10.42
24	263.810	2.722	264.840	81.67 *	264.440	28.05	264.440	51.78	264.220	30.19	264.020	10.26
25	263.890	4.440	264.890	83.99	264.495	33.45	264.700	92.55 *	264.200	29.23	264.020	10.18
26	264.040	9.166 *	265.460	220.2	264.440	28.05	265.625	332.7	264.180	21.18	264.010	9.951
27	264.275	22.32	267.000	823.7	264.410	25.29	264.945	130.5	264.170	20.36	264.010	9.565 *
28	264.160	17.33	266.440	649.1	265.080	122.1 *	264.695	87.84	264.160	19.60	264.000	9.663
29	264.120	15.50	265.325	183.2	264.695	55.17	264.560	69.81	264.150	19.07	264.000	9.589
30	264.380	31.02	265.480	225.9	264.630	47.19	264.500	62.21	264.150	19.70 *	264.000	9.531
31			265.190	144.0 *	264.510	35.00			264.140	17.39		
Ten-Daily Mean												
I Ten-Daily	263.738	0.712	265.263	256.7	265.210	157.5	264.725	80.79	264.586	72.35	264.122	16.34
II Ten-Daily	263.818	2.589	265.557	363.5	264.701	59.30	264.354	42.10	264.362	44.68	264.079	13.65
III Ten-Daily	264.013	11.15	265.356	240.9	264.556	43.12	264.742	106.1	264.190	24.31	264.015	10.07
Monthly												
Min.	263.720	0.601	264.290	22.70	264.410	25.29	264.290	31.93	264.140	17.39	264.000	9.531
Max.	264.380	31.02	267.440	1160	265.795	325.0	265.645	332.7	264.760	96.97	264.140	17.37
Mean	263.857	4.817	265.391	285.6	264.814	85.24	264.607	76.32	264.373	46.37	264.072	13.35

Annual Runoff in MCM = 1412 Annual Runoff in mm = 127

Peak Observed Discharge = 1155 cumecs on 13/07/2016 Corres. Water Level :267.245 m

Lowest Observed Discharge = 0.512 cumecs on 21/04/2017 Corres. Water Level :263.8 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	264.000	9.500	263.940	7.053 *	263.900	1.744	263.920	1.941	263.890	1.357	263.830	0.754
2	263.990	9.219	263.960	7.856	263.900	1.737	263.920	1.929	263.890	1.396 *	263.830	0.758
3	263.990	9.051	264.010	9.880	263.900	1.741	263.950	2.294 #	263.890	1.341	263.830	0.735
4	263.990	9.035 *	263.970	8.037	263.900	1.748	263.950	2.294 #	263.880	1.278	263.840	0.834
5	263.990	9.266	263.970	8.014	263.890	1.396 *	263.930	1.965 *	263.880	1.280	263.840	0.831
6	263.990	9.010	263.960	7.810	263.890	1.664	263.890	1.574	263.880	1.257	263.830	0.747
7	263.970	8.217	263.960	7.799	263.890	1.639	263.880	1.230	263.880	1.231	263.840	0.841 *
8	263.970	8.144	263.960	7.810 *	263.880	1.346	263.870	1.101	263.900	1.382	263.850	0.898
9	263.970	8.078	263.950	7.492	263.890	1.718	263.870	1.082	263.900	1.528 *	263.850	0.894
10	263.970	8.095	263.950	7.508	263.890	1.623	263.870	1.086	263.890	1.294	263.850	0.939 *
11	263.970	8.207 *	263.950	7.510	263.900	1.718	263.860	1.023	263.890	1.277	263.840	0.823
12	263.970	8.207 *	263.950	7.466	263.900	1.528 *	263.850	0.939 *	263.880	1.207	263.870	1.069
13	263.970	8.065	263.950	7.567	263.900	1.709	263.850	0.939 *	263.880	1.191	263.870	1.055
14	263.970	8.037	263.940	6.994	263.920	1.920	263.840	0.903	263.860	1.043 *	263.880	1.271 *
15	263.970	8.028	263.940	7.053 *	263.920	1.961	263.840	0.887	263.840	0.871	263.880	1.121
16	263.970	8.035	263.940	6.951	263.910	1.721	263.840	0.888	263.830	0.749 *	263.880	1.139
17	263.960	7.830	263.940	6.928	263.890	1.608	263.830	0.827	263.830	0.804	263.880	1.135
18	263.960	7.810 *	263.940	6.957	263.890	1.598	263.870	1.048	263.830	0.779	263.870	1.055
19	263.960	7.880	263.940	6.986	263.890	1.396 *	263.890	1.396 *	263.810	0.585 #	263.880	1.118
20	263.960	7.904	263.940	6.960	263.890	1.619	263.910	1.493	263.810	0.585 #	263.880	1.114
21	263.960	7.883	263.940	6.925	263.890	1.610	263.920	1.619	263.800	0.512 #	263.880	1.271 *
22	263.960	7.846	263.930	1.965 *	263.880	1.326	263.910	1.478	263.800	0.512 #	263.870	1.063
23	263.960	7.918	263.920	1.979	263.880	1.317	263.910	1.476	263.810	0.585 *	263.870	1.049
24	263.960	7.859	263.920	1.945	263.880	1.304	263.910	1.476	263.830	0.778	263.870	1.050
25	263.950	7.425 *	263.930	1.960	263.880	1.287	263.900	1.420	263.830	0.756	263.870	1.052
26	263.950	7.643	263.930	1.965 *	263.890	1.396 *	263.910	1.666 *	263.830	0.764	263.870	1.047
27	263.950	7.651	263.930	2.005	263.890	1.591	263.920	1.604	263.820	0.736	263.870	1.034
28	263.950	7.579	263.930	1.978	263.890	1.592	263.920	1.812 *	263.830	0.765	263.860	1.043 *
29	263.950	7.516	263.930	1.965 *			263.920	1.604	263.830	0.750	263.850	0.886
30	263.940	7.100	263.930	1.996			263.920	1.583	263.830	0.749 *	263.850	0.882
31	263.940	7.053	263.930	1.995			263.910	1.530			263.850	0.881
Ten-Daily Mean												
I Ten-Daily	263.983	8.761	263.963	7.926	263.893	1.636	263.905	1.650	263.888	1.334	263.839	0.823
II Ten-Daily	263.966	8.000	263.943	7.137	263.901	1.678	263.858	1.034	263.846	0.909	263.873	1.090
III Ten-Daily	263.952	7.588	263.929	2.425	263.885	1.428	263.914	1.570	263.821	0.691	263.865	1.023
Monthly												
Min.	263.940	7.053	263.920	1.945	263.880	1.287	263.830	0.827	263.800	0.512	263.830	0.735
Max.	264.000	9.500	264.010	9.880	263.920	1.961	263.950	2.294	263.900	1.528	263.880	1.271
Mean	263.966	8.100	263.944	5.720	263.894	1.591	263.893	1.423	263.852	0.978	263.859	0.980

Peak Computed Discharge = 1160 cumecs on 10/07/2016 Corres. Water Level :267.44 m

Lowest Computed Discharge = 0.585 cumecs on 23/04/2017 Corres. Water Level :263.81 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

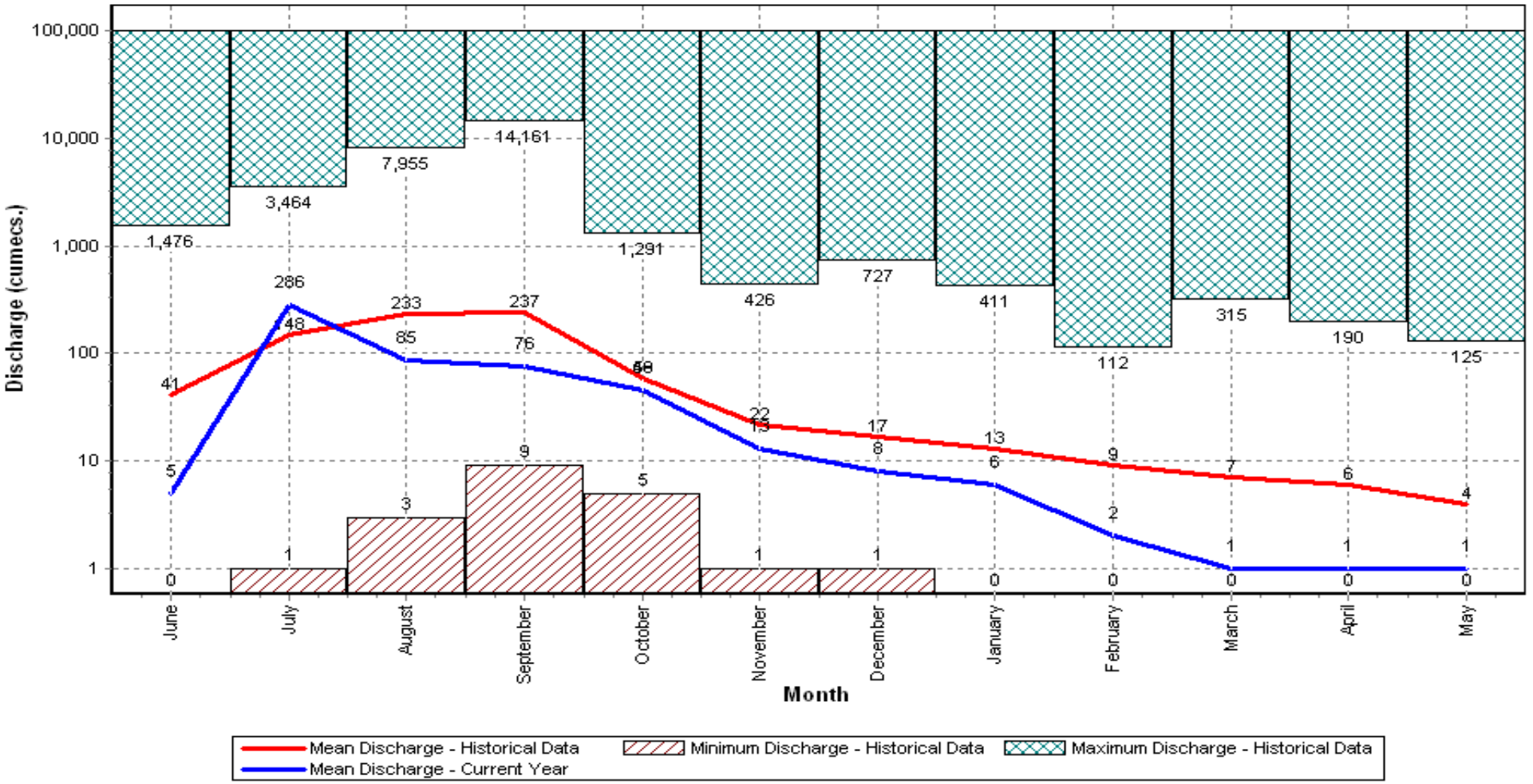
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : SATRAPUR (AGH4BF6) **Data considered : 1986-2017** **Division : Wainganga Div., Nagpur**

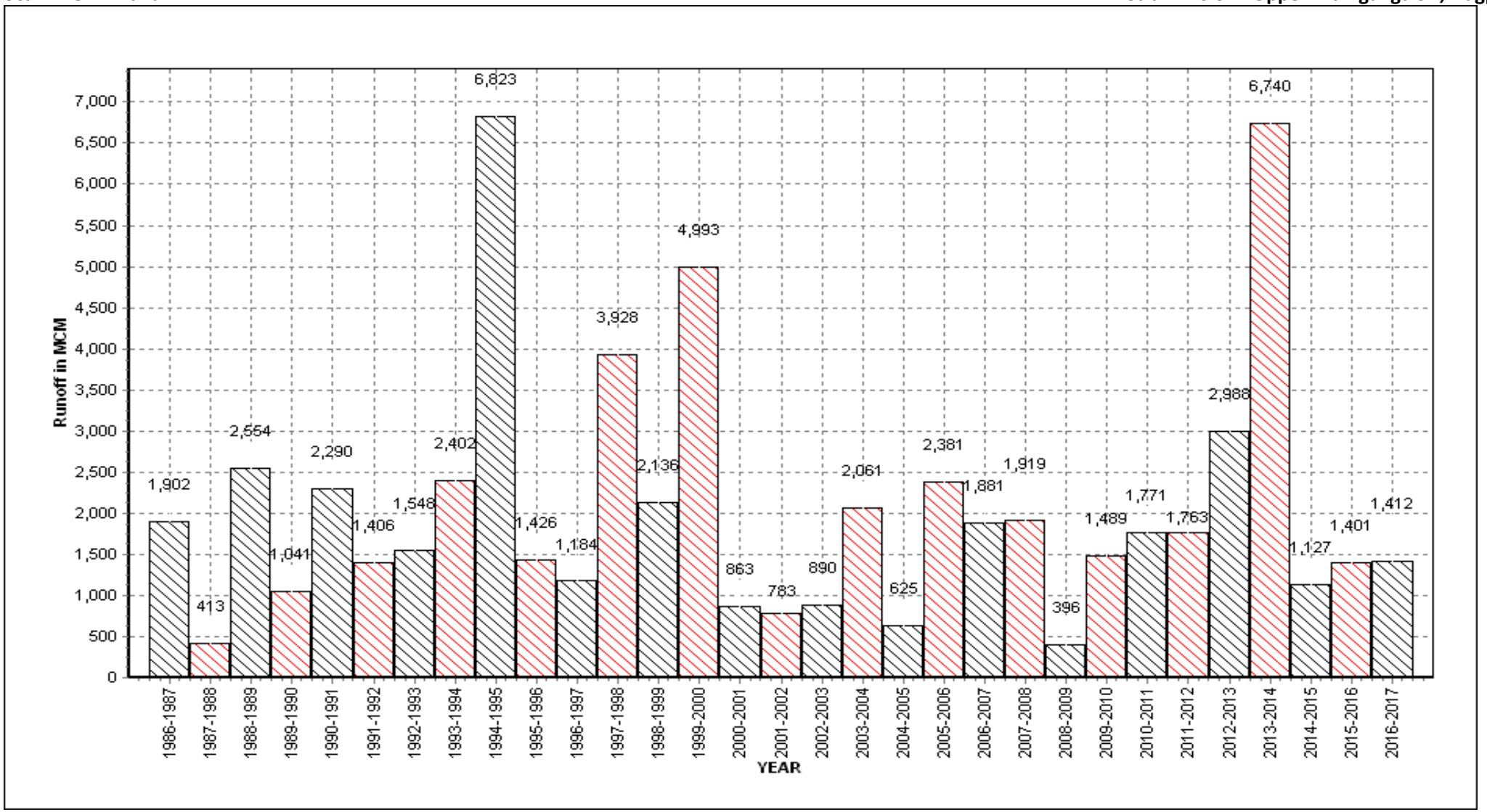
Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1986 - 2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Note: Missing values have not been considered while arriving at Annual Runoff

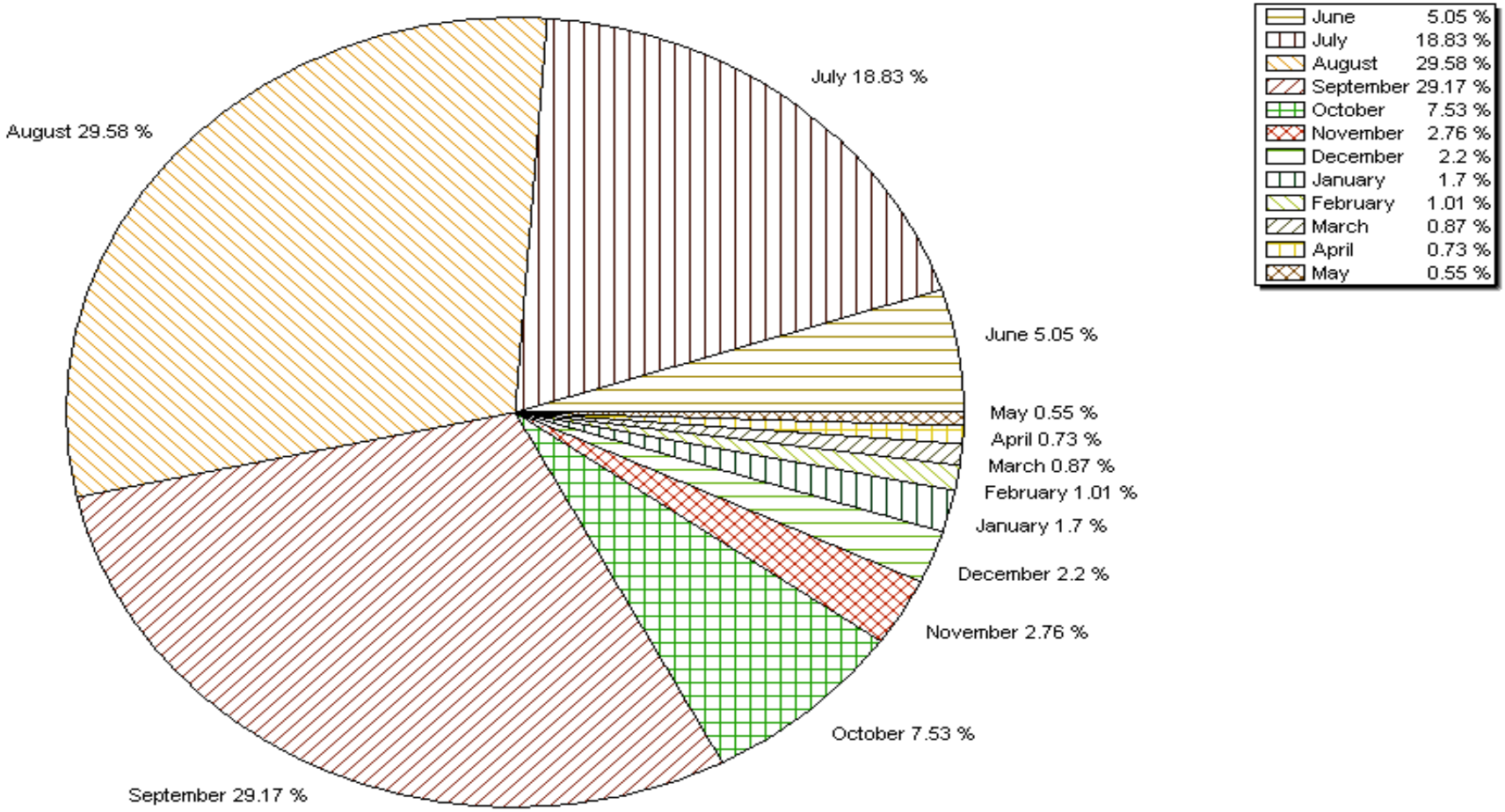
Monthly Average Runoff based on period : 1986-2016

Station Name : SATRAPUR (AGH4BF6)

Local River : Khanan

Division : Wainganga Div., Nagpur

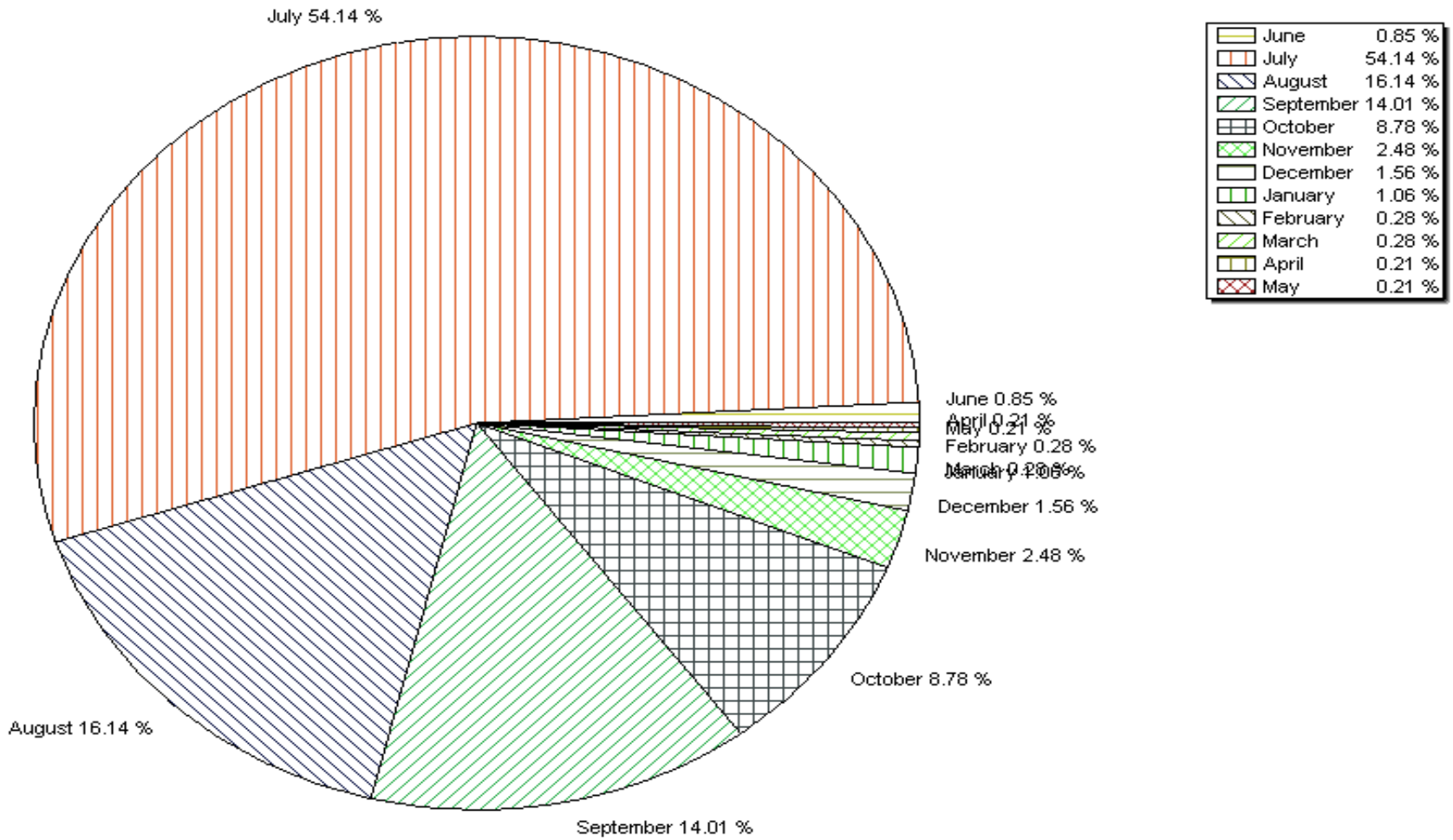
Sub-Division : Upper Wainganga SD, Nagpur



Monthly Runoff for the Year : 2016-2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

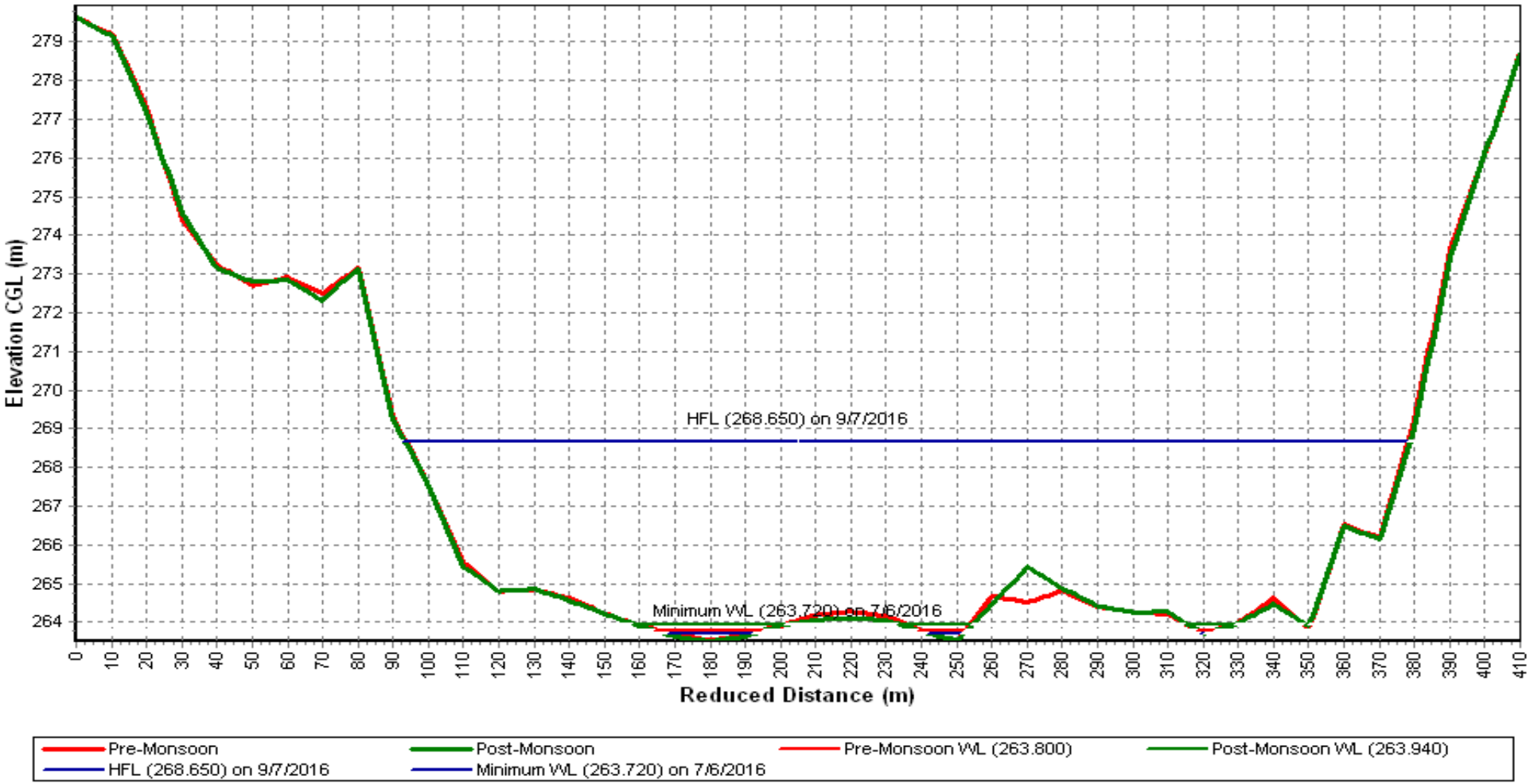
Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

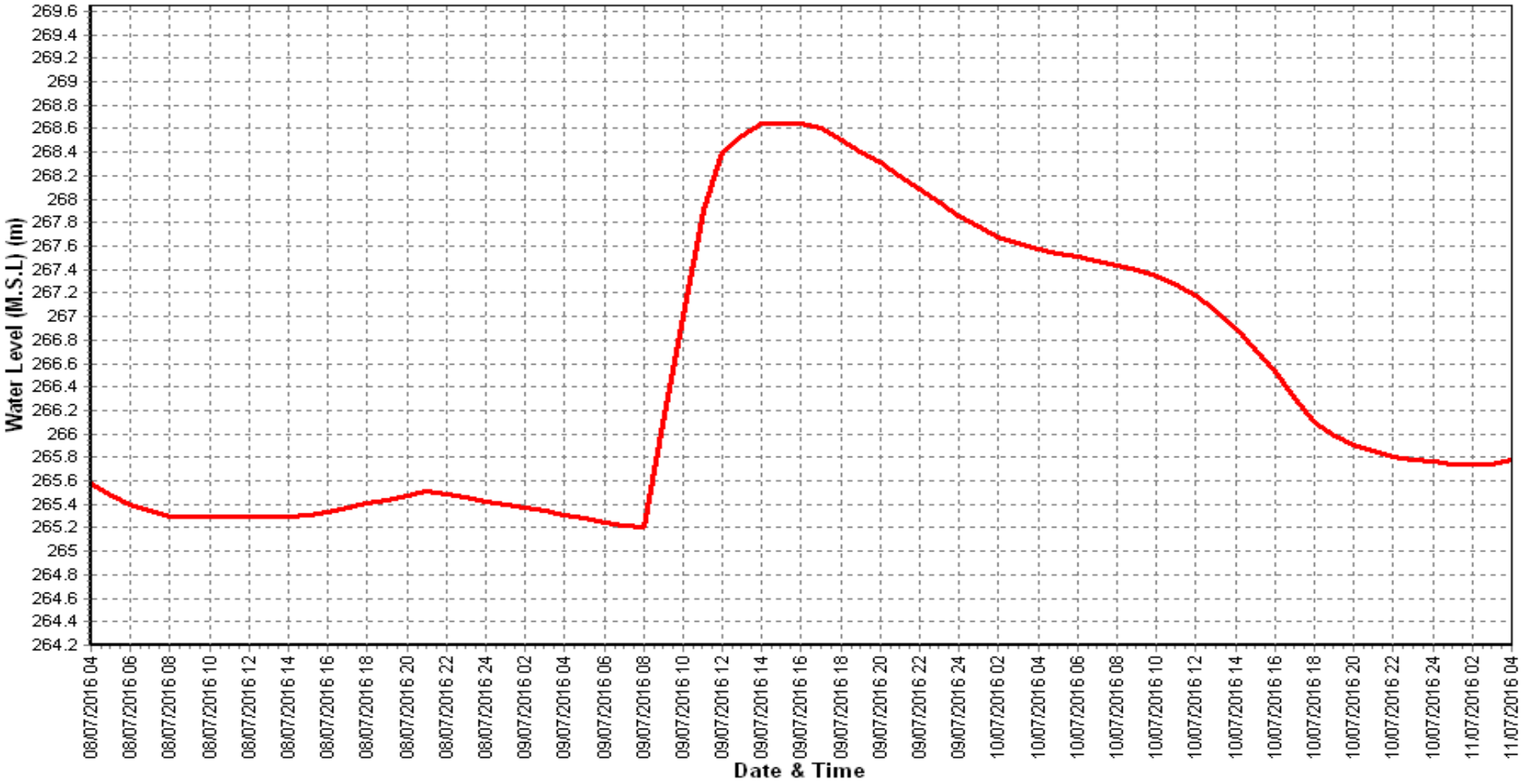
Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

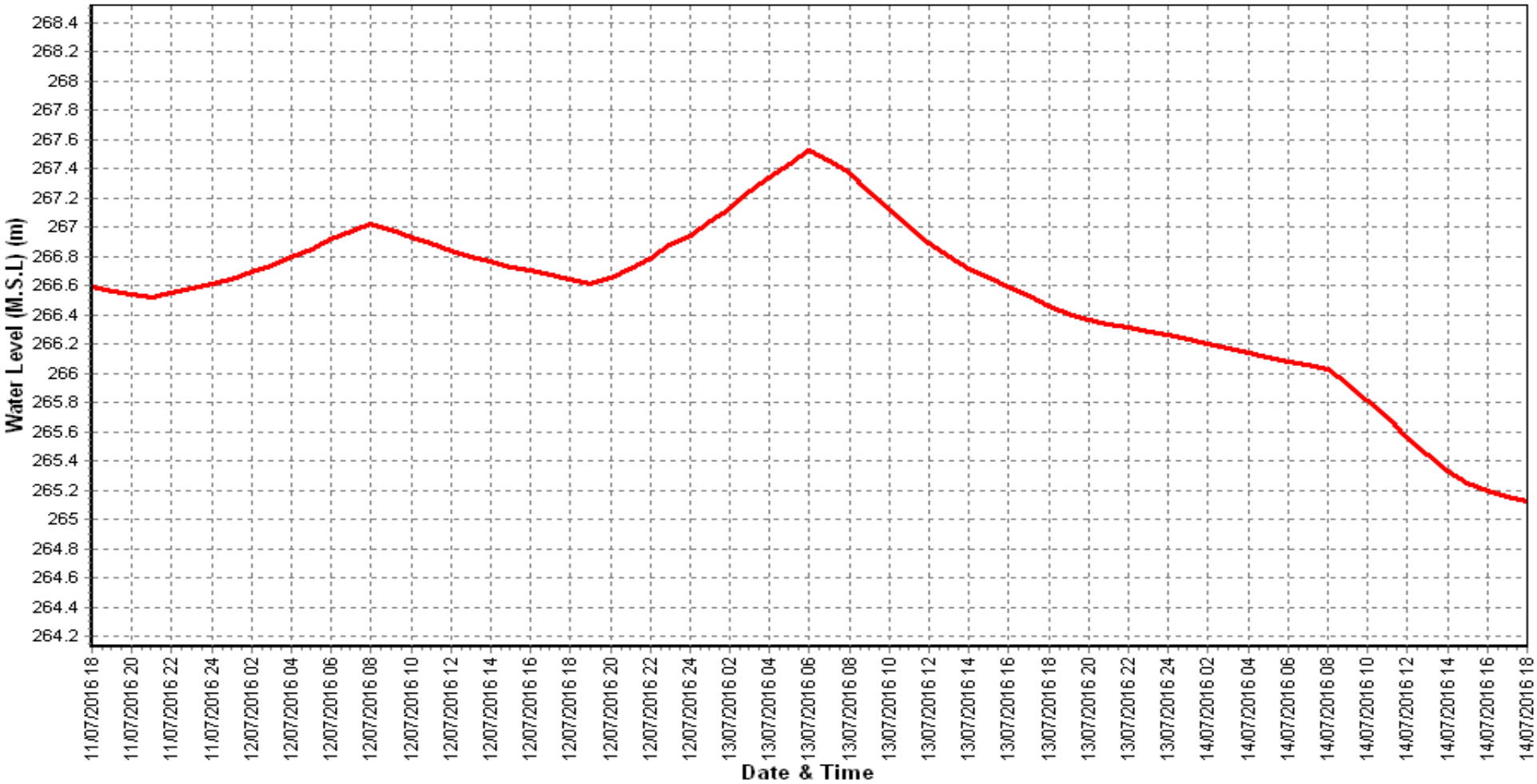


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

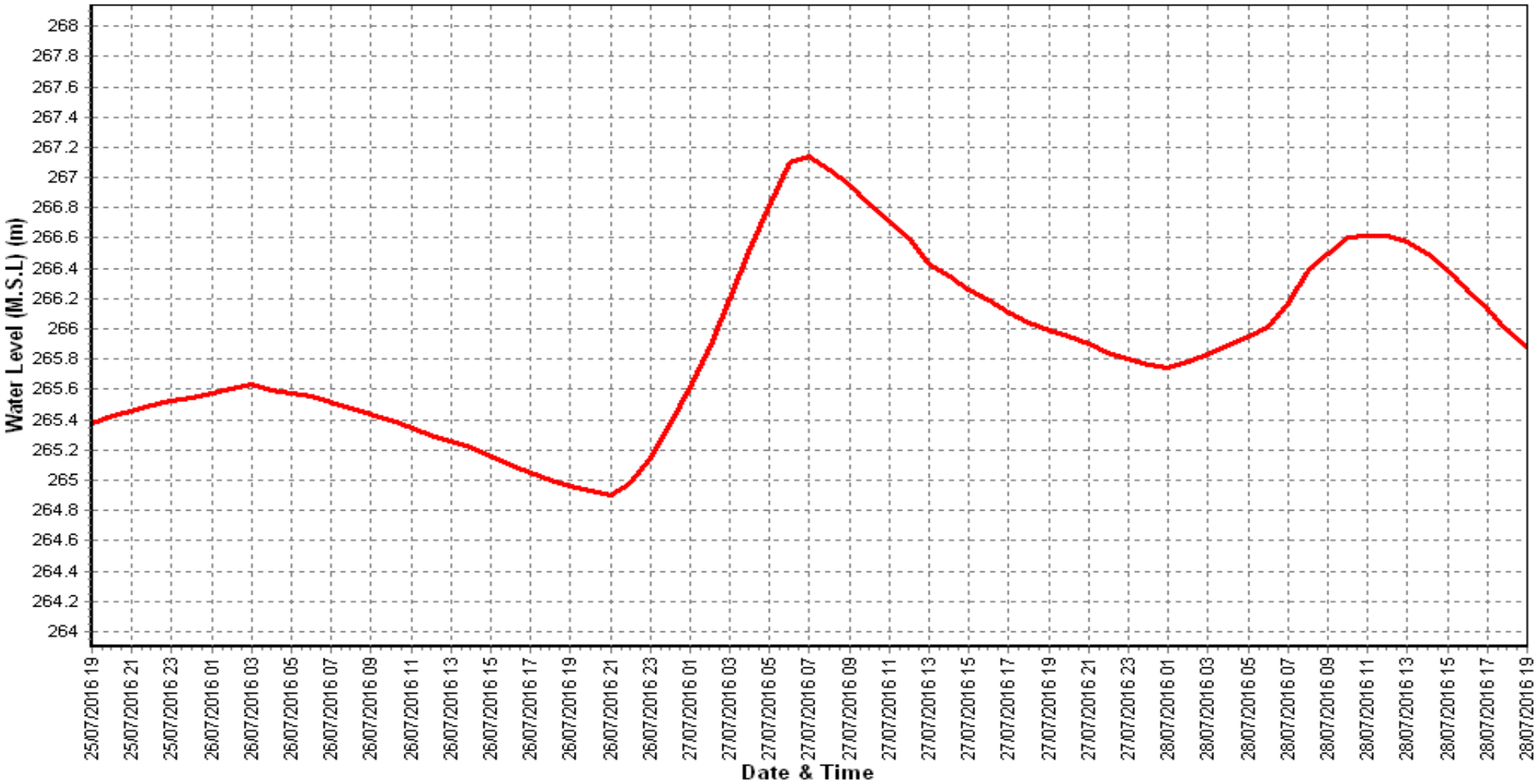


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : SATRAPUR (AGH4BF6) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: RAMAKONA**		**Code**	**: AGH4BQ3**	
State	: Madhya Pradesh		District	Chhindwara	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: Khanan		Local River	: Khanan	
Division	: Wainganga Div., Nagpur		Sub-Division	: Upper Wainganga SD, Nagpur	
Drainage Area	: 2500 Sq. Km.		Bank	: Left	
Latitude	: 21°43'12"		Longitude	: 78°49'27"	
Zero of Gauge (m)	: 338 (m.s.l) 336.38 (m.s.l) 335.95 (m.s.l)		01.01.1985 01.06.1996 01.06.2002	- 31.05.1996 - 31.05.2002	
	Opening Date		Closing Date		
Gauge	: 13.02.1986				
Discharge	: 21.11.1986		**HFL During 2016-17**	**: 342.950 Meter**	
			Corres.Discharge	**: 1097.5 Cumecs(Estimated)**	
Sediment	: 12.11.2014		**Date & Time of Occurance**	**: 09.07.2016 : 02.00 Hrs.**	
Water Quality	: 01.06.2014				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	480.0	342.195	28.08.1987	0.000		01.06.1987
1988-1989	450.0	342.500	22.08.1988	0.004	339.910	03.05.1989
1989-1990	710.0	343.540	13.06.1989	0.001	339.930	08.03.1990
1990-1991	1253	344.545	23.08.1990	0.000	339.910	22.03.1991
1991-1992	3560	349.500	30.07.1991	0.000	339.340	26.01.1992
1992-1993	1099	344.220	16.08.1992	0.000	339.395	20.02.1993
1993-1994	1044	344.740	16.07.1993	0.000	339.660	06.05.1994
1994-1995	2490	347.000	06.09.1994	0.000	339.485	09.05.1995
1995-1996	372.5	342.560	02.09.1995	0.076	339.670	22.05.1996
1996-1997	452.6	341.108	27.07.1996	0.029	338.005	30.06.1996
1997-1998	2126	344.980	25.07.1997	0.100	338.130	18.06.1997
1998-1999	1510	343.590	15.09.1998	0.117	338.005	30.05.1999
1999-2000	996.9	343.110	18.09.1999	0.210	338.195	20.05.2000
2000-2001	533.2	341.218	19.07.2000	0.103	338.190	20.04.2001
2001-2002	906.5	341.680	15.08.2001	0.042	338.225	05.05.2002
2002-2003	638.1	340.950	25.06.2002	0.055	337.675	29.05.2003
2003-2004	1537	342.950	27.07.2003	0.047	337.690	11.06.2003
2004-2005	516.4	340.570	23.08.2004	0.038	337.550	17.05.2005
2005-2006	2049	344.250	15.09.2005	0.042	337.555	23.06.2005
2006-2007	1362	341.350	14.08.2006	0.058	337.400	09.05.2007

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2007-2008	3071	344.150	08.07.2007	0.029	337.405	10.06.2007
2008-2009	87.78	338.710	11.08.2008	0.051	337.340	25.05.2009
2009-2010	2238	343.970	20.07.2009	0.058	337.340	16.06.2009
2010-2011	416.3	340.090	19.08.2010	0.000	337.230	15.06.2010
2011-2012	315.4	339.880	28.08.2011	0.104	337.200	30.05.2012
2012-2013	4548	346.450	07.08.2012	0.066	336.700	30.05.2013
2013-2014	3027	348.550	23.08.2013	0.067	336.700	01.06.2013
2014-2015	2627	342.500	23.07.2014	0.000	336.900	25.05.2015
2015-2016	366.6	340.300	05.08.2015	0.000	336.790	06.04.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	336.760	0.000	337.390	26.22 #	337.830	56.51	337.885	72.88	337.360	28.27	337.010	4.578
2	336.760	0.000	337.580	41.54 #	339.050	190.9	337.545	38.47	337.710	53.40 *	337.000	3.366
3	336.760	0.000	338.400	132.1 *	338.170	99.53	337.955	72.82	337.450	36.09	336.990	3.705
4	336.760	0.000	338.140	78.57	338.225	107.4	337.660	48.71 *	337.395	31.38	336.990	3.295
5	336.760	0.000	337.620	33.53	338.020	84.05	337.490	33.98 *	337.340	26.29	336.980	3.273
6	336.760	0.000	337.515	27.47	338.215	96.79	337.425	28.01	337.300	23.82	336.960	2.474 *
7	336.760	0.000	338.960	212.5 *	338.020	85.67 *	337.365	25.49	337.300	22.27	336.970	3.078
8	336.760	0.000	338.330	97.35	338.250	112.9 #	337.335	23.25	337.310	20.55 #	336.970	2.559
9	336.760	0.000	341.370	708.0	337.970	81.50	337.305	21.75	337.910	73.60 *	336.960	2.450
10	336.770	0.000	339.170	246.1 *	337.890	73.96	337.280	20.53	337.475	27.77	336.960	2.421
11	336.770	0.000	338.250	117.7	337.865	77.02	337.250	16.63 *	337.340	22.62 *	336.950	2.379
12	336.770	0.000	339.310	321.1	337.770	58.08	337.235	18.54	337.280	18.55 *	336.950	2.345
13	336.770	0.000	339.090	231.6	337.725	48.74	337.220	14.78 *	337.240	16.30	336.940	1.864 *
14	336.770	0.000	338.230	110.4 #	337.690	51.50 *	337.210	14.13	337.210	14.62	336.940	1.864 *
15	336.770	0.000	337.900	72.54 #	337.660	48.71 *	337.200	12.21	337.170	13.48	336.930	1.826
16	336.770	0.000	337.720	54.35 #	337.815	66.29	337.190	13.17	337.160	11.32 *	336.920	1.319 #
17	336.770	0.000	337.770	59.22 *	337.680	53.58	337.210	14.41	337.150	11.19	336.920	1.319 #
18	336.770	0.000	337.635	54.05	337.625	49.44	337.220	14.78 *	337.140	10.32	336.920	1.319 #
19	337.050	0.000	337.690	58.44	337.545	44.32	337.285	18.14	337.120	10.05	336.900	0.781
20	336.870	0.000	337.545	38.40	337.510	40.31	337.265	14.65	337.110	8.919	336.900	0.845 *
21	336.840	0.000	337.520	36.60	337.520	36.44 *	337.970	65.74	337.100	8.620	336.920	1.337
22	336.820	0.000	337.740	56.28 #	337.500	38.61	337.470	36.07	337.100	8.397	336.920	1.182
23	336.800	0.000	337.445	31.43	337.450	36.07	337.430	26.41	337.090	7.720 *	336.920	1.240
24	336.800	0.000	337.580	41.54 *	337.615	41.57	337.330	22.48	337.080	7.189	336.910	0.802
25	336.860	0.000	337.590	42.42 #	337.445	33.49	338.560	153.7 *	337.060	6.865	336.910	1.085
26	336.820	0.000	338.165	95.32	337.400	29.86	337.765	61.61	337.050	6.321	336.910	0.912
27	337.290	19.21 #	338.180	104.3 #	337.480	33.33	337.580	39.65	337.040	5.308	336.910	1.072 *
28	337.290	19.21 #	337.940	67.18	337.690	51.50 *	337.475	37.63	337.030	5.447	336.910	0.905
29	337.410	27.71 #	338.630	135.5	337.670	44.23	337.365	26.80	337.030	5.785	336.900	0.845 #
30	337.200	13.59 #	337.995	72.51	337.525	36.32	337.300	19.87 #	337.030	5.043 *	336.900	0.659
31			337.970	80.10 *	337.505	34.16			337.020	4.727		
Ten-Daily Mean												
I Ten-Daily	336.761	0.000	338.448	160.3	338.164	98.93	337.524	38.59	337.455	34.34	336.979	3.120
II Ten-Daily	336.808	0.000	338.114	111.8	337.689	53.80	337.228	15.14	337.192	13.74	336.927	1.586
III Ten-Daily	337.013	7.972	337.887	69.39	337.527	37.78	337.625	48.99	337.057	6.493	336.911	1.004
Monthly												
Min.	336.760	0.000	337.390	26.22	337.400	29.86	337.190	12.21	337.020	4.727	336.900	0.659
Max.	337.410	27.71	341.370	708.0	339.050	190.9	338.560	153.7	337.910	73.60	337.010	4.578
Mean	336.861	2.657	338.141	112.4	337.785	62.67	337.459	34.24	337.229	17.81	336.939	1.903

Annual Runoff in MCM = 618 Annual Runoff in mm = 247

Peak Observed Discharge = 708.0 cumecs on 09/07/2016 Corres. Water Level :341.37 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016 Corres. Water Level :336.76 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	336.900	0.646	336.850	0.098 *	336.840	0.083	336.840	0.000	336.800	0.000	336.780	0.000
2	336.900	0.500	336.850	0.106	336.840	0.080	336.840	0.000	336.800	0.000	336.780	0.000
3	336.890	0.453	336.850	0.110	336.840	0.082	336.840	0.000	336.800	0.000	336.780	0.000
4	336.890	0.473 *	336.850	0.104	336.840	0.083	336.840	0.000	336.800	0.000	336.780	0.000
5	336.890	0.444	336.850	0.106	336.840	0.078 *	336.840	0.000	336.800	0.000	336.780	0.000
6	336.880	0.406	336.850	0.106	336.840	0.084	336.830	0.000	336.790	0.000	336.780	0.000
7	336.880	0.418	336.850	0.093	336.840	0.079	336.830	0.000	336.790	0.000	336.780	0.000
8	336.880	0.403	336.850	0.098 *	336.840	0.080	336.820	0.000	336.790	0.000	336.780	0.000
9	336.880	0.392	336.850	0.090	336.840	0.076	336.820	0.000	336.790	0.000	336.780	0.000
10	336.870	0.372	336.850	0.087	336.840	0.076	336.820	0.000	336.790	0.000	336.780	0.000
11	336.870	0.339 *	336.850	0.089	336.840	0.072	336.820	0.000	336.790	0.000	336.780	0.000
12	336.870	0.339 *	336.850	0.085	336.840	0.000	336.820	0.000	336.790	0.000	336.780	0.000
13	336.870	0.368	336.850	0.080	336.840	0.000	336.820	0.000	336.790	0.000	336.780	0.000
14	336.870	0.291	336.850	0.081	336.840	0.000	336.820	0.000	336.790	0.000	336.780	0.000
15	336.870	0.339 #	336.850	0.098 *	336.840	0.000	336.820	0.000	336.790	0.000	336.780	0.000
16	336.870	0.162	336.850	0.081	336.840	0.000	336.810	0.000	336.790	0.000	336.780	0.000
17	336.870	0.154	336.850	0.080	336.840	0.000	336.810	0.000	336.790	0.000	336.780	0.000
18	336.870	0.145 *	336.850	0.080	336.840	0.000	336.810	0.000	336.790	0.000	336.780	0.000
19	336.870	0.152	336.850	0.079	336.840	0.000	336.810	0.000	336.790	0.000	336.780	0.000
20	336.870	0.145	336.850	0.076	336.840	0.000	336.800	0.000	336.790	0.000	336.780	0.000
21	336.860	0.121 #	336.840	0.072	336.840	0.000	336.800	0.000	336.790	0.000	336.780	0.000
22	336.860	0.130	336.840	0.078 *	336.840	0.000	336.800	0.000	336.790	0.000	336.780	0.000
23	336.860	0.127	336.840	0.070	336.840	0.000	336.800	0.000	336.790	0.000	336.770	0.000
24	336.860	0.123	336.840	0.067	336.840	0.000	336.800	0.000	336.780	0.000	336.770	0.000
25	336.860	0.121 *	336.840	0.090	336.840	0.000	336.800	0.000	336.780	0.000	336.770	0.000
26	336.850	0.115	336.840	0.078 *	336.840	0.000	336.800	0.000	336.780	0.000	336.770	0.000
27	336.850	0.112	336.840	0.088	336.840	0.000	336.800	0.000	336.780	0.000	336.770	0.000
28	336.850	0.112	336.840	0.087	336.840	0.000	336.800	0.000	336.780	0.000	336.770	0.000
29	336.850	0.111	336.840	0.078 *			336.800	0.000	336.780	0.000	336.770	0.000
30	336.850	0.110	336.840	0.087			336.800	0.000	336.780	0.000	336.770	0.000
31	336.850	0.110	336.840	0.082			336.800	0.000			336.770	0.000
Ten-Daily Mean												
I Ten-Daily	336.886	0.451	336.850	0.100	336.840	0.080	336.832	0.000	336.795	0.000	336.780	0.000
II Ten-Daily	336.870	0.244	336.850	0.083	336.840	0.007	336.814	0.000	336.790	0.000	336.780	0.000
III Ten-Daily	336.855	0.118	336.840	0.080	336.840	0.000	336.800	0.000	336.783	0.000	336.772	0.000
Monthly												
Min.	336.850	0.110	336.840	0.067	336.840	0.000	336.800	0.000	336.780	0.000	336.770	0.000
Max.	336.900	0.646	336.850	0.110	336.840	0.084	336.840	0.000	336.800	0.000	336.780	0.000
Mean	336.870	0.266	336.846	0.087	336.840	0.031	336.815	0	336.789	0	336.777	0

Peak Computed Discharge = 246.1 cumecs on 10/07/2016 Corres. Water Level :339.17 m

Lowest Computed Discharge = 0.078 cumecs on 22/01/2017 Corres. Water Level :336.84 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

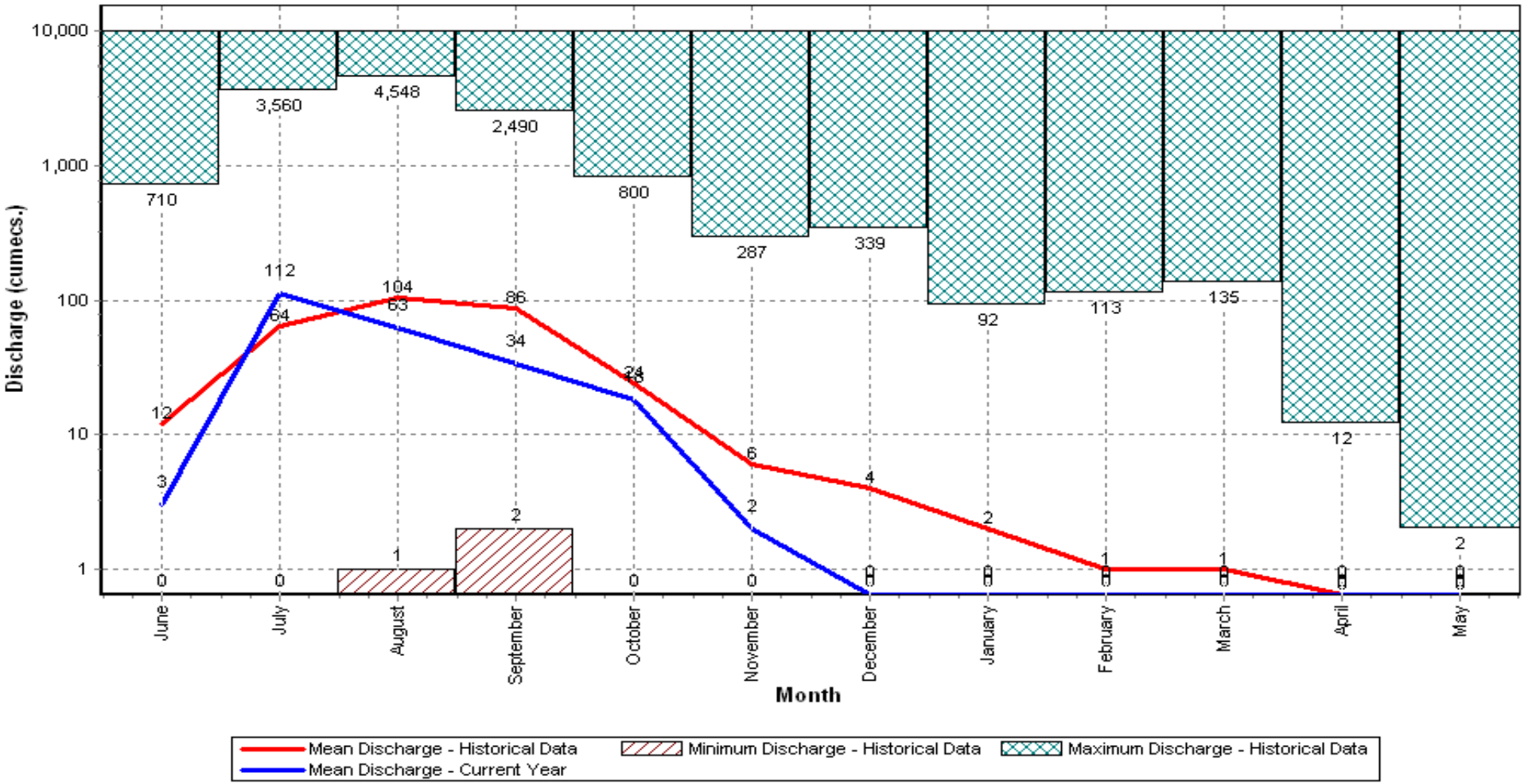
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : RAMAKONA (AGH4BQ3) **Data considered : 1987-2017** **Division : Wainganga Div., Nagpur**

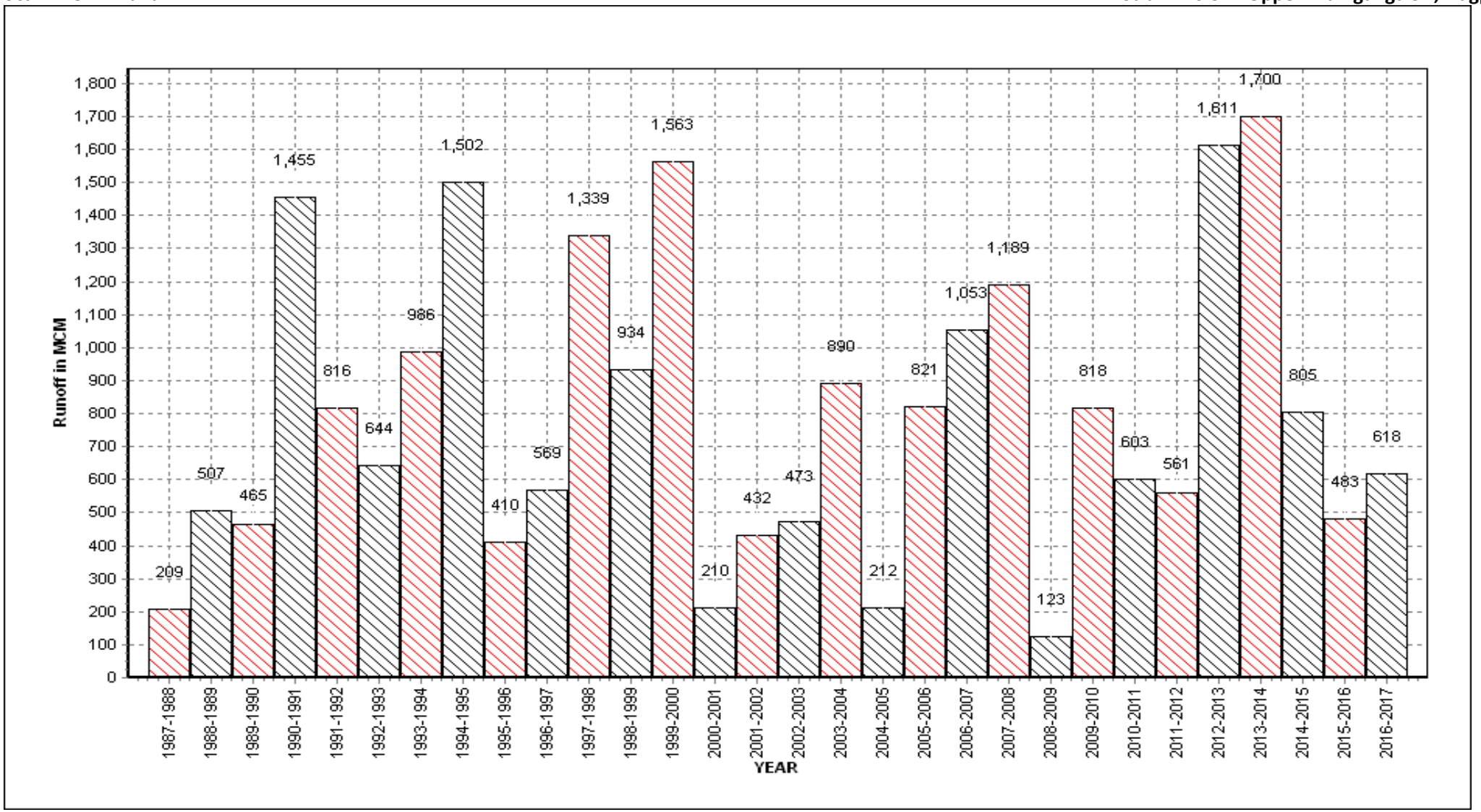
Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1987 - 2017

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Note: Missing values have not been considered while arriving at Annual Runoff

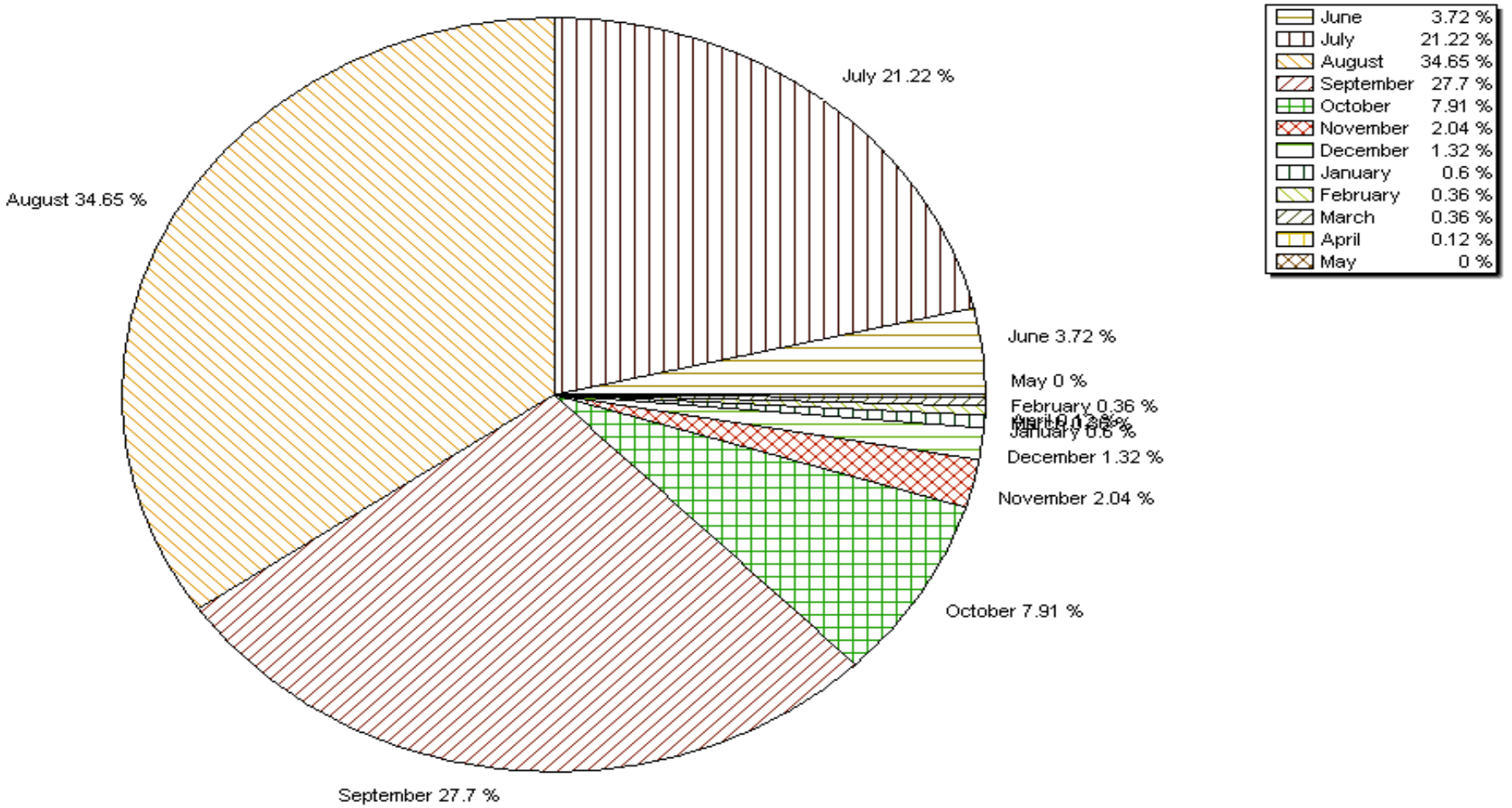
Monthly Average Runoff based on period : 1987-2016

Station Name : RAMAKONA (AGH4BQ3)

Local River : Khanan

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



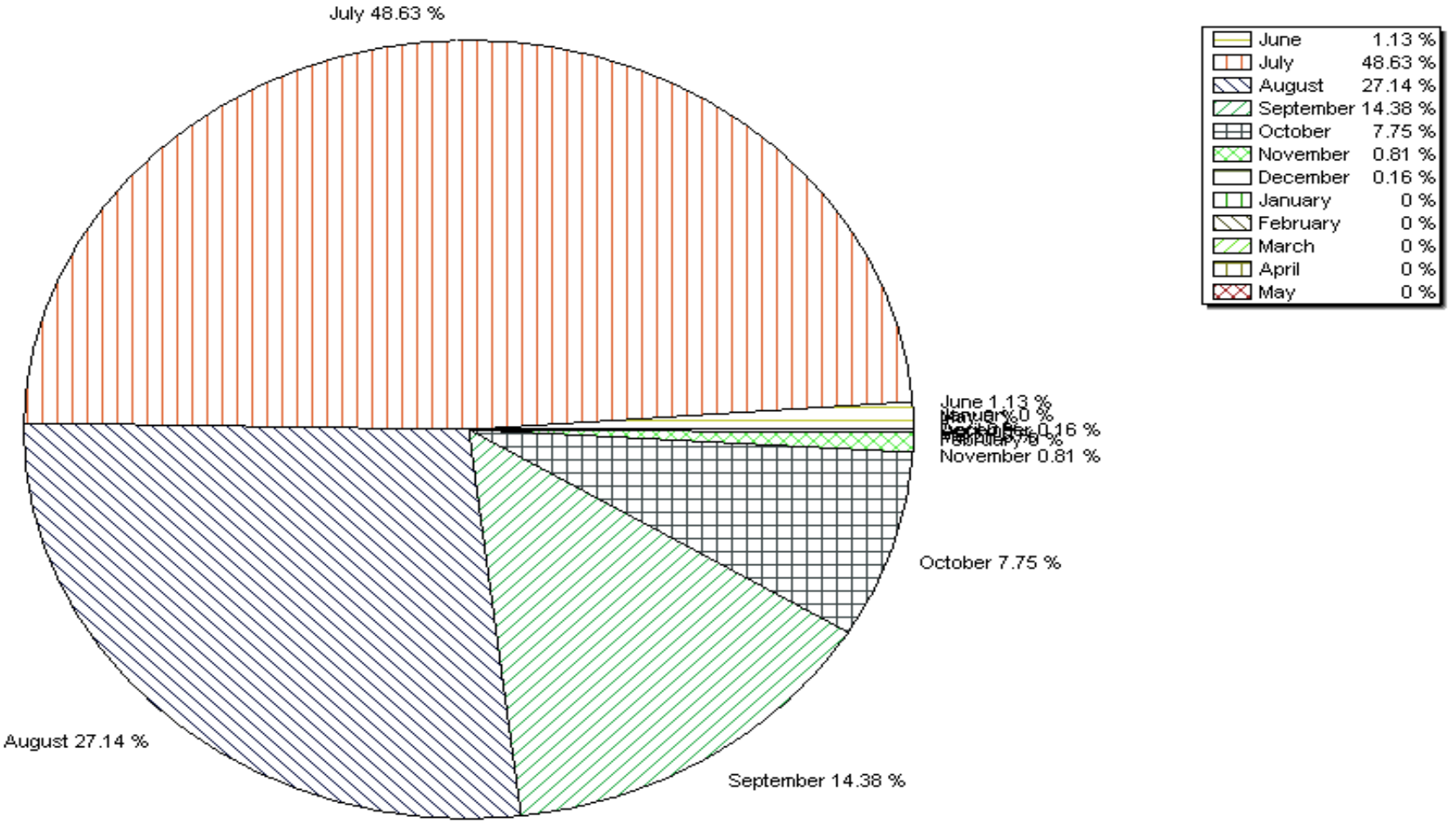
Monthly Runoff for the Year : 2016-2017

Station Name : RAMAKONA (AGH4BQ3)

Division : Wainganga Div., Nagpur

Local River : Khanan

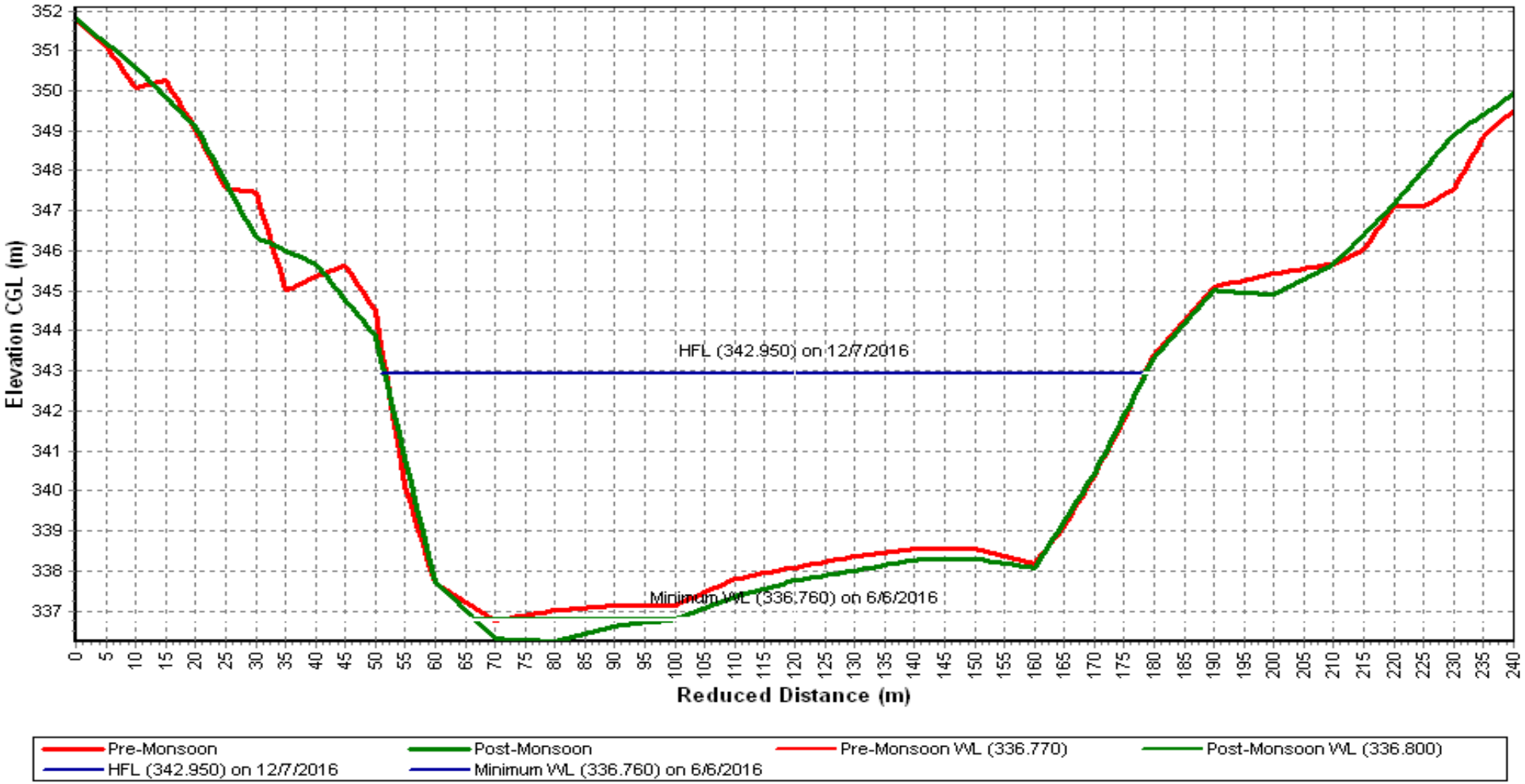
Sub-Division : Upper Wainganga SD, Nagpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

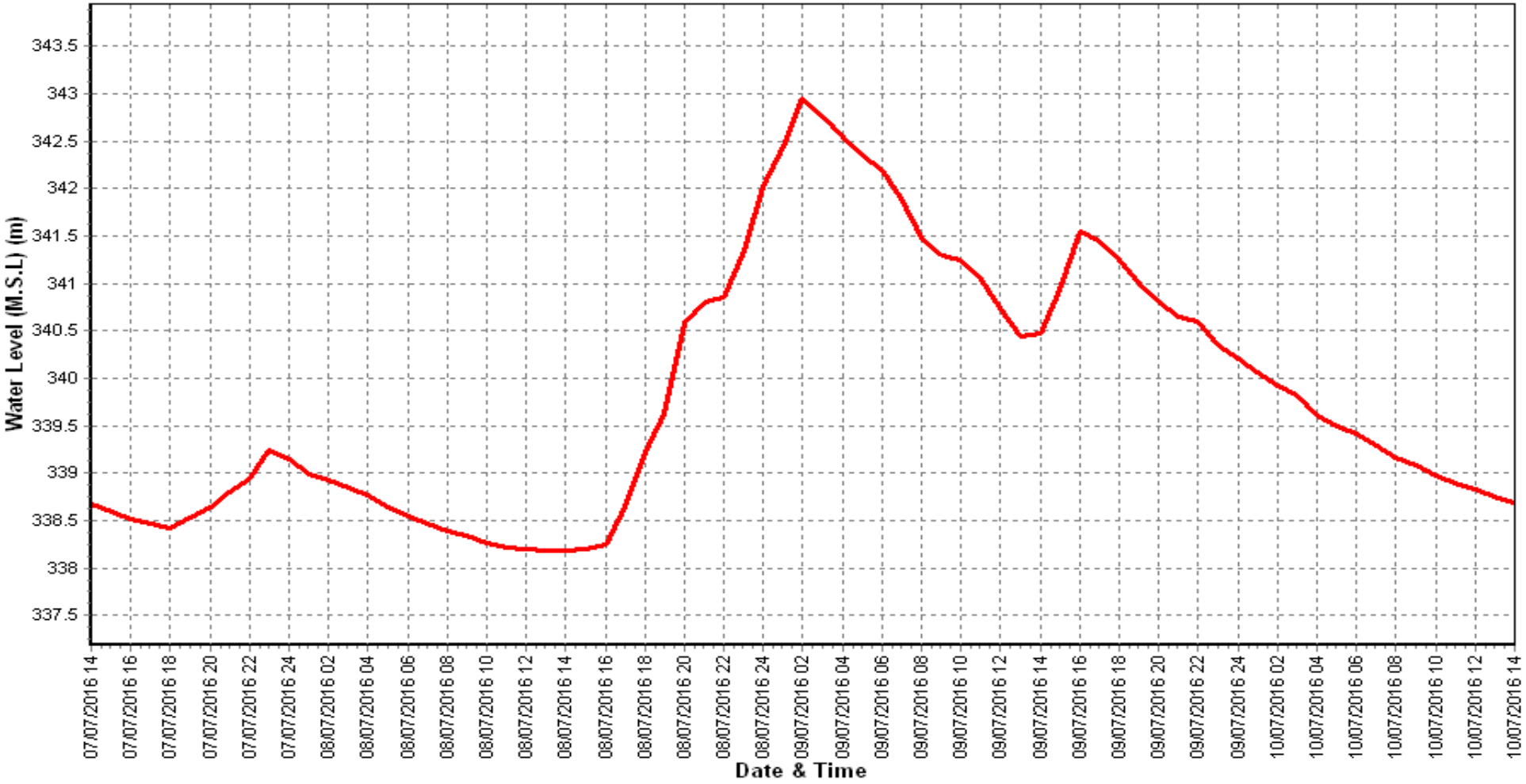
Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

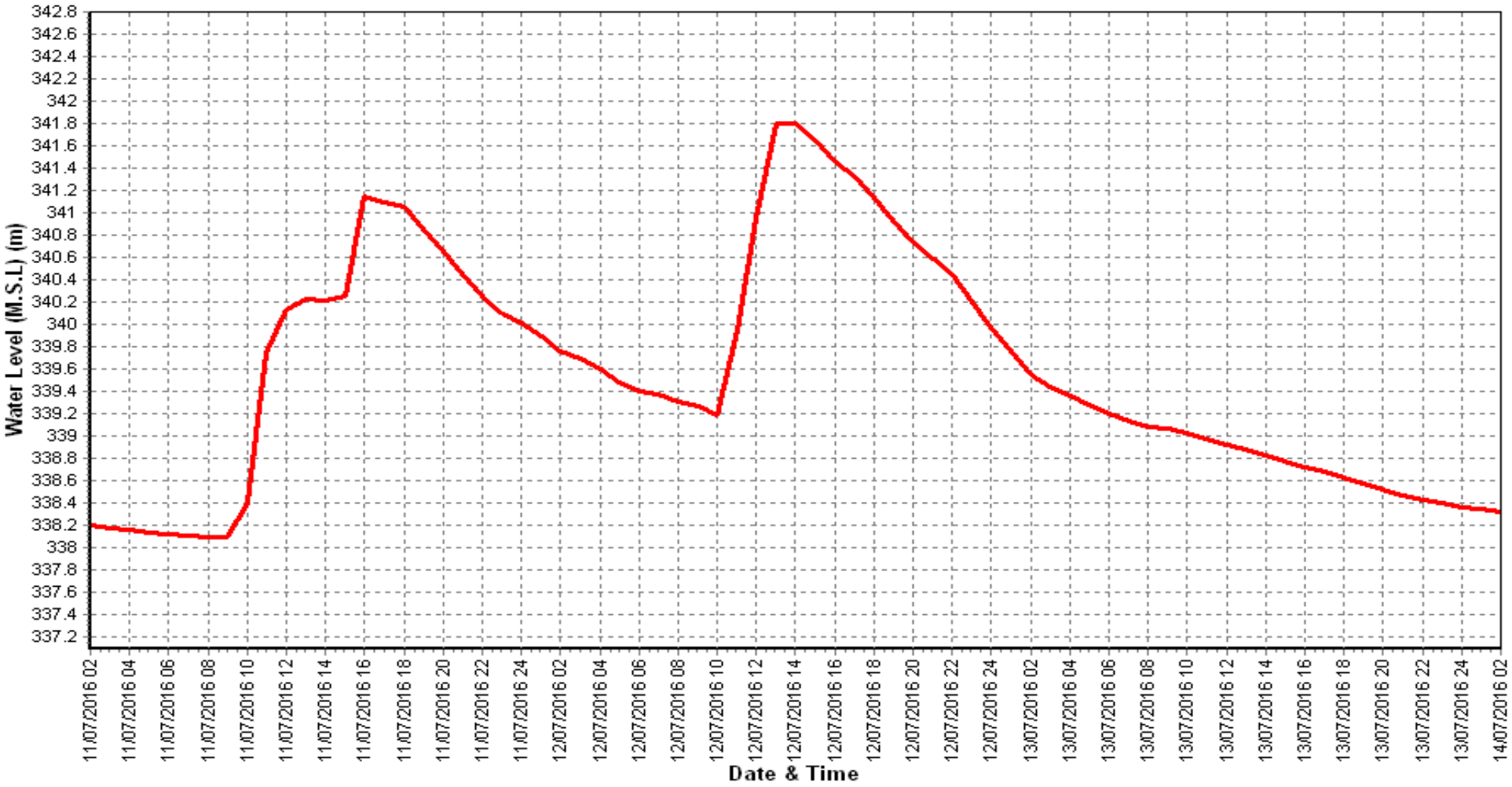


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**

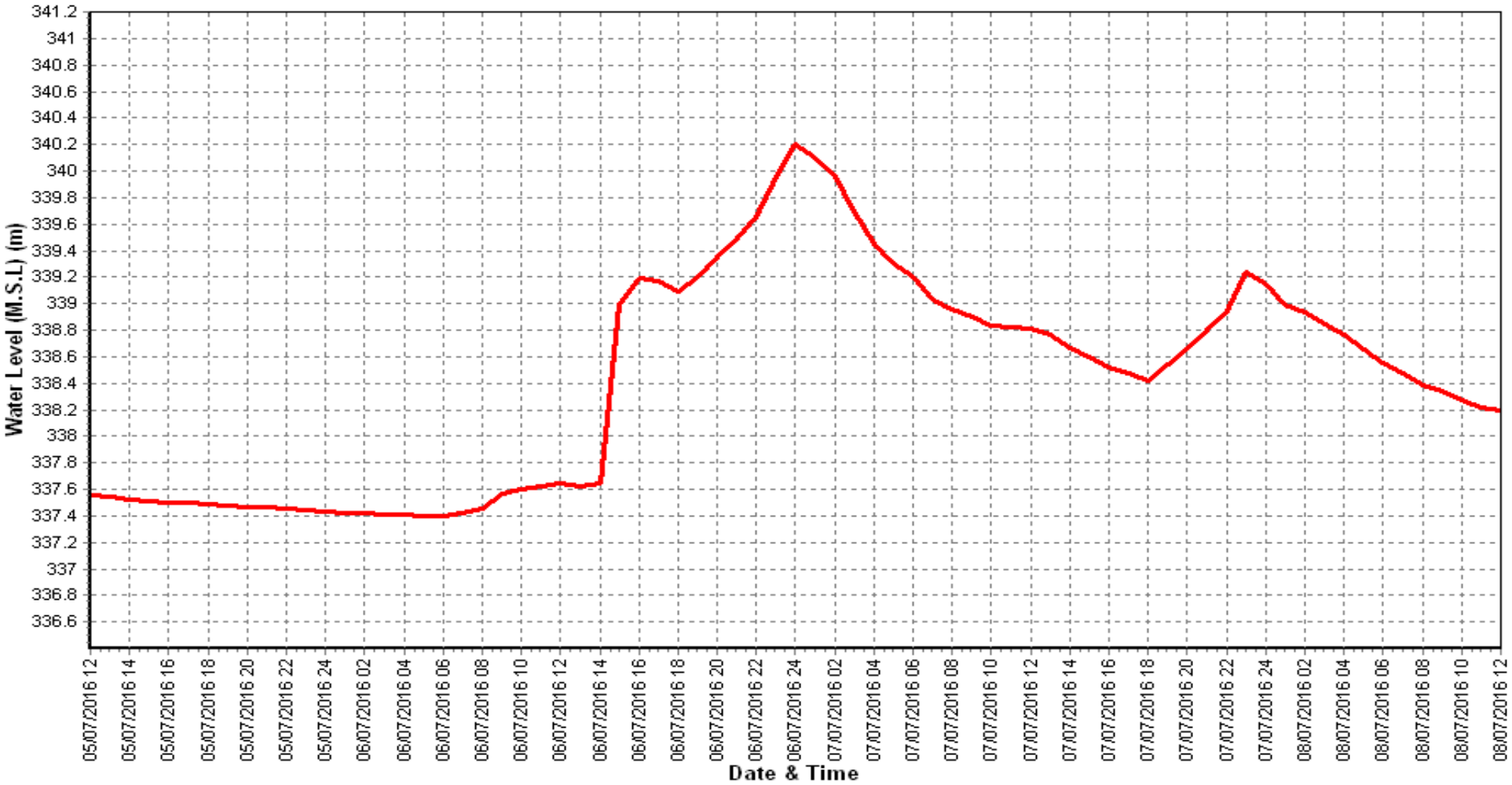


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : RAMAKONA (AGH4BQ3) **Division : Wainganga Div., Nagpur**

Local River : Khanan **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2016-2017**
Site	:	**RAJEGAON**	**Code**	:	**AGH4MC3**
State	:	Madhya Pradesh	District		Balaghat
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Pranhita	Sub Tributary	:	Wainganga
Sub-Sub Tributary	:	Bagh	Local River	:	Bagh
Division	:	Wainganga Div., Nagpur	Sub-Division	:	Upper Wainganga SD, Nagpur
Drainage Area	:	5380 Sq. Km.	Bank	:	Right
Latitude	:	21°37'32"	Longitude	:	80°15'14"
Zero of Gauge (m)	:	272 (m.s.l)	01.12.1985		
		Opening Date	Closing Date		
Gauge	:	06.12.1985			
Discharge	:	26.07.1986	**HFL During 2016-17**	:	**281.300 Meter**
			Corres.Discharge	:	**3661.502 Cumecs(Estimated)**
Sediment	:	01.09.2014	**Date & Time of**	:	**06.08.2016**
			Occurance	:	**22.00 Hrs.**
Water Quality	:	01.02.2012			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	3095	280.670	15.08.1986	0.000	0.000	15.07.1986
1987-1988	323.6	276.100	24.08.1987	0.000	273.380	26.04.1988
1988-1989	2192	279.465	01.08.1988	0.060	273.390	27.05.1989
1989-1990	1176	277.625	25.08.1989	0.000	273.520	11.04.1990
1990-1991	3785	280.730	22.07.1990	0.000	0.000	02.06.1990
1991-1992	2739	280.535	24.08.1991	0.000		26.04.1992
1992-1993	3248	280.480	21.08.1992	0.000		02.04.1993
1993-1994	1905	279.530	16.07.1993	0.000		07.05.1994
1994-1995	7431	283.035	06.09.1994	0.000		12.06.1994
1995-1996	3985	280.695	25.07.1995	0.000		10.05.1996
1996-1997	928.7	277.420	17.08.1996	0.000		22.04.1997
1997-1998	4478	282.170	30.07.1997	0.000		14.06.1997
1998-1999	4232	282.400	13.09.1998	0.000	273.910	06.04.1999
1999-2000	3612	281.660	18.09.1999	0.000	273.940	20.03.2000
2000-2001	1892	279.730	20.07.2000	0.000	274.360	25.01.2001
2001-2002	2532	280.025	19.07.2001	0.000		25.01.2002
2002-2003	3973	281.830	18.08.2002	0.000	274.480	25.01.2003
2003-2004	2517	280.300	28.07.2003	0.000	273.290	13.04.2004
2004-2005	603.9	276.630	10.08.2004	0.000	273.170	03.05.2005
2005-2006	6891	284.200	15.09.2005	0.000		19.06.2005
2006-2007	5519	284.070	14.08.2006	0.000		04.05.2007
2007-2008	2132	279.505	08.07.2007	0.020	273.260	25.06.2007

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2008-2009	2646	279.945	11.08.2008	0.001	273.010	03.04.2009
2009-2010	1314	277.630	15.07.2009	0.043	273.100	14.03.2010
2010-2011	2427	279.455	08.09.2010	0.000		03.04.2011
2011-2012	2907	279.780	08.09.2011	0.000		06.04.2012
2012-2013	2567	279.620	05.09.2012	0.000		25.05.2013
2013-2014	3000	280.795	26.07.2013	0.000		01.06.2013
2014-2015	9682	284.260	23.07.2014	0.000	272.800	03.05.2015
2015-2016	1035	277.450	18.09.2015	0.000	273.280	08.02.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	272.000	0.000	273.680	25.77	274.800	109.0	275.400	232.4	275.520	261.8	273.550	21.14
2	272.000	0.000	273.400	8.527 #	275.840	368.6	275.060	182.2	275.160	195.4 *	273.540	19.90
3	272.000	0.000	273.340	6.701 *	276.830	684.0	275.220	198.4	274.855	134.6	273.510	18.65
4	272.000	0.000	273.670	24.31	276.570	609.7	275.620	293.7 *	274.575	108.2	273.510	18.94
5	272.000	0.000	273.420	9.192 #	276.190	490.3	275.120	187.9 *	274.535	98.77	273.490	16.22
6	272.000	0.000	274.580	102.5 *	280.210	2521	274.870	135.8	274.425	92.68	273.490	15.42 *
7	272.000	0.000	274.850	134.9	280.300	2750 *	274.550	102.1	275.190	203.5	273.480	15.40
8	272.000	0.000	275.845	301.2	277.400	951.3	274.380	84.86	275.110	177.4	273.460	14.26
9	272.000	0.000	276.720	656.0	275.845	329.2	274.220	57.42	275.740	323.0 *	273.450	13.72
10	272.000	0.000	275.800	338.3 *	275.455	254.2	274.160	54.23	275.655	318.4	273.430	13.29
11	272.000	0.000	275.090	184.8	275.290	220.3	274.150	54.48 *	275.060	177.0 *	273.440	12.54
12	272.000	0.000	275.130	187.8	275.330	223.4	278.805	1747	274.740	124.8 *	273.440	12.42
13	272.000	0.000	274.800	129.1	275.030	180.3	278.950	1747 *	274.455	101.0	273.440	13.05 *
14	272.000	0.000	274.740	121.1	275.030	171.7 *	278.120	1363	274.355	84.85	273.440	13.05 *
15	272.000	0.000	274.330	66.68	274.940	156.2 *	275.890	338.8	274.230	65.14	273.440	12.67
16	272.000	0.000	273.995	44.71	274.805	130.0	275.335	226.1	274.140	65.00 *	273.440	12.63
17	272.000	0.000	273.920	35.54 *	274.590	111.8	274.890	137.1	274.070	53.18	273.430	11.05
18	272.000	0.000	274.555	103.7	274.480	96.49	274.730	123.4 *	274.010	49.83	273.420	12.75
19	272.000	0.000	274.630	94.96	274.740	123.3	274.610	105.9	273.970	45.59	273.420	12.57
20	272.000	0.000	274.760	116.9	274.550	98.58	274.895	136.2	273.930	47.54	273.410	11.72 *
21	272.000	0.000	274.310	62.26	274.380	78.07 *	275.390	228.4	273.920	46.48	273.400	10.65
22	272.000	0.000	275.155	165.5	274.250	57.80	274.820	128.2	273.920	47.43	273.400	10.53
23	273.080	1.554	275.935	349.2	274.130	54.65	274.795	130.5	273.920	44.28 *	273.390	9.876
24	273.030	1.139	274.930	154.6 *	274.440	93.93	274.445	94.01	273.910	43.48	273.380	9.570
25	273.040	1.039	274.680	98.64	274.265	59.95	274.350	74.72 *	273.840	37.56	273.380	9.583
26	273.020	0.860 *	274.590	96.27	274.750	123.4	275.530	284.8	273.870	41.12	273.380	9.549
27	272.980	0.459	274.340	61.95	275.200	203.8	276.085	476.4	273.800	32.40	273.360	9.675 *
28	273.000	0.691 #	274.095	44.96	275.230	208.9 *	275.990	461.5	273.785	32.48	273.340	10.03
29	274.600	103.2	274.030	43.67	274.650	112.6	275.720	332.3	273.720	26.10	273.330	8.706
30	274.325	72.71	274.350	62.43	274.460	94.86	276.320	571.2	273.660	25.01 *	273.330	8.635
31			274.200	59.20 *	275.065	210.2			273.580	22.18		
Ten-Daily Mean												
I Ten-Daily	272.000	0.000	274.530	160.7	276.944	906.7	274.860	152.9	275.077	191.4	273.491	16.69
II Ten-Daily	272.000	0.000	274.595	108.5	274.879	151.2	276.038	597.8	274.296	81.39	273.432	12.45
III Ten-Daily	273.384	18.16	274.601	109.0	274.620	118.0	275.344	278.2	273.811	36.23	273.369	9.680
Monthly												
Min.	272.980	0.000	273.340	6.701	274.130	54.65	274.150	54.23	273.580	22.18	273.330	8.635
Max.	274.600	103.2	276.720	656.0	280.300	2750	278.950	1747	275.740	323.0	273.550	21.14
Mean	273.384	6.054	274.576	125.5	275.453	383.1	275.414	343	274.376	100.8	273.431	12.94

Annual Runoff in MCM = 2618 Annual Runoff in mm = 487

Peak Observed Discharge = 2521 cumecs on 06/08/2016 Corres. Water Level :280.21 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	273.320	9.221	273.280	5.047 *	273.220	2.457	273.090	0.346	273.110	0.547 #	272.000	0.000
2	273.320	8.719	273.280	5.568	273.220	2.404	273.080	0.206 #	273.110	0.547 *	272.000	0.000
3	273.320	8.758	273.280	5.468	273.220	2.434	273.070	0.133 #	273.110	0.547 #	273.290	8.173
4	273.310	6.823 *	273.280	5.533	273.220	2.400	273.070	0.133 #	273.050	0.039 #	273.280	7.542
5	273.310	6.823 #	273.280	5.516	273.200	2.906 *	273.070	0.133 *	273.000	0.000	273.260	6.653
6	273.310	6.823 #	273.270	4.166	273.180	2.648	273.050	0.039 #	272.000	0.000	273.240	6.252
7	273.330	8.613	273.270	4.169	273.180	2.616	273.070	0.133 #	272.000	0.000	273.220	4.601 *
8	273.320	7.097	273.270	4.522 *	273.180	2.587	273.070	0.133 #	272.000	0.000	273.210	3.869
9	273.320	7.054	273.260	4.258	273.180	2.519	273.040	0.016	272.000	0.000	273.180	3.053
10	273.320	7.075	273.260	4.279	273.170	1.851	273.020	0.000	272.000	0.000	273.160	2.390 *
11	273.320	7.485 *	273.280	5.453	273.170	1.831	273.000	0.000	272.000	0.000	273.150	2.143
12	273.320	7.485 *	273.280	5.371	273.170	1.873 *	273.000	0.000	272.000	0.000	273.120	1.525
13	273.320	7.770	273.280	5.345	273.170	1.850	273.000	0.000	272.000	0.000	273.120	1.521
14	273.340	8.652	273.270	4.089	273.170	1.805	272.000	0.000	272.000	0.000	273.140	1.809 *
15	273.330	7.103	273.270	4.522 *	273.170	1.837	272.000	0.000	272.000	0.000	273.200	3.703
16	273.330	7.038	273.270	4.068	273.170	1.820	272.000	0.000	272.000	0.000	273.290	7.877
17	273.330	6.950	273.270	3.947	273.170	1.801	272.000	0.000	273.190	2.894	273.270	7.065
18	273.320	7.485 *	273.260	3.857	273.170	1.836	272.000	0.000	273.200	3.945	273.260	6.619
19	273.310	8.005	273.260	3.893	273.170	1.873 *	272.000	0.000	273.200	3.409	273.260	6.647
20	273.320	7.157	273.260	3.782	273.180	1.821	272.000	0.000	273.160	2.274	273.260	6.596
21	273.320	7.122	273.260	3.893	273.170	1.568	272.000	0.000	273.150	2.150	273.200	3.787 *
22	273.320	7.117	273.260	4.031 *	273.150	1.123	272.000	0.000	273.150	2.151	273.140	1.562
23	273.320	7.077	273.270	4.422	273.150	1.049	272.000	0.000	273.110	1.085 *	273.120	1.218
24	273.320	7.031	273.270	4.431	273.150	1.327 #	272.000	0.000	273.060	0.281 #	273.120	1.188
25	273.310	6.823 *	273.260	3.876	273.150	1.327 #	272.000	0.000	273.020	0.012 #	273.120	1.258
26	273.300	6.513	273.250	3.571 *	273.130	0.887 *	272.000	0.000	273.000	0.000	273.120	1.212
27	273.300	6.410	273.240	3.415	273.110	0.547 #	273.250	6.417	272.000	0.000	273.110	1.021
28	273.300	6.452	273.240	3.344	273.100	0.354	273.200	2.906 *	272.000	0.000	273.100	0.884 *
29	273.290	5.773	273.230	2.747 *			273.160	1.586 #	272.000	0.000	273.080	0.541 #
30	273.290	5.784	273.230	2.201			273.110	0.547 #	272.000	0.000	273.080	0.541 #
31	273.290	5.837	273.220	2.438			273.110	0.547 #			273.120	1.638
Ten-Daily Mean												
I Ten-Daily	273.318	7.701	273.273	4.852	273.197	2.482	273.063	0.127	273.076	0.168	273.230	4.253
II Ten-Daily	273.324	7.513	273.270	4.433	273.171	1.835	273.000	0.000	273.188	1.252	273.207	4.550
III Ten-Daily	273.305	6.540	273.248	3.488	273.139	1.023	273.166	1.091	273.082	0.568	273.119	1.350
Monthly												
Min.	273.290	5.773	273.220	2.201	273.100	0.354	273.000	0.000	273.000	0.000	273.080	0.000
Max.	273.340	9.221	273.280	5.568	273.220	2.906	273.250	6.417	273.200	3.945	273.290	8.173
Mean	273.315	7.228	273.263	4.233	273.171	1.834	273.081	0.428	273.108	0.663	273.180	3.319

Peak Computed Discharge = 2750 cumecs on 07/08/2016 Corres. Water Level :280.3 m

Lowest Computed Discharge = 0.133 cumecs on 05/03/2017 Corres. Water Level :273.07 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

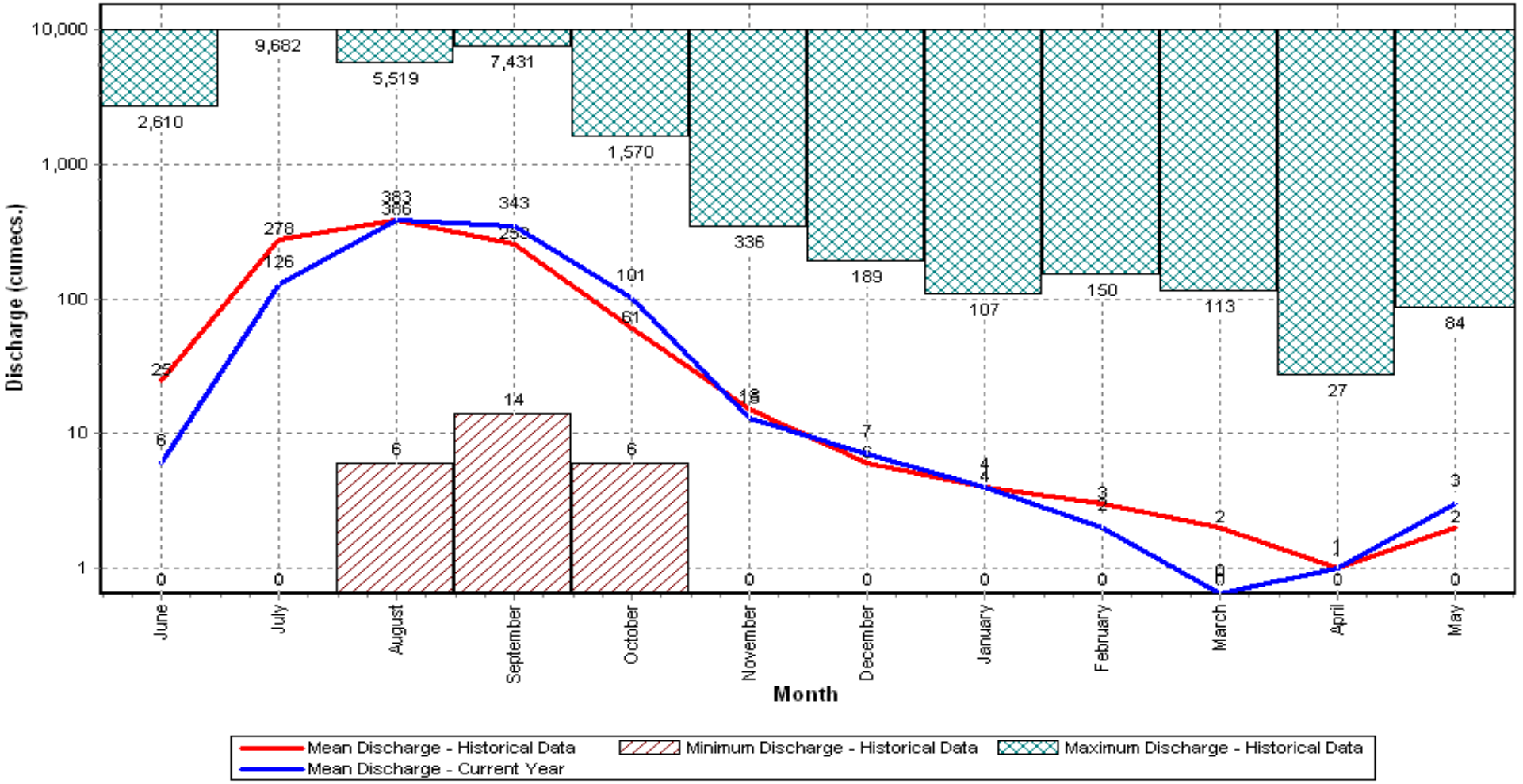
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : RAJEGAON (AGH4MC3) **Data considered : 1986-2017** **Division : Wainganga Div., Nagpur**

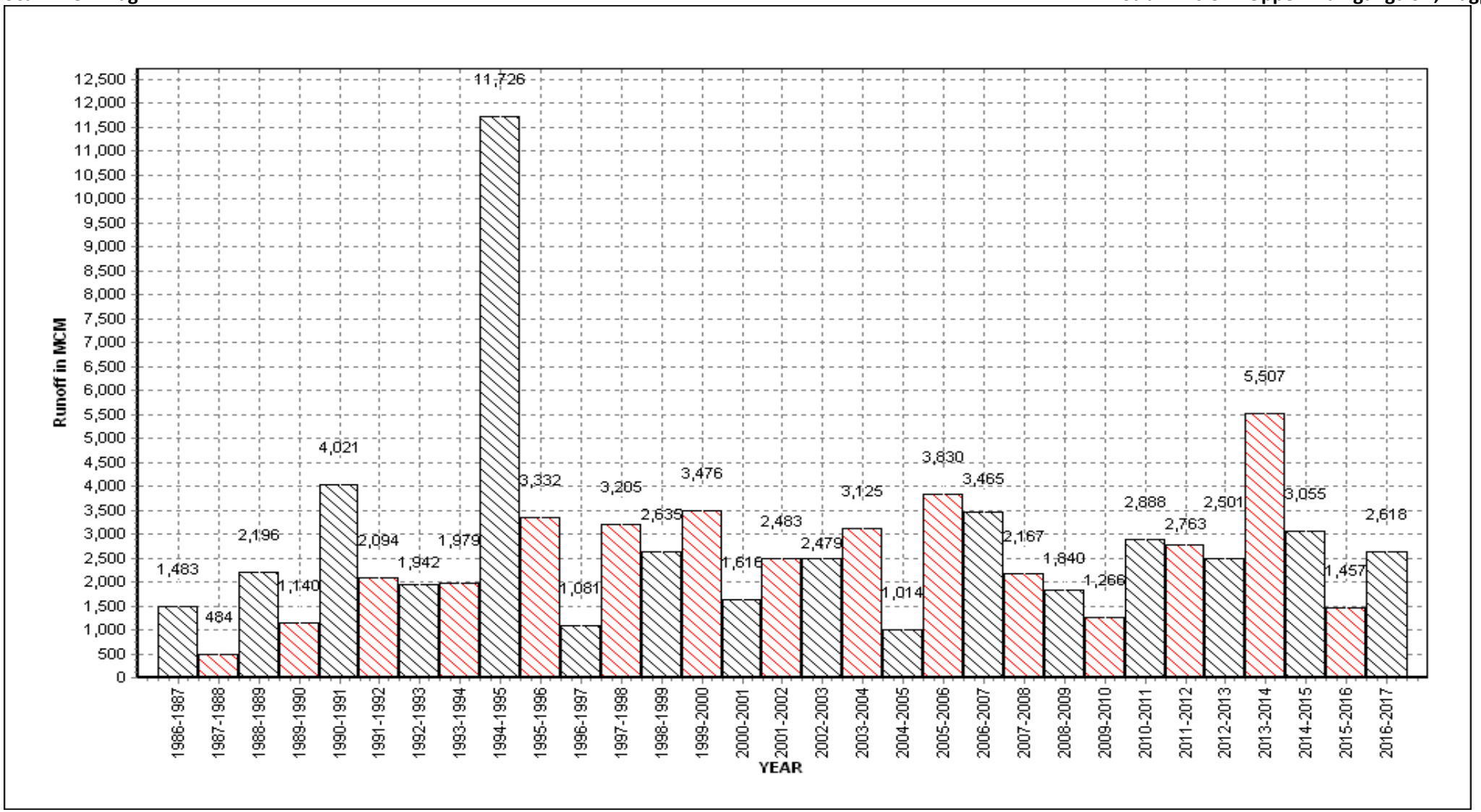
Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**


Discharge (cumecs.)
10,000
1,000
100
10
1
2,610
9,682
5,519
7,431
1,570
336
189
107
150
113
27
84
278
126
383
386
343
259
101
61
25
6
14
6
6
0
0
0

Annual Runoff Values for the period: 1986 - 2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**



Note: Missing values have not been considered while arriving at Annual Runoff

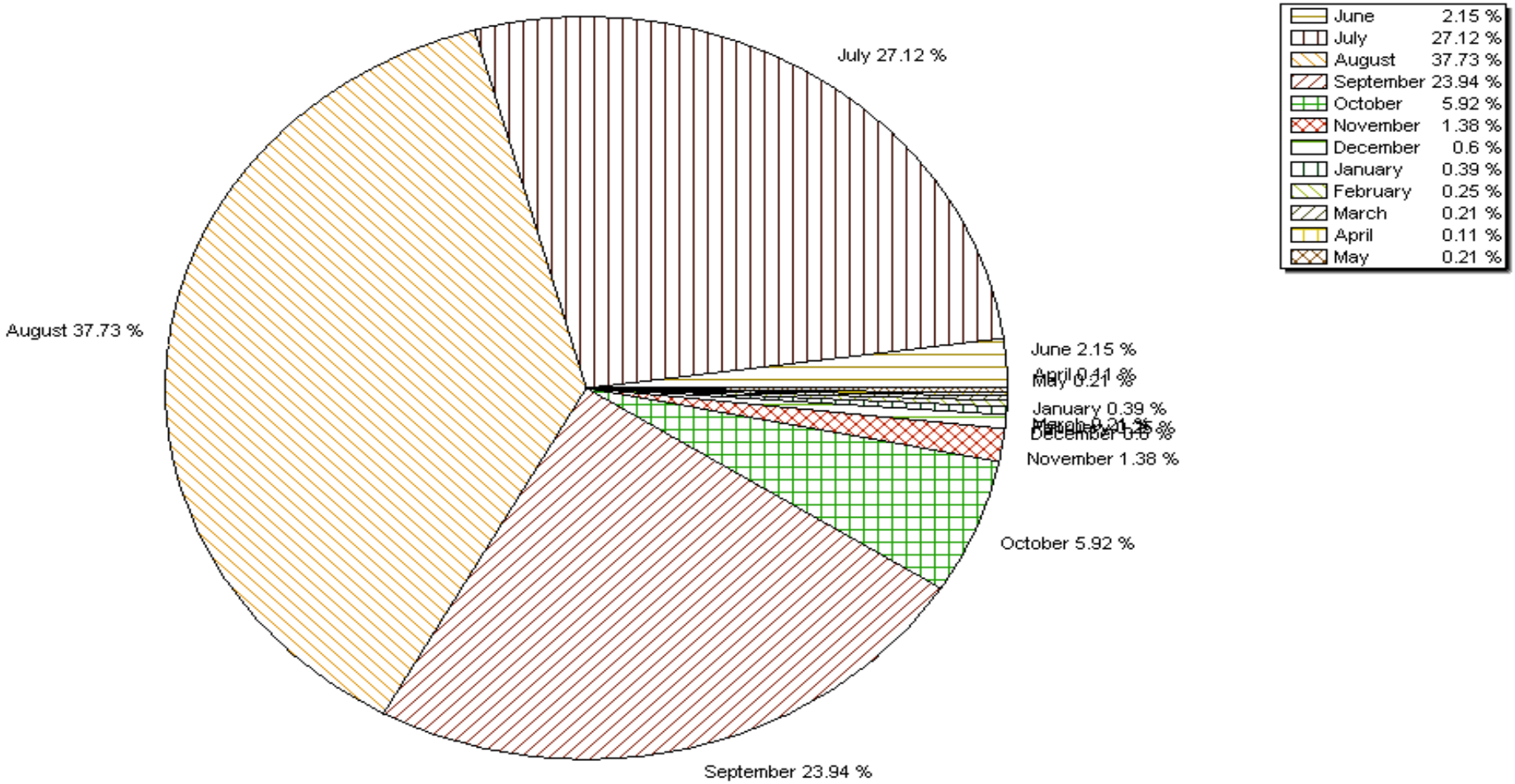
Monthly Average Runoff based on period : 1986-2016

Station Name : RAJEGAON (AGH4MC3)

Local River : Bagh

Division : Wainganga Div., Nagpur

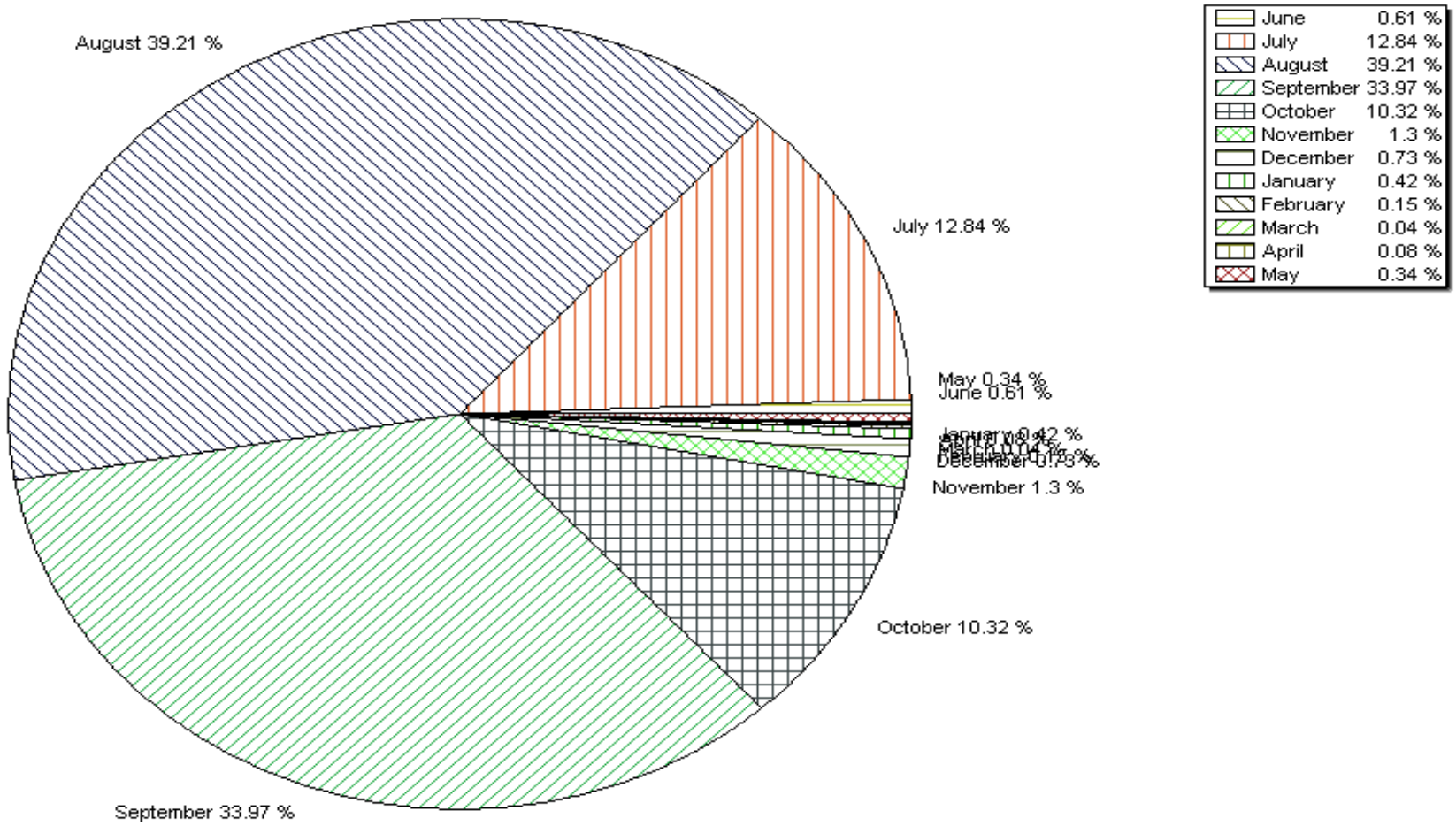
Sub-Division : Upper Wainganga SD, Nagpur



Monthly Runoff for the Year : 2016-2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

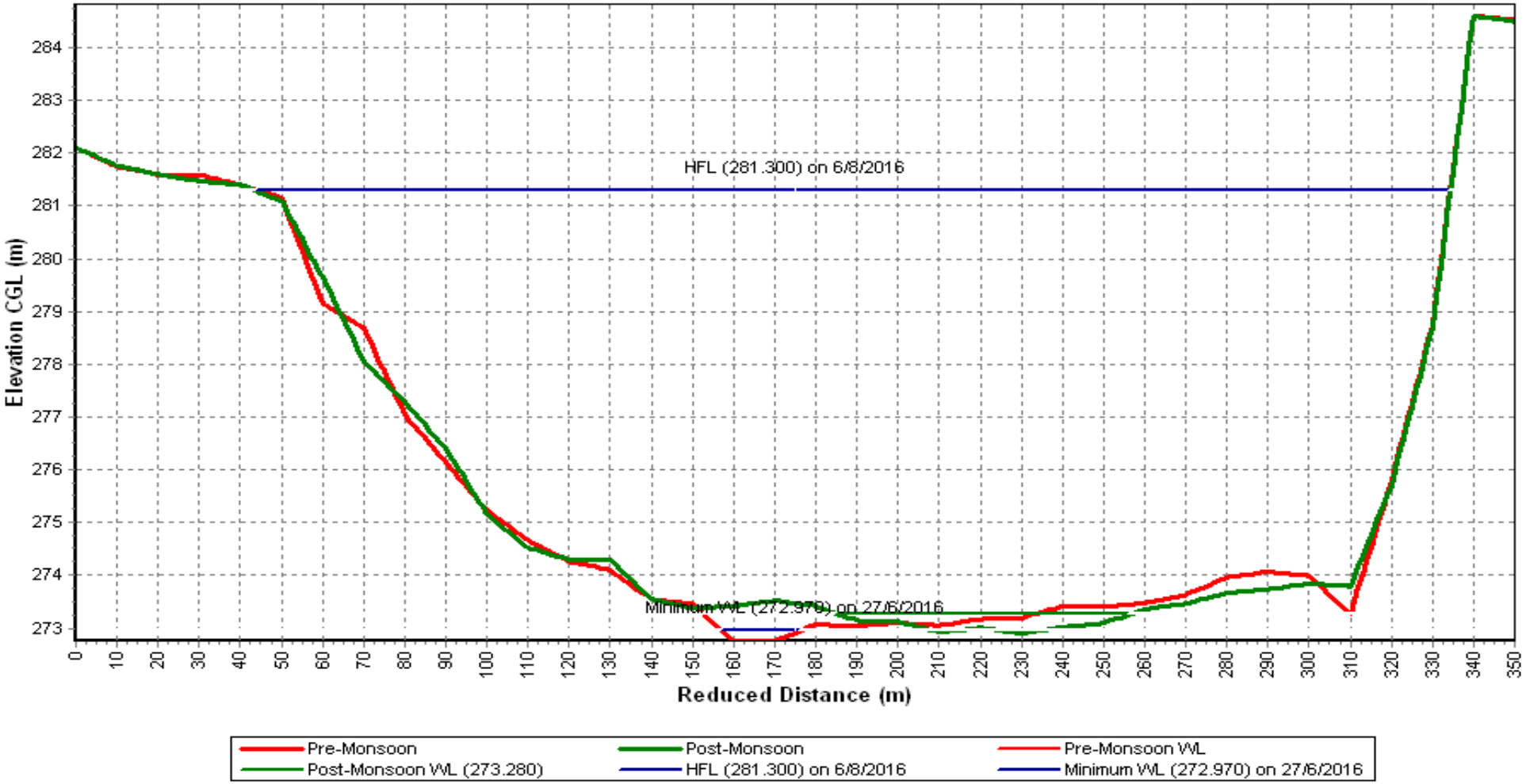
Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

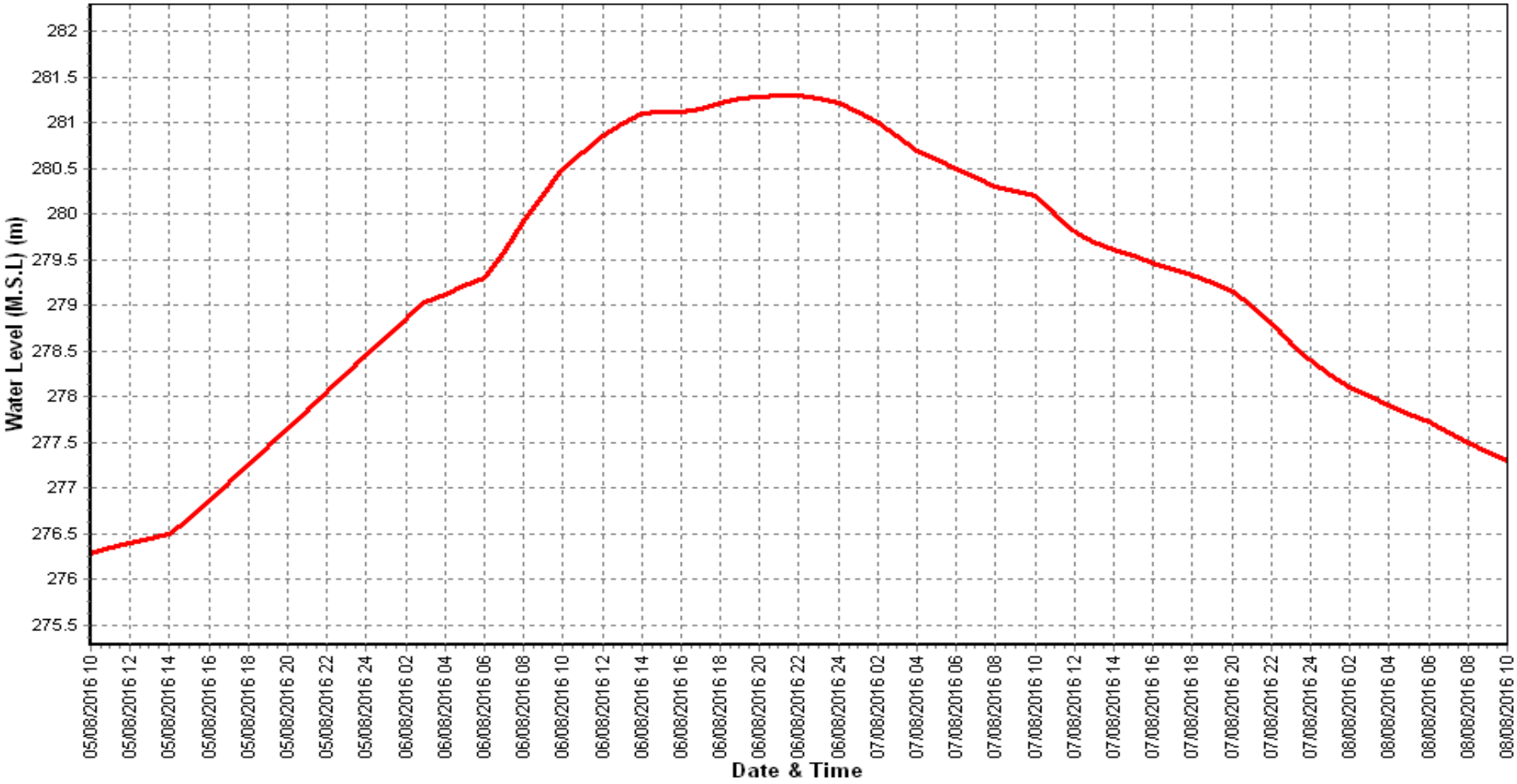
Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

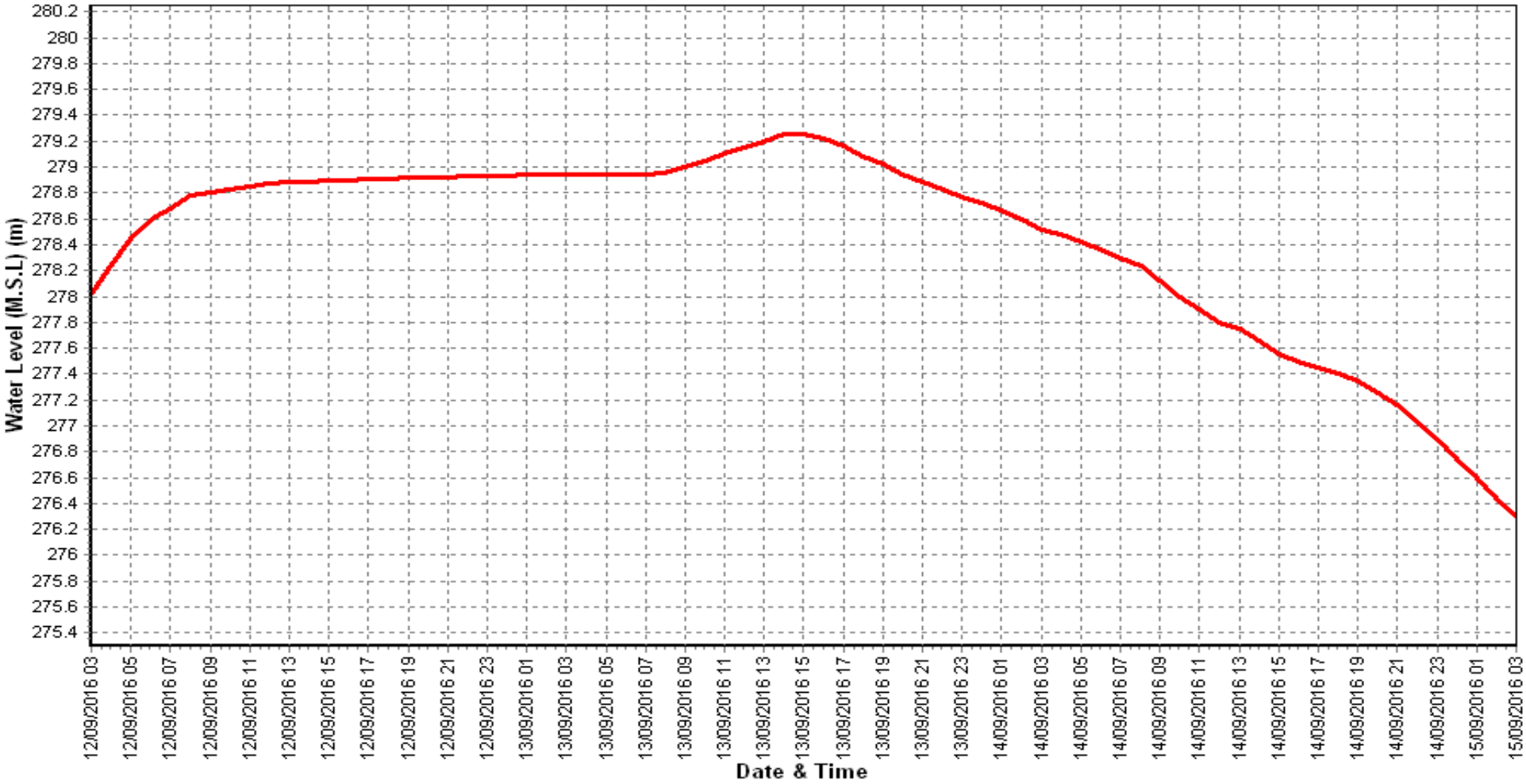


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**

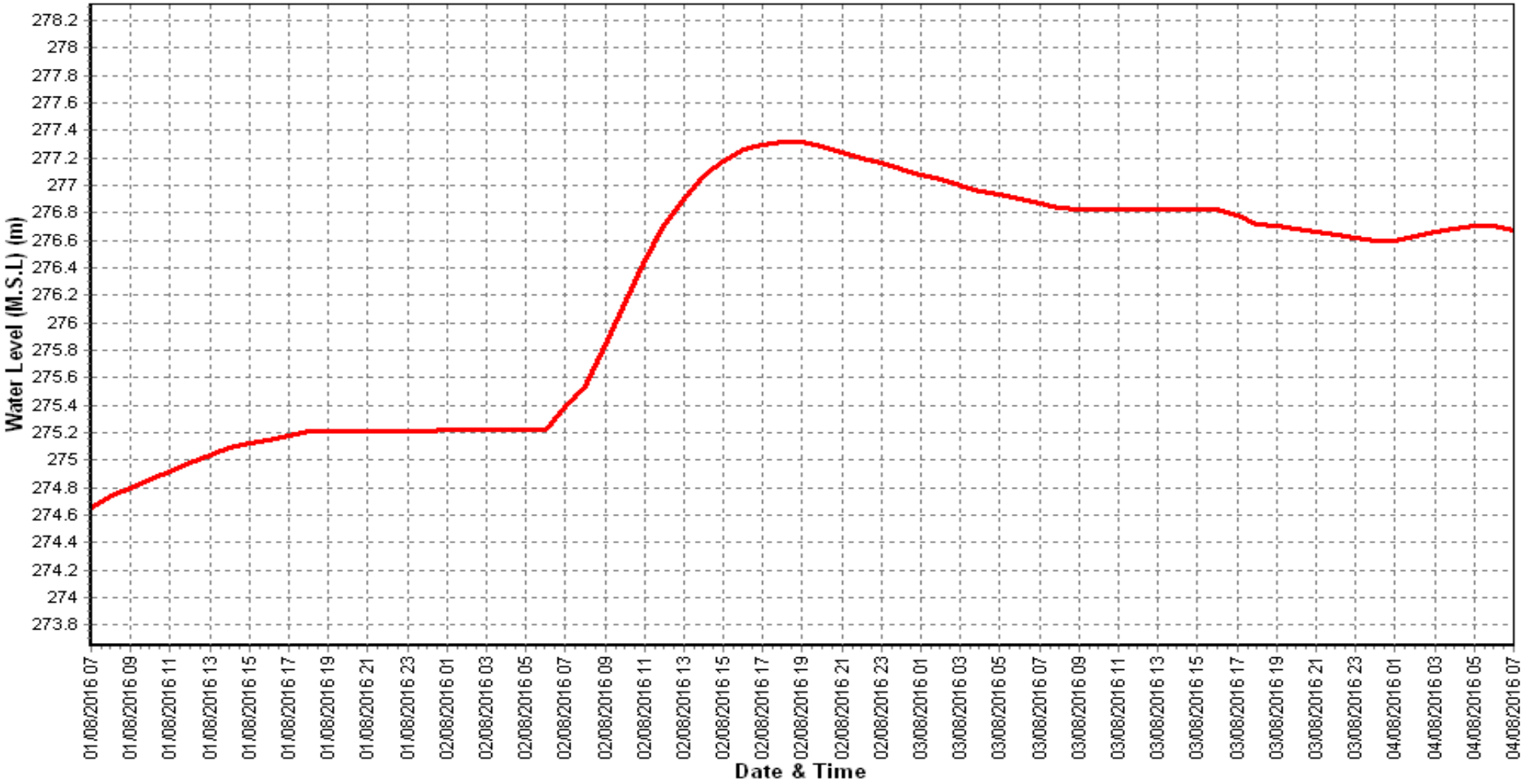


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : RAJEGAON (AGH4MC3) **Division : Wainganga Div., Nagpur**

Local River : Bagh **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: KUMHARI**		**Code**	**: AGH40R6**	
State	: Madhya Pradesh		District	Balaghat	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: -		Local River	: Wainganga	
Division	: Wainganga Div., Nagpur		Sub-Division	: Upper Wainganga SD, Nagpur	
Drainage Area	: 8070 Sq. Km.		Bank	: Left	
Latitude	: 21°53'03"		Longitude	: 80°10'36"	
Zero of Gauge (m)	: 289 (m.s.l)		01.12.1986		
	Opening Date		Closing Date		
Gauge	: 01.12.1986				
Discharge	: 01.12.1986		**HFL During 2016-17**	**: 297.360 Meter**	
			Corres.Discharge	**: 6123.819 Cumecs(Estimated)**	
Sediment	: 01.09.2014		**Date & Time of**	**: 09.07.2016**	
			Occurance	**: 09.00 Hrs.**	
Water Quality	: 01.02.2012				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	17.80	293.075	19.02.1987	0.000		08.10.1986
1987-1988	372.0	294.230	14.07.1987	0.000	291.325	18.06.1987
1988-1989	1784	296.830	28.07.1988	0.420	291.535	25.05.1989
1989-1990	897.5	294.723	26.08.1989	0.529	291.520	10.06.1989
1990-1991	2651	297.900	16.07.1990	0.700	291.550	06.06.1990
1991-1992	3289	299.175	24.08.1991	0.320	291.550	25.05.1992
1992-1993	2798	300.125	16.08.1992	0.190	291.680	20.05.1993
1993-1994	1414	295.105	16.07.1993	0.240	291.660	15.06.1993
1994-1995	8158	304.030	22.07.1994	0.400	291.470	04.06.1994
1995-1996	1748	296.550	20.07.1995	0.500	291.400	28.05.1996
1996-1997	1023	294.840	17.08.1996	0.280	291.320	28.04.1997
1997-1998	4380	300.120	25.07.1997	0.726	291.350	16.06.1997
1998-1999	2823	298.195	14.09.1998	0.990	291.440	27.04.1999
1999-2000	7269	303.920	17.09.1999	0.470	291.680	06.04.2000
2000-2001	2498	297.320	28.07.2000	0.263	291.390	10.05.2001
2001-2002	3434	298.670	14.08.2001	0.658	291.380	04.06.2001
2002-2003	16747	304.335	18.08.2002	0.562	291.210	23.05.2003
2003-2004	3410	298.250	15.09.2003	0.006	290.230	01.06.2003
2004-2005	1165	294.085	23.08.2004	0.439	290.560	23.05.2005
2005-2006	4645	299.600	16.09.2005	0.336	290.530	19.06.2005
2006-2007	8767	302.620	14.08.2006	1.490	290.650	29.06.2006
2007-2008	1348	294.550	10.09.2007	0.000	290.860	26.07.2007

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2008-2009	1431	294.405	01.08.2008	0.417	290.270	12.05.2009
2009-2010	3331	298.150	22.07.2009	0.461	290.260	01.06.2009
2010-2011	2740	296.700	08.09.2010	0.584	290.370	06.06.2010
2011-2012	2654	296.100	07.09.2011	0.750	290.640	28.05.2012
2012-2013	3096	296.450	31.07.2012	0.649	290.640	17.06.2012
2013-2014	10236	300.200	26.07.2013	0.640	290.550	02.06.2013
2014-2015	1969	295.500	23.07.2014	0.409	290.500	12.07.2014
2015-2016	1091	294.060	05.08.2015	0.411	290.280	29.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	290.250	0.510	290.720	29.27	293.110	824.8	292.540	554.5	291.600	174.9 #	290.420	7.144
2	290.250	0.509	290.810	35.14 #	292.720	741.6	292.510	584.7	291.900	261.5 *	290.410	8.274
3	290.250	0.480	291.880	255.2 *	292.700	637.9	292.360	433.9	291.260	99.80 #	290.410	8.027
4	290.250	0.489 #	292.390	396.0	295.340	2907 #	291.660	190.7 *	291.165	101.2	290.400	7.316
5	290.250	0.489 *	291.750	246.8	293.940	1293	291.500	150.3 *	291.090	70.94 #	290.500	13.11
6	290.250	0.471	291.720	207.2 *	293.050	911.3	291.230	95.99	291.010	64.10	290.480	10.05 *
7	290.250	0.459	291.780	206.3	294.400	1853 *	291.095	65.40	291.070	64.06	290.480	12.46
8	290.250	0.469	293.210	691.1	293.210	814.1	291.010	56.52	291.090	84.20	290.570	10.49
9	290.250	0.481	297.330	6133	292.390	447.1 #	290.780	32.13 #	291.400	127.8 *	290.550	9.783
10	290.250	0.521	293.040	783.6 *	292.590	622.9	290.750	29.27 #	291.440	136.6 #	290.540	9.494
11	290.250	0.502	293.900	1400 #	292.000	294.9 #	290.720	26.56 *	291.230	94.30 *	290.530	9.774
12	290.250	0.489 *	292.390	439.6	291.920	262.0	290.770	31.16 #	291.080	69.41 *	290.510	8.160
13	290.250	0.517	292.020	288.3	291.820	225.4	290.880	42.78 *	290.985	53.17	290.510	9.148 *
14	290.260	0.595	291.780	205.8	291.730	210.0 *	291.550	182.1	290.885	39.64	290.500	8.792 *
15	290.260	0.578	291.365	115.5	291.700	201.6 *	291.110	82.88	290.810	35.59	290.500	8.076
16	290.260	0.562	291.220	93.66	291.620	198.2	291.165	82.84	290.610	17.88 *	290.490	7.813
17	290.260	0.556	291.100	72.48 *	291.525	183.3	290.970	46.09	290.580	16.84	290.490	7.524
18	290.270	0.613	292.080	308.1	291.365	121.0	290.940	50.01 *	290.560	14.57 #	290.510	8.967
19	290.280	0.699 *	292.080	336.3	291.300	110.5	290.935	43.39	290.600	16.97	290.520	9.610
20	290.290	0.719	291.665	209.7	291.205	84.58	290.900	41.36	290.550	13.18	290.520	9.510 *
21	290.290	0.715	291.320	96.67	291.140	78.85 *	291.945	248.3	290.540	13.33	290.530	9.341
22	290.280	0.630	292.280	445.4	291.060	63.06	291.640	199.6	290.520	12.49	290.540	10.16
23	290.280	0.732	294.740	2203 #	291.000	47.80	291.190	105.3	290.510	11.63 *	290.560	10.35
24	290.270	0.671	293.160	857.6 *	292.800	710.2	291.030	62.64	290.500	10.07	290.570	11.38
25	290.355	1.534	291.850	218.9	291.780	203.7	291.080	69.41 *	290.490	9.456	290.510	11.20
26	290.310	0.945 *	293.120	858.8	292.300	417.5	291.930	253.8	290.480	9.491	290.520	11.45
27	290.310	0.800	292.030	364.3	292.400	452.4	292.365	430.1	290.470	8.004	290.520	9.510 *
28	290.355	1.478	291.500	133.5	292.920	713.4 *	291.800	214.7	290.460	7.600	290.520	10.87
29	291.220	92.51 #	291.540	155.1	292.230	395.6	291.430	164.4	290.450	7.080	290.530	10.66
30	290.730	27.45 #	291.685	183.4	291.735	195.9	291.885	239.2	290.440	8.141 *	290.540	12.49
31			291.860	248.8 *	293.450	880.2			290.430	7.629		
Ten-Daily Mean												
I Ten-Daily	290.250	0.488	292.463	898.4	293.345	1105	291.544	219.3	291.302	118.5	290.476	9.614
II Ten-Daily	290.263	0.583	291.960	346.9	291.619	189.1	290.994	62.91	290.789	37.15	290.508	8.737
III Ten-Daily	290.440	12.75	292.280	524.2	292.074	378.1	291.629	198.7	290.481	9.539	290.534	10.74
Monthly												
Min.	290.250	0.459	290.720	29.27	291.000	47.80	290.720	26.56	290.430	7.080	290.400	7.144
Max.	291.220	92.51	297.330	6133	295.340	2907	292.540	584.7	291.900	261.5	290.570	13.11
Mean	290.318	4.606	292.236	587.7	292.337	551.7	291.389	160.3	290.845	53.60	290.506	9.697

Annual Runoff in MCM = 3791 Annual Runoff in mm = 470

Peak Observed Discharge = 6133 cumecs on 09/07/2016 Corres. Water Level :297.33 m

Lowest Observed Discharge = 0.275 cumecs on 27/05/2017 Corres. Water Level :290.08 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	290.530	12.42	290.420	8.950 *	290.520	18.51	290.400	11.97	290.190	1.198 #	290.120	0.503 #
2	290.540	12.01	290.410	9.639	290.520	18.27	290.400	11.42	290.180	1.077 *	290.120	0.503 #
3	290.540	15.82 #	290.460	9.578	290.490	15.69	290.360	10.03	290.170	0.964 #	290.140	0.496
4	290.580	18.64 *	290.460	10.98 #	290.480	13.50	290.360	9.466	290.170	1.090	290.120	0.384
5	290.580	18.65	290.590	20.24	290.410	11.53 *	290.350	8.551 *	290.180	1.208	290.100	0.327
6	290.580	18.86	290.620	22.67	290.270	5.345	290.330	5.724	290.170	1.133	290.100	0.302
7	290.550	16.69	290.600	22.23	290.370	9.674	290.280	5.595 #	290.160	0.857 #	290.100	0.367 *
8	290.540	15.70	290.580	18.64 *	290.330	8.609	290.230	3.052	290.150	0.758 #	290.100	0.367 #
9	290.560	17.97	290.510	15.86	290.350	9.297	290.200	2.846	290.150	0.758 *	290.100	0.436
10	290.460	10.03	290.550	18.48	290.260	5.184	290.190	2.654 #	290.150	0.803	290.100	0.367 *
11	290.400	8.026 *	290.610	24.48	290.240	3.643	290.330	7.648 #	290.150	0.786	290.100	0.367 #
12	290.340	5.609 *	290.720	32.99	290.370	9.499 *	290.420	12.07 *	290.150	0.711	290.100	0.367 #
13	290.330	6.372	290.670	29.12	290.540	17.55	290.420	12.07 *	290.150	0.716	290.100	0.450
14	290.520	12.62	290.590	22.11	290.640	27.17	290.400	10.95	290.150	0.758 *	290.100	0.367 *
15	290.510	12.20	290.570	21.41 *	290.630	26.38	290.380	9.568	290.140	0.681	290.100	0.403
16	290.480	10.83	290.580	22.86	290.600	23.59	290.370	10.06	290.140	0.666 *	290.100	0.413
17	290.380	8.693	290.590	23.16	290.570	20.81	290.390	10.64	290.140	0.568	290.100	0.380
18	290.340	5.609 *	290.570	21.12	290.550	18.82	290.390	10.80	290.140	0.568	290.100	0.356
19	290.340	5.929	290.560	20.51	290.550	20.03 *	290.370	9.499 *	290.140	0.563	290.100	0.368
20	290.370	7.016	290.560	20.47	290.550	19.66	290.310	7.526	290.150	0.627	290.100	0.345
21	290.370	6.841	290.540	18.83	290.530	20.07	290.300	7.076	290.150	0.622	290.100	0.367 *
22	290.450	8.168	290.550	20.03 *	290.520	19.10	290.280	6.840	290.150	0.758 #	290.100	0.370
23	290.420	8.232	290.550	20.48	290.520	18.95	290.270	5.174	290.140	0.666 *	290.100	0.370
24	290.380	7.599	290.580	21.26	290.480	16.10	290.270	5.306	290.150	0.758 #	290.100	0.329
25	290.420	8.950 *	290.610	24.31	290.510	17.37	290.240	3.868	290.140	0.558	290.080	0.299
26	290.360	5.793	290.620	25.06 *	290.500	16.75 *	290.240	1.924 *	290.140	0.526	290.080	0.280
27	290.430	8.116	290.620	23.42	290.460	13.78	290.240	1.924 #	290.130	0.635	290.080	0.275
28	290.400	9.915	290.620	25.25	290.440	13.35	290.230	1.763 *	290.120	0.617	290.080	0.255 *
29	290.420	9.631	290.640	26.60 *			290.230	1.763 #	290.120	0.598	290.100	0.367 #
30	290.450	9.094	290.600	22.73			290.230	2.147	290.120	0.503 *	290.100	0.367 #
31	290.460	9.614	290.570	20.13			290.200	1.613			290.150	0.860
Ten-Daily Mean												
I Ten-Daily	290.546	15.68	290.520	15.73	290.400	11.56	290.310	7.130	290.167	0.985	290.110	0.405
II Ten-Daily	290.401	8.291	290.602	23.82	290.524	18.71	290.378	10.08	290.145	0.664	290.100	0.381
III Ten-Daily	290.415	8.359	290.591	22.55	290.495	16.93	290.248	3.581	290.136	0.624	290.097	0.376
Monthly												
Min.	290.330	5.609	290.410	8.950	290.240	3.643	290.190	1.613	290.120	0.503	290.080	0.255
Max.	290.580	18.86	290.720	32.99	290.640	27.17	290.420	12.07	290.190	1.208	290.150	0.860
Mean	290.453	10.70	290.572	20.76	290.471	15.65	290.310	6.823	290.149	0.758	290.102	0.387

Peak Computed Discharge = 1853 cumecs on 07/08/2016 Corres. Water Level :294.4 m

Lowest Computed Discharge = 0.255 cumecs on 28/05/2017 Corres. Water Level :290.08 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

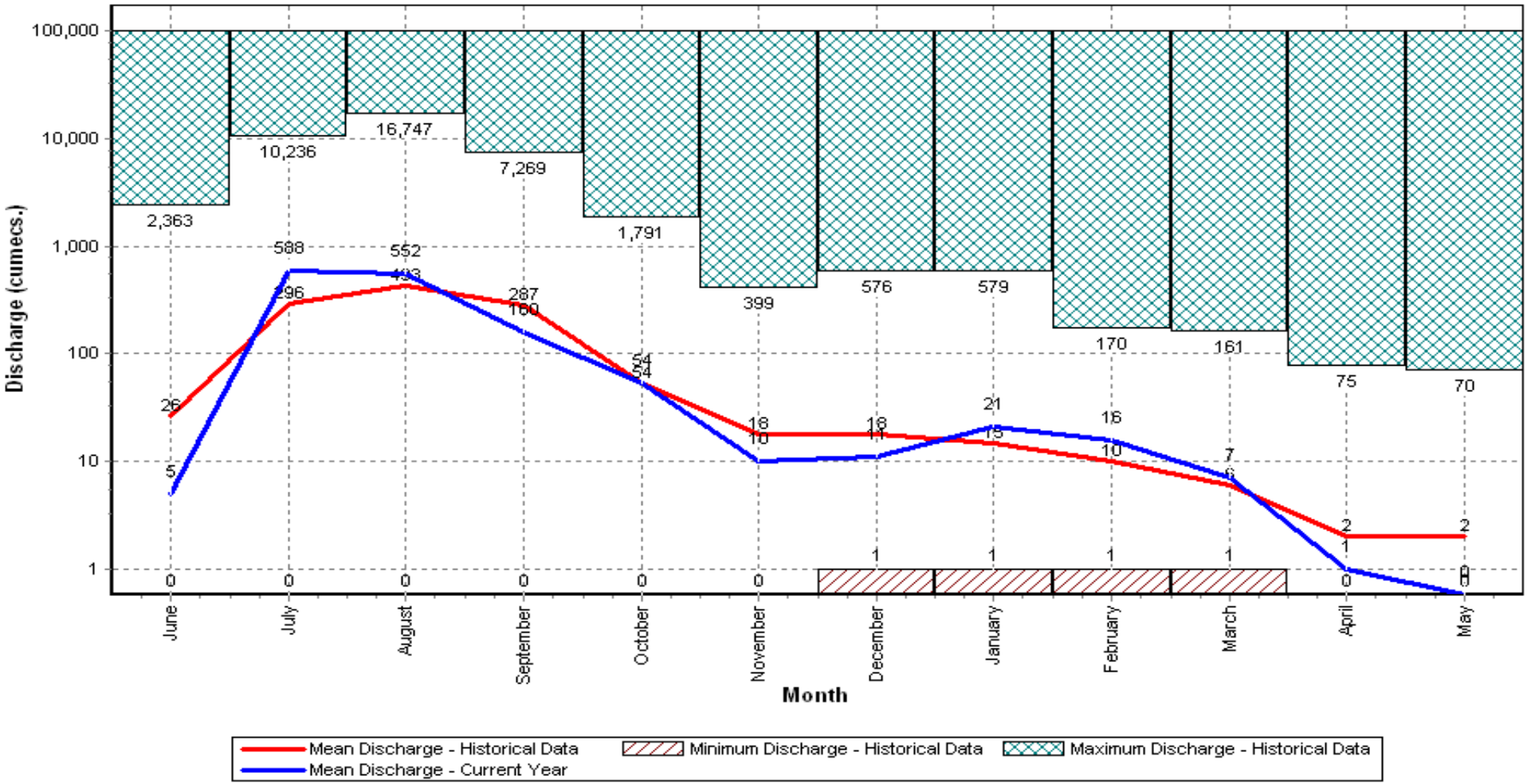
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : KUMHARI (AGH40R6) | **Data considered : 1986-2017** | **Division : Wainganga Div., Nagpur**

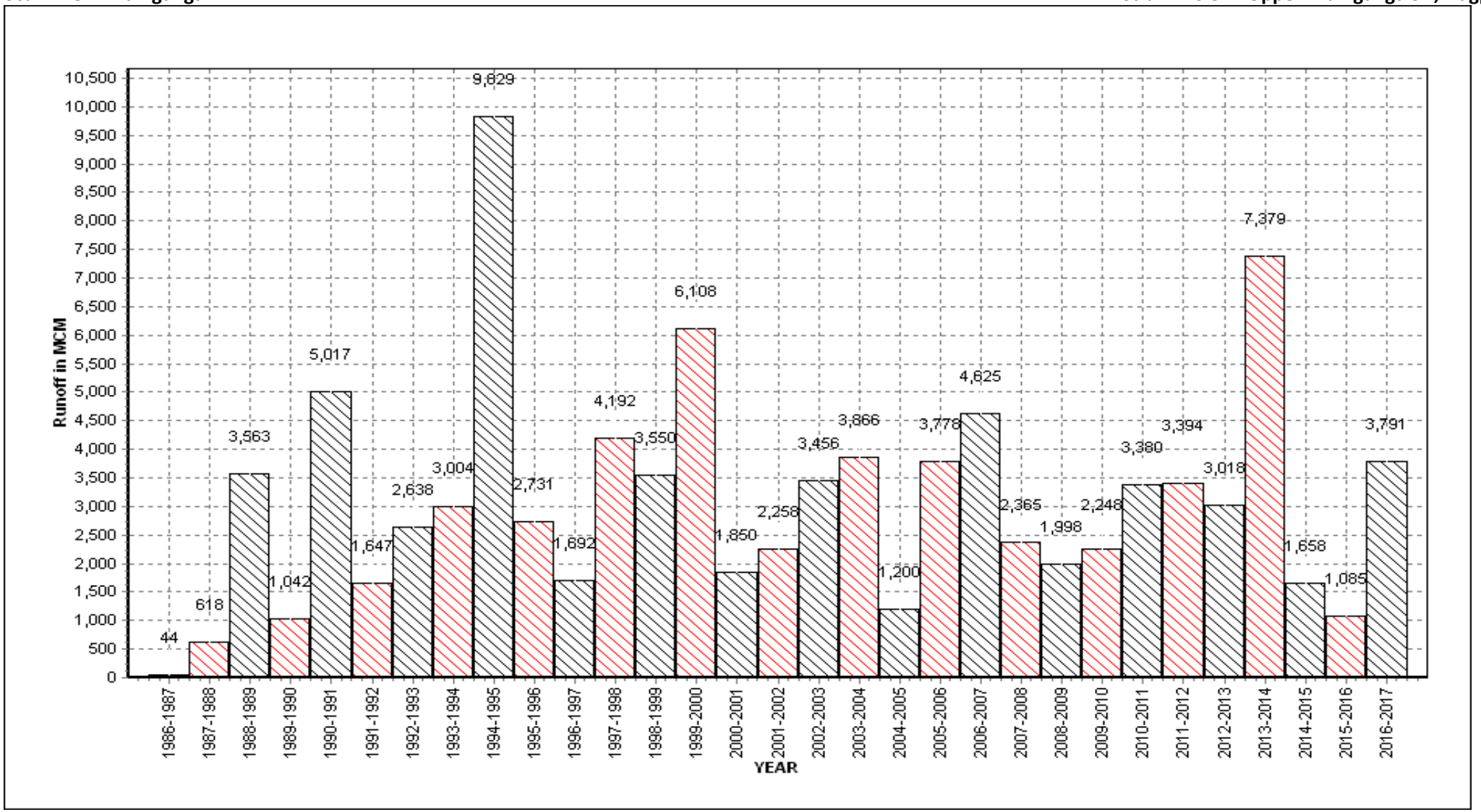
Local River : Wainganga | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1986 - 2017

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Note: Missing values have not been considered while arriving at Annual Runoff

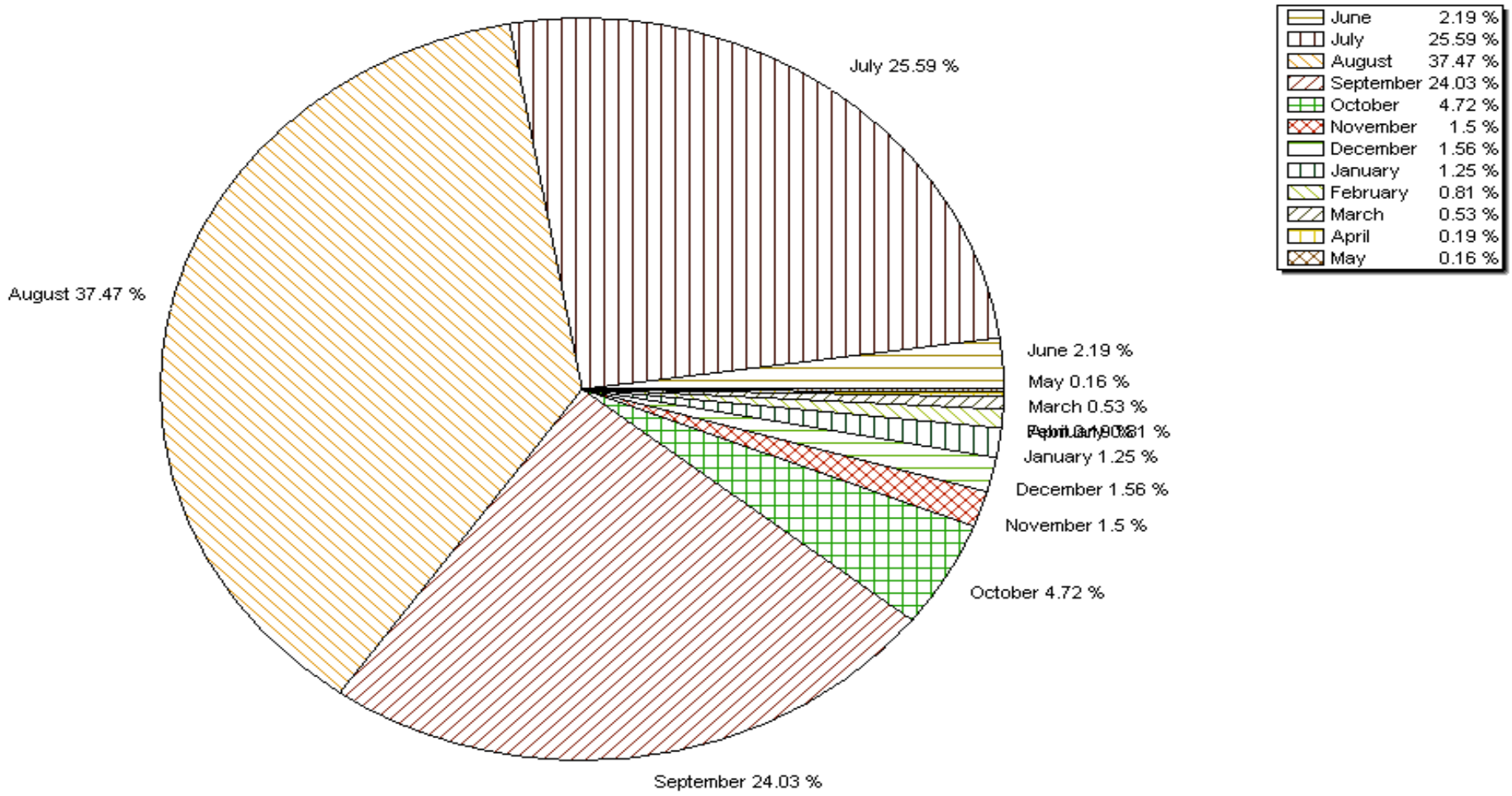
Monthly Average Runoff based on period : 1986-2016

Station Name : KUMHARI (AGH40R6)

Local River : Wainganga

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



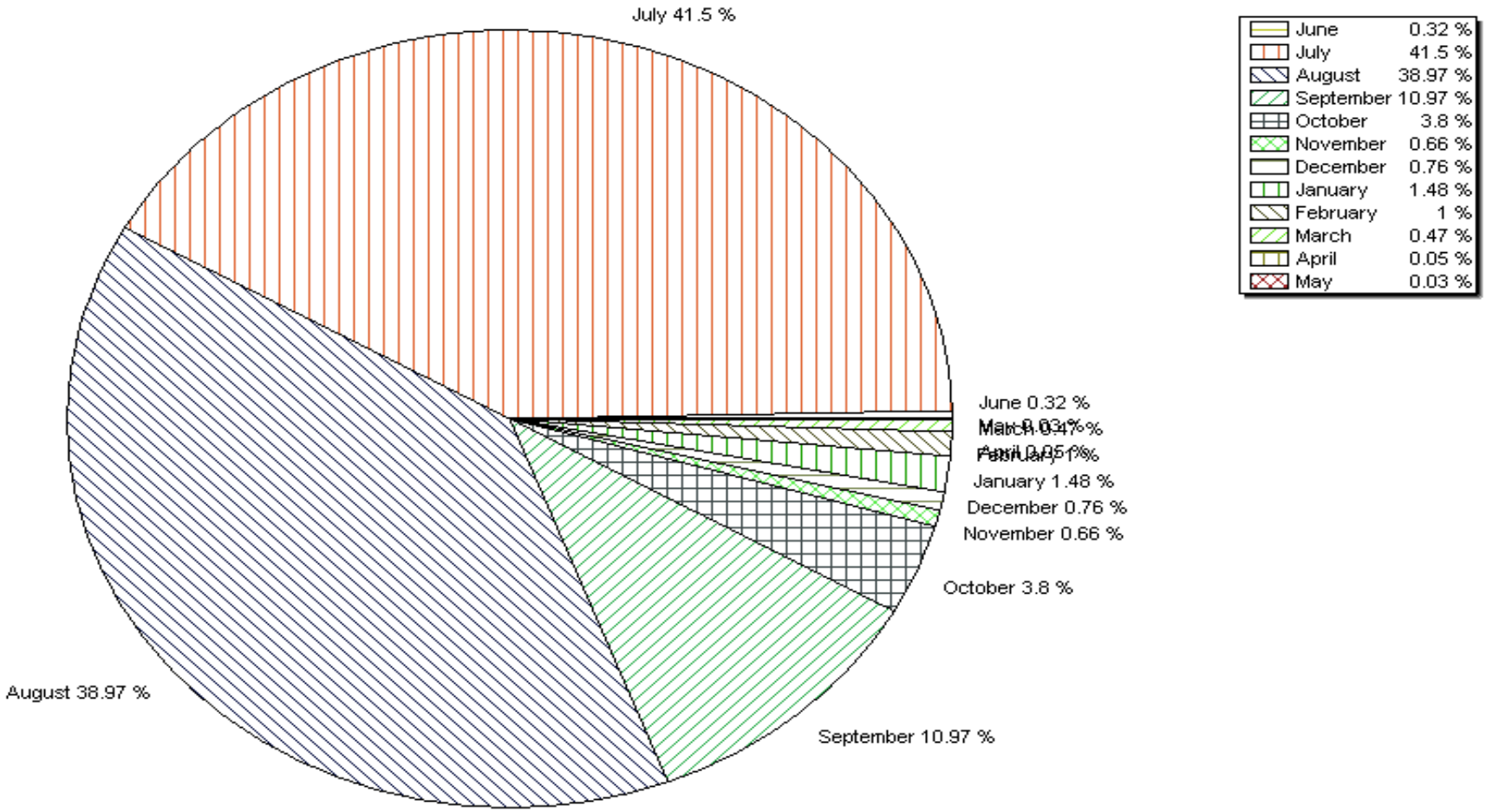
Monthly Runoff for the Year : 2016-2017

Station Name : KUMHARI (AGH40R6)

Local River : Wainganga

Division : Wainganga Div., Nagpur

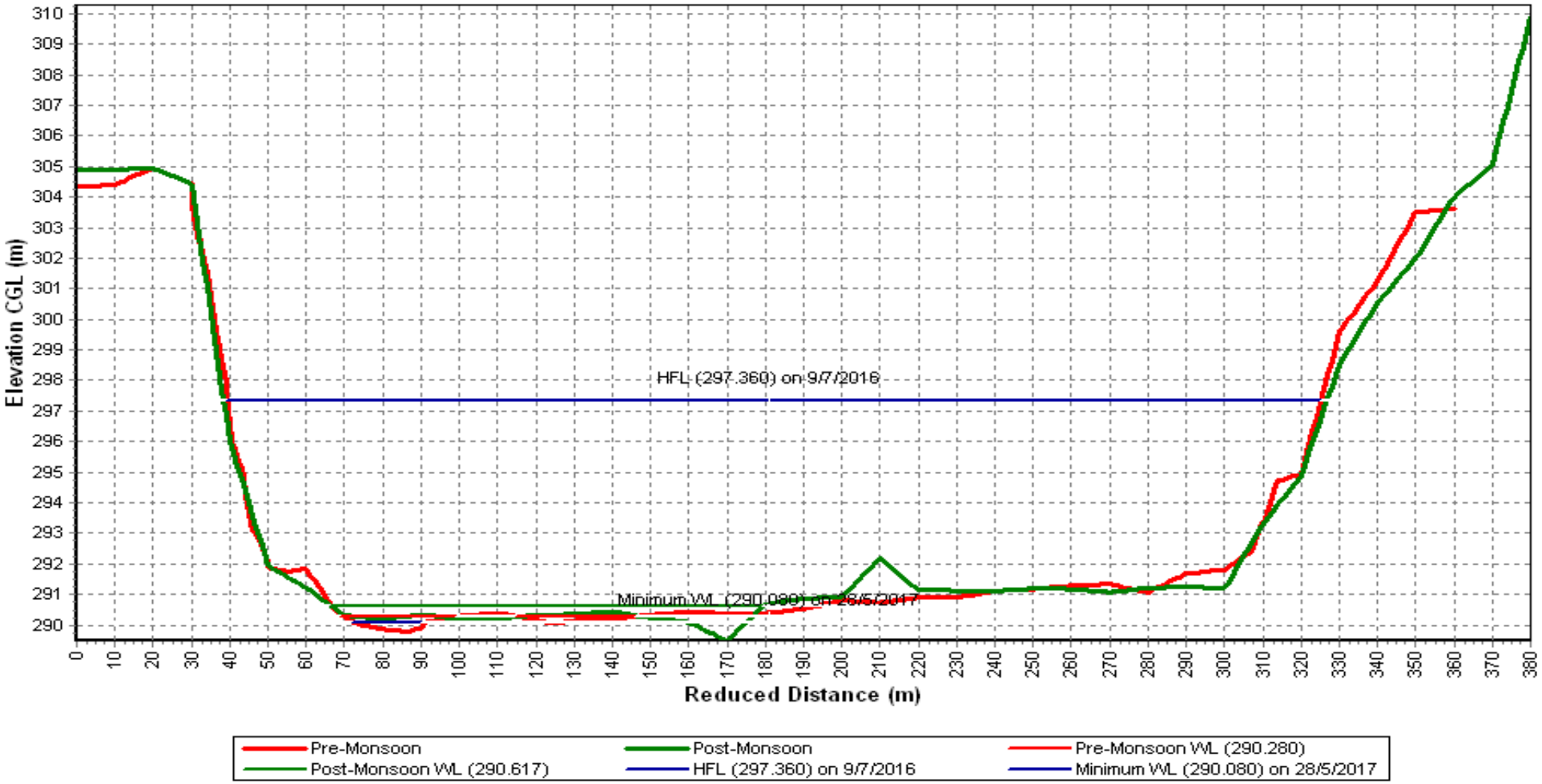
Sub-Division : Upper Wainganga SD, Nagpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

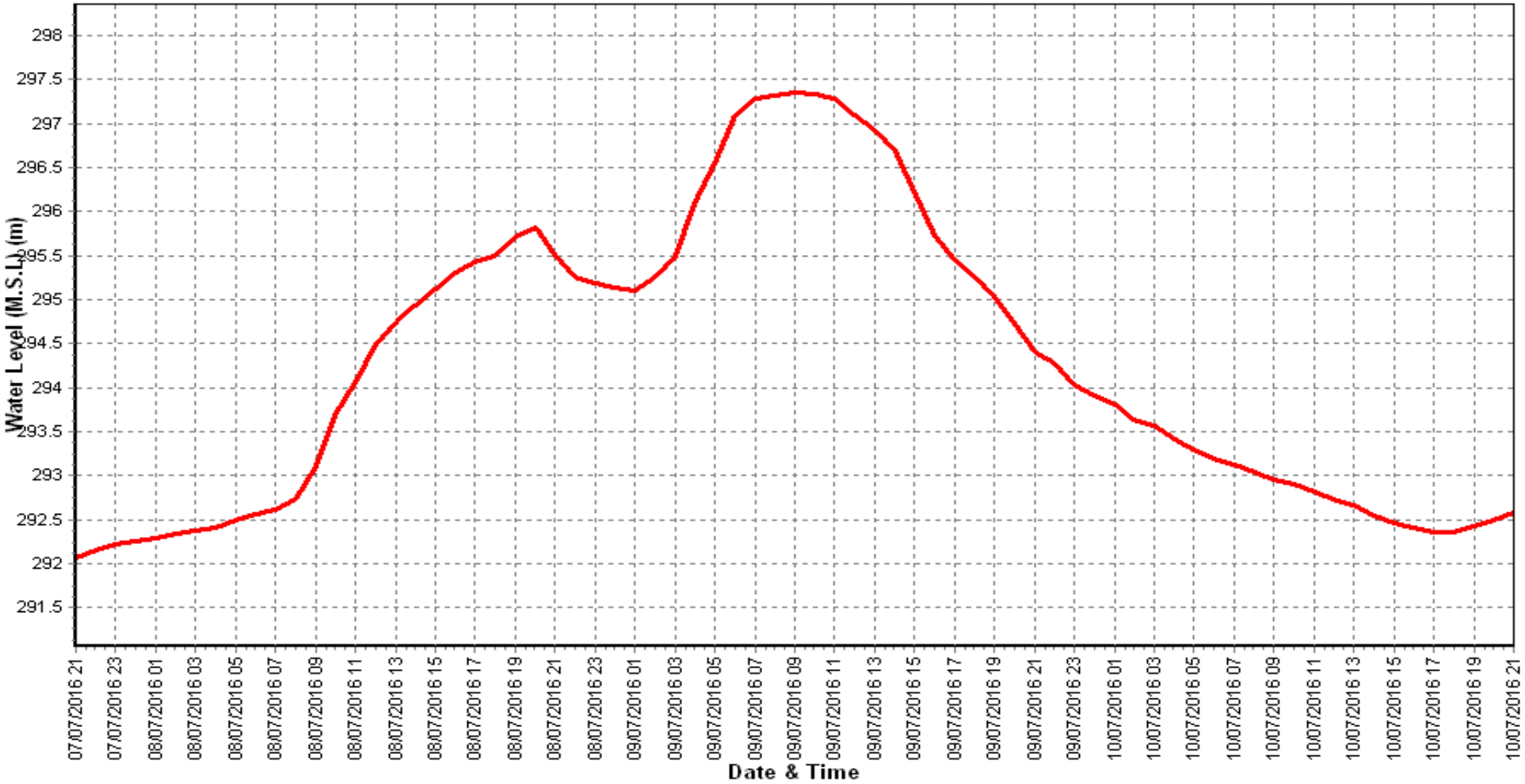
Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

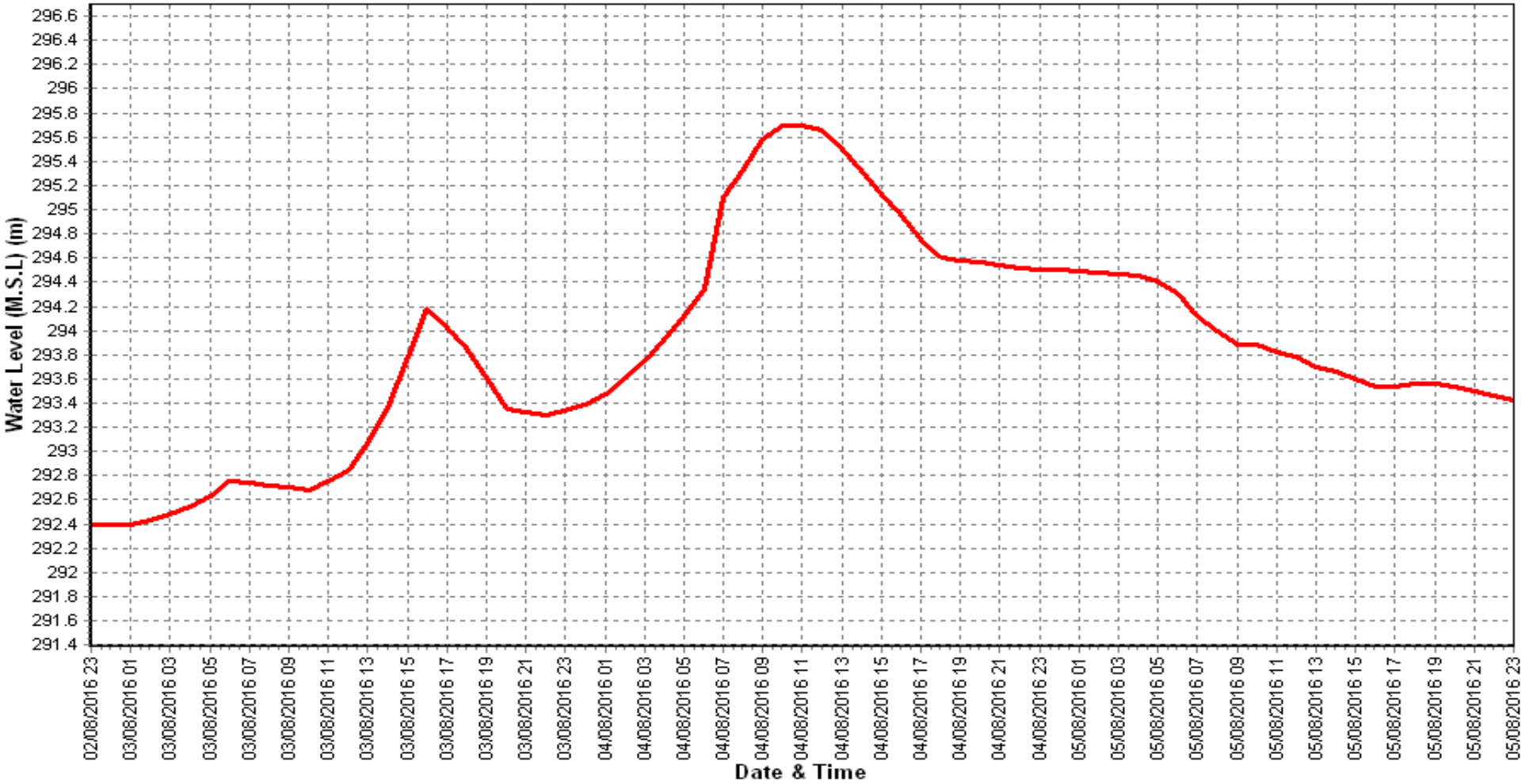


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

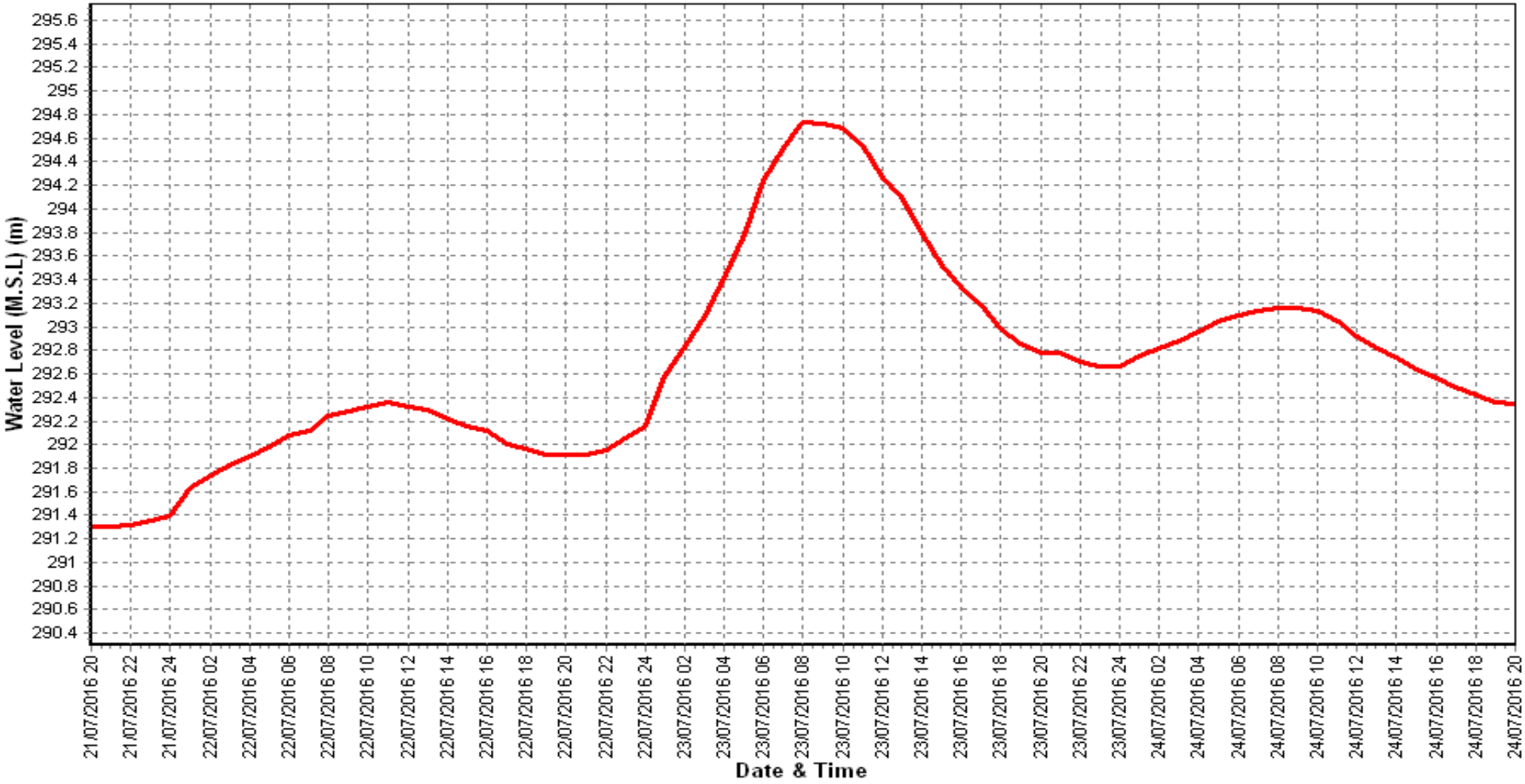


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : KUMHARI (AGH40R6) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: KEOLARI**		**Code**	**: AGH40V3**	
State	: Madhya Pradesh		District	Seoni	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pranhita		Sub Tributary	: Wainganga	
Sub-Sub Tributary	: -		Local River	: Wainganga	
Division	: Wainganga Div., Nagpur		Sub-Division	: Upper Wainganga SD, Nagpur	
Drainage Area	: 2970 Sq. Km.		Bank	: Right	
Latitude	: 22°22'50"		Longitude	: 79°54'00"	
Zero of Gauge (m)	: 425 (m.s.l) 424.52 (m.s.l)		27.11.1986 01.06.2005	- 31.05.2005	
	Opening Date		Closing Date		
Gauge	: 27.11.1986				
Discharge	: 29.06.1987		**HFL During 2016-17**	**: 434.330 Meter**	
			Corres.Discharge	**: 1280.315 Cumecs(Estimated)**	
Sediment	:		**Date & Time of**	**: 04.08.2016**	
			Occurance	**: 02.00 Hrs.**	
Water Quality	: 01.06.2014				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	100.4	428.260	30.08.1987	0.000		12.04.1988
1988-1989	483.6	430.030	14.07.1988	0.000		03.05.1989
1989-1990	525.2	430.122	26.08.1989	0.000		11.04.1990
1990-1991	1065	432.335	18.08.1990	0.000		27.05.1991
1991-1992	307.6	429.400	24.08.1991	0.000		13.05.1992
1992-1993	989.3	431.645	17.08.1992	0.000	426.480	13.02.1993
1993-1994	860.0	431.825	16.07.1993	0.000		17.05.1994
1994-1995	5500	440.500	21.07.1994	0.000	427.065	30.04.1995
1995-1996	1200	432.705	20.07.1995	0.000	426.560	09.05.1996
1996-1997	694.0	431.020	06.09.1996	0.000	426.605	10.05.1997
1997-1998	1308	433.255	25.07.1997	0.000	426.460	16.06.1997
1998-1999	1779	433.910	14.09.1998	1.600	426.700	28.05.1999
1999-2000	3554	436.985	15.09.1999	0.690	426.640	20.05.2000
2000-2001	643.5	431.095	28.07.2000	0.000	426.990	25.04.2001
2001-2002	247.0	429.220	15.08.2001	0.000	426.530	02.06.2001
2002-2003	3008	435.925	18.08.2002	0.000	426.430	08.06.2002
2003-2004	2363	435.650	14.09.2003	0.114	426.515	16.06.2003
2004-2005	166.6	428.860	22.08.2004	0.000	426.570	01.06.2004
2005-2006	2802	435.220	15.09.2005	0.000	425.940	16.06.2005
2006-2007	4058	437.920	14.08.2006	0.001	426.130	30.05.2007
2007-2008	862.8	431.435	08.09.2007	0.167	426.300	03.05.2008

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2008-2009	295.6	429.120	10.07.2008	0.017	426.020	02.03.2009
2009-2010	2997	436.920	22.07.2009	0.016	426.270	30.05.2010
2010-2011	1115	432.160	05.09.2010	0.000	426.000	15.06.2010
2011-2012	1234	432.430	16.09.2011	0.077	426.220	31.05.2012
2012-2013	394.8	429.220	06.09.2012	0.000	426.360	30.05.2013
2013-2014	4518	436.170	23.08.2013	0.000	426.370	23.05.2014
2014-2015	642.1	430.170	10.09.2014	0.000	426.410	22.03.2015
2015-2016	626.5	430.170	04.08.2015	0.000	426.330	18.05.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	426.300	0.000	426.170	0.000	428.540	154.1 #	428.160	175.7	429.270	345.6	426.650	6.237
2	426.300	0.000	427.980	0.000	428.375	120.6	430.620	714.9	427.120	54.33 *	426.620	5.970
3	426.300	0.000	427.880	0.000	429.270	238.3 *	427.820	133.5	427.080	48.50	426.620	5.983
4	426.300	0.000	428.170	0.000	431.620	624.5 *	427.420	81.72 *	427.030	45.26	426.580	5.630
5	426.300	0.000	427.100	0.000	429.270	238.3 *	427.210	61.97 *	426.920	38.46	426.700	6.599 #
6	426.300	0.000	429.190	0.000	428.410	138.4	427.170	54.59	426.920	38.46	426.670	6.347 *
7	426.260	0.000	427.240	0.000	427.720	80.53 *	427.000	43.36	427.320	80.48	426.640	6.107
8	426.240	0.000	428.370	0.000	427.735	88.32	426.850	34.38	427.240	59.64	426.650	6.180
9	426.220	0.000	428.620	0.000	427.445	67.29	426.820	32.69	427.470	86.82 *	426.640	6.079
10	426.220	0.000	427.980	0.000	427.325	60.74	426.790	31.04	427.500	98.28	426.640	6.052
11	426.220	0.000	428.470	0.000	427.160	53.78	426.770	29.32 *	427.220	62.85 *	426.620	5.905
12	426.220	0.000	428.730	0.000	427.115	47.21	426.720	26.37 *	427.000	44.91 *	426.620	5.900
13	426.220	0.000	428.020	0.000	427.060	45.97	426.700	26.30	426.880	36.11	426.620	6.100 *
14	426.220	0.000	427.380	56.68 #	427.040	36.84 *	426.690	25.79	426.710	26.81	426.640	6.182 *
15	426.220	0.000	427.050	40.44	426.970	33.27 *	426.690	25.79	426.700	26.30	426.690	25.79
16	426.210	0.000	426.980	30.26	426.940	32.65	426.870	35.52	426.880	39.02 *	426.670	24.80
17	426.210	0.000	427.020	35.80 *	426.960	33.97	426.850	34.38	426.720	27.33	426.690	25.79
18	426.210	0.000	427.400	69.50	426.880	27.65	426.950	41.24 *	426.690	25.79	426.690	25.79
19	426.200	0.000	427.100	42.87	426.860	26.63	426.910	37.86	426.610	13.02 #	426.720	27.33
20	426.200	0.000	426.970	29.83	426.820	23.92	427.340	82.38	426.530	4.905	426.710	26.80 *
21	426.200	0.000	426.870	21.87	426.810	25.74 *	427.260	61.13	426.520	4.512	426.700	26.31
22	426.200	0.000	426.970	28.77	426.760	17.90	426.870	35.52	426.500	4.140	426.710	26.81
23	426.200	0.000	427.945	83.81	427.125	51.67	426.840	33.82	426.500	3.746 *	426.750	28.89
24	426.200	0.000	427.670	76.77 *	427.370	63.81	426.750	28.89	426.710	26.81	426.750	28.89
25	426.190	0.000	427.190	47.01	427.340	59.16	427.420	81.72 *	426.620	14.20 #	426.760	29.42
26	426.180	0.000	427.270	52.41	429.020	207.5 *	427.570	105.6	426.510	4.242	426.760	29.42
27	426.180	0.000	427.110	37.24	427.730	95.14	427.130	51.84	426.500	4.079	426.760	29.42 *
28	426.180	0.000	428.040	91.55	427.620	103.0 *	427.000	43.36	426.710	26.81	426.760	29.42
29	426.180	0.000	427.855	78.48	427.590	99.67 *	426.980	42.11	426.690	25.79	426.760	29.42
30	426.170	0.000	428.180	101.9	429.120	339.2 *	426.970	41.49	426.680	22.63 *	426.770	29.95
31			428.220	122.7 *	428.690	257.8 *			426.680	25.29		
Ten-Daily Mean												
I Ten-Daily	426.274	0.000	427.870	0.000	428.571	181.1	427.586	136.4	427.387	89.59	426.641	6.118
II Ten-Daily	426.213	0.000	427.512	30.54	426.980	36.19	426.849	36.50	426.794	30.70	426.667	18.04
III Ten-Daily	426.188	0.000	427.575	67.50	427.743	120.1	427.079	52.55	426.602	14.75	426.748	28.80
Monthly												
Min.	426.170	0.000	426.170	0.000	426.760	17.90	426.690	25.79	426.500	3.746	426.580	5.630
Max.	426.300	0.000	429.190	122.7	431.620	624.5	430.620	714.9	429.270	345.6	426.770	29.95
Mean	426.225	0.000	427.650	33.80	427.764	112.7	427.171	75.15	426.917	44.04	426.685	17.65

Annual Runoff in MCM = 1114 Annual Runoff in mm = 375

Peak Observed Discharge = 714.9 cumecs on 02/09/2016 Corres. Water Level :430.62 m

Lowest Observed Discharge = 0.000 cumecs on 01/06/2016 Corres. Water Level :426.3 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	426.770	29.95	426.830	33.19 *	426.870	35.52	426.910	37.86	426.680	25.40 #	427.055	0.000
2	426.760	29.42	426.830	33.25	426.880	36.11	426.930	39.06	426.680	25.40 *	427.075	0.000
3	426.770	29.95	426.790	31.04	426.880	36.11	426.930	39.06	426.680	25.40 #	427.095	0.000
4	426.770	29.92 *	426.730	27.84	426.880	36.11	426.890	36.69	426.620	4.272	427.095	0.000
5	426.760	29.42	426.820	32.69	426.890	36.67 *	426.890	36.67 *	426.580	3.657	427.095	0.000
6	426.750	28.89	426.900	37.27	426.890	36.69	426.890	36.69	426.580	3.849	427.095	0.000
7	426.750	28.89	426.820	32.69	426.890	36.69	426.880	36.11	426.580	3.900	427.095	0.000
8	426.750	28.89	426.820	32.63 *	426.880	36.11	426.830	33.25	426.580	3.922	427.095	0.000
9	426.780	30.50	426.820	32.69	426.880	36.11	426.870	35.46	426.570	3.368 *	427.075	0.000
10	426.790	31.04	426.830	33.25	426.870	35.52	426.870	35.52	426.560	3.117	427.075	0.000
11	426.800	31.53 *	426.870	35.52	426.890	36.69	426.830	33.25	426.560	3.129	427.075	0.000
12	426.820	32.63 *	426.850	34.38	426.910	37.87 *	426.820	32.63 *	426.560	3.191	427.045	0.000
13	426.810	31.59	426.800	31.59	426.970	41.49	426.820	32.63 *	426.570	3.216	427.035	0.000
14	426.790	31.04	426.810	32.13	426.970	41.49	426.820	32.69	426.570	3.368 *	427.025	0.000
15	426.780	30.50	426.830	33.19 *	426.950	40.26	426.770	29.95	426.570	3.368	427.015	0.000
16	426.770	29.95	426.830	33.25	426.930	39.06	426.770	29.95	426.570	3.368 *	427.015	0.000
17	426.780	30.50	426.830	33.25	426.920	38.46	426.770	29.95	426.570	3.211	427.035	0.000
18	426.770	29.92 *	426.830	33.25	426.910	37.86	426.750	28.89	426.550	3.023	427.035	0.000
19	426.770	29.95	426.840	33.82	426.910	37.87 *	426.750	28.88 *	426.550	3.007	427.025	0.000
20	426.770	29.95	426.870	35.52	426.900	37.27	426.750	28.89	426.560	3.094	427.025	0.000
21	426.770	29.95	426.870	35.52	426.910	37.86	426.730	27.84	426.560	2.995	427.025	0.000
22	426.770	29.95	426.880	36.07 *	426.910	37.86	426.730	27.84	426.560	3.052	427.025	0.000
23	426.810	32.13	426.890	36.69	426.910	37.86	426.720	27.33	426.550	2.952 *	427.025	0.000
24	426.810	32.13	426.880	36.11	426.910	37.86	426.690	25.79	426.550	3.034	427.025	0.000
25	426.820	32.63 *	426.900	37.27	426.910	37.86	426.690	25.79	426.550	2.856	427.025	0.000
26	426.820	32.69	426.920	38.48 *	426.910	37.87 *	426.690	25.88 *	426.520	0.000	427.025	0.000
27	426.810	32.13	426.950	40.26	426.910	37.86	426.690	25.79	426.500	0.000	427.025	0.000
28	426.840	33.82	426.950	40.26	426.910	37.86	426.680	25.40 *	426.490	0.000	427.025	0.000
29	426.840	33.82	426.920	38.48 *			426.680	25.29	426.510	0.000	427.025	0.000
30	426.830	33.25	426.890	36.69			426.680	25.29	426.520	0.000	426.995	0.000
31	426.830	33.25	426.890	36.05			426.680	25.29			426.955	0.000
en-Daily Mea												
I Ten-Daily	426.765	29.69	426.819	32.66	426.881	36.16	426.889	36.64	426.611	10.23	427.085	0.000
II Ten-Daily	426.786	30.76	426.836	33.59	426.926	38.83	426.785	30.77	426.563	3.198	427.033	0.000
III Ten-Daily	426.814	32.34	426.904	37.44	426.910	37.86	426.696	26.14	426.531	1.489	427.016	0.000
Monthly												
Min.	426.750	28.89	426.730	27.84	426.870	35.52	426.680	25.29	426.490	0.000	426.955	0.000
Max.	426.840	33.82	426.950	40.26	426.970	41.49	426.930	39.06	426.680	25.40	427.095	0.000
Mean	426.789	30.98	426.855	34.66	426.905	37.60	426.787	31.02	426.568	4.971	427.044	0.000

Peak Computed Discharge = 624.5 cumecs on 04/08/2016 Corres. Water Level :431.62 m

Lowest Computed Discharge = 2.952 cumecs on 23/04/2017 Corres. Water Level :426.55 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

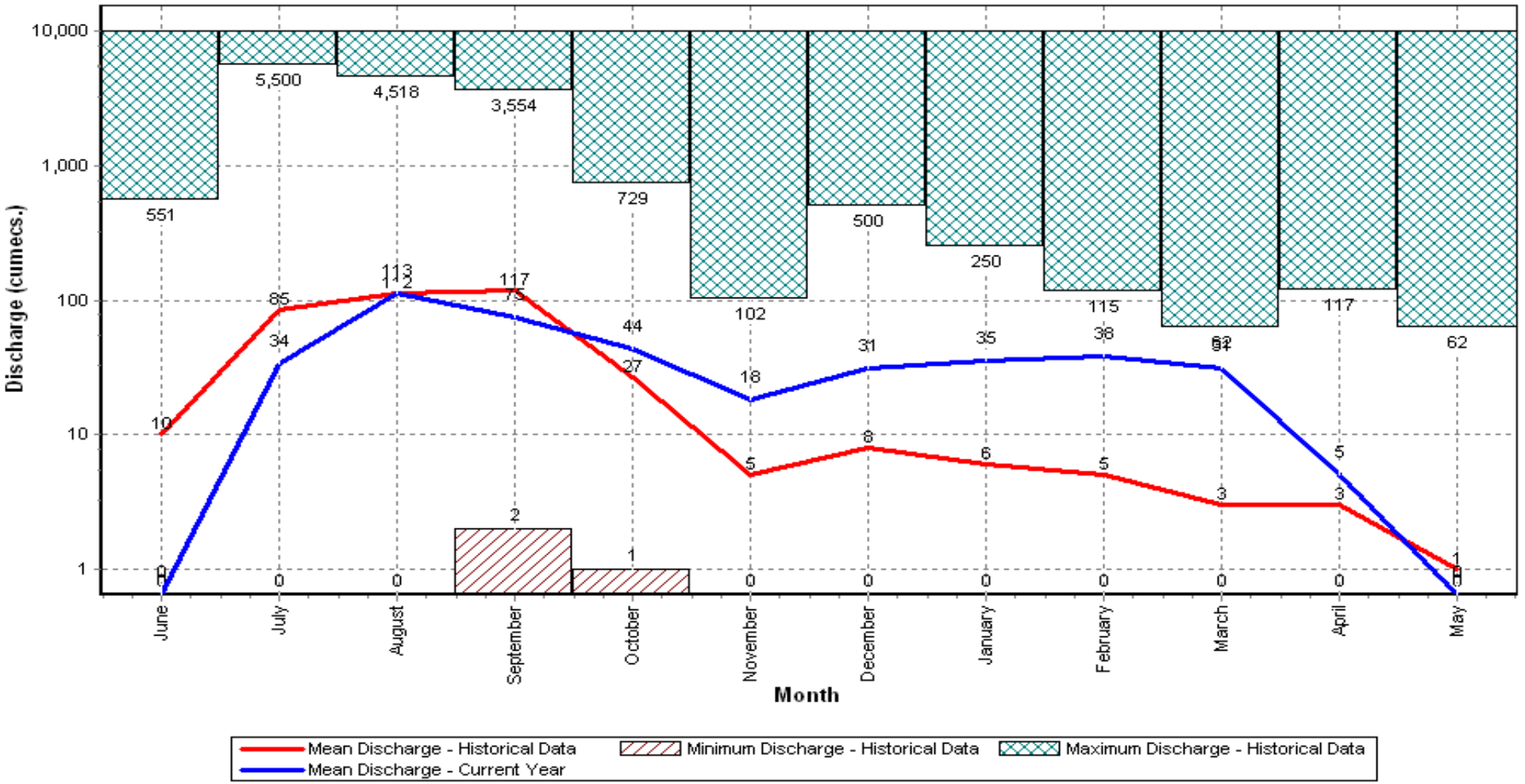
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : KEOLARI (AGH40V3) | **Data considered : 1987-2017** | **Division : Wainganga Div., Nagpur**

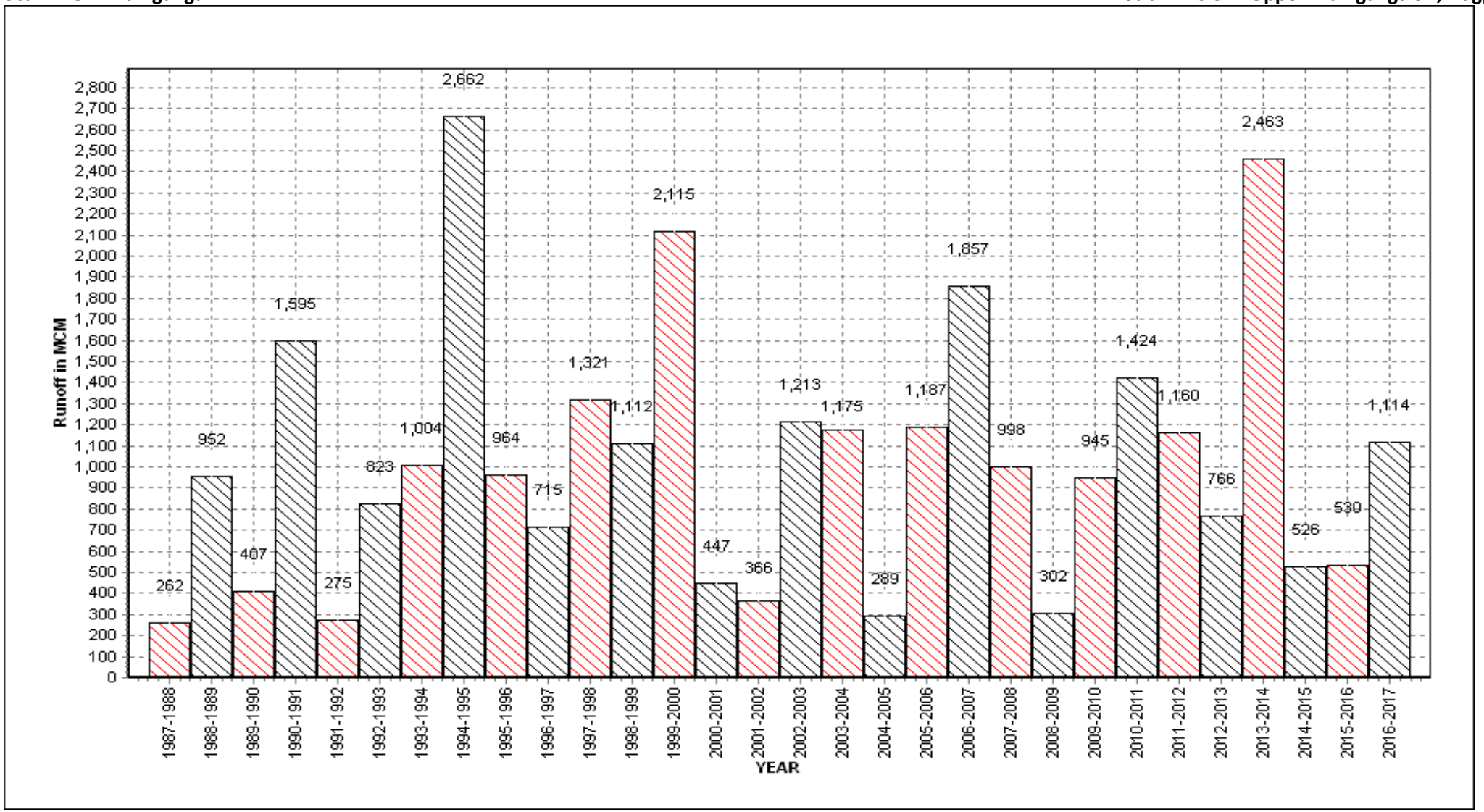
Local River : Wainganga | **Sub-Division : Upper Wainganga SD, Nagpur**



Annual Runoff Values for the period: 1987 - 2017

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Note: Missing values have not been considered while arriving at Annual Runoff

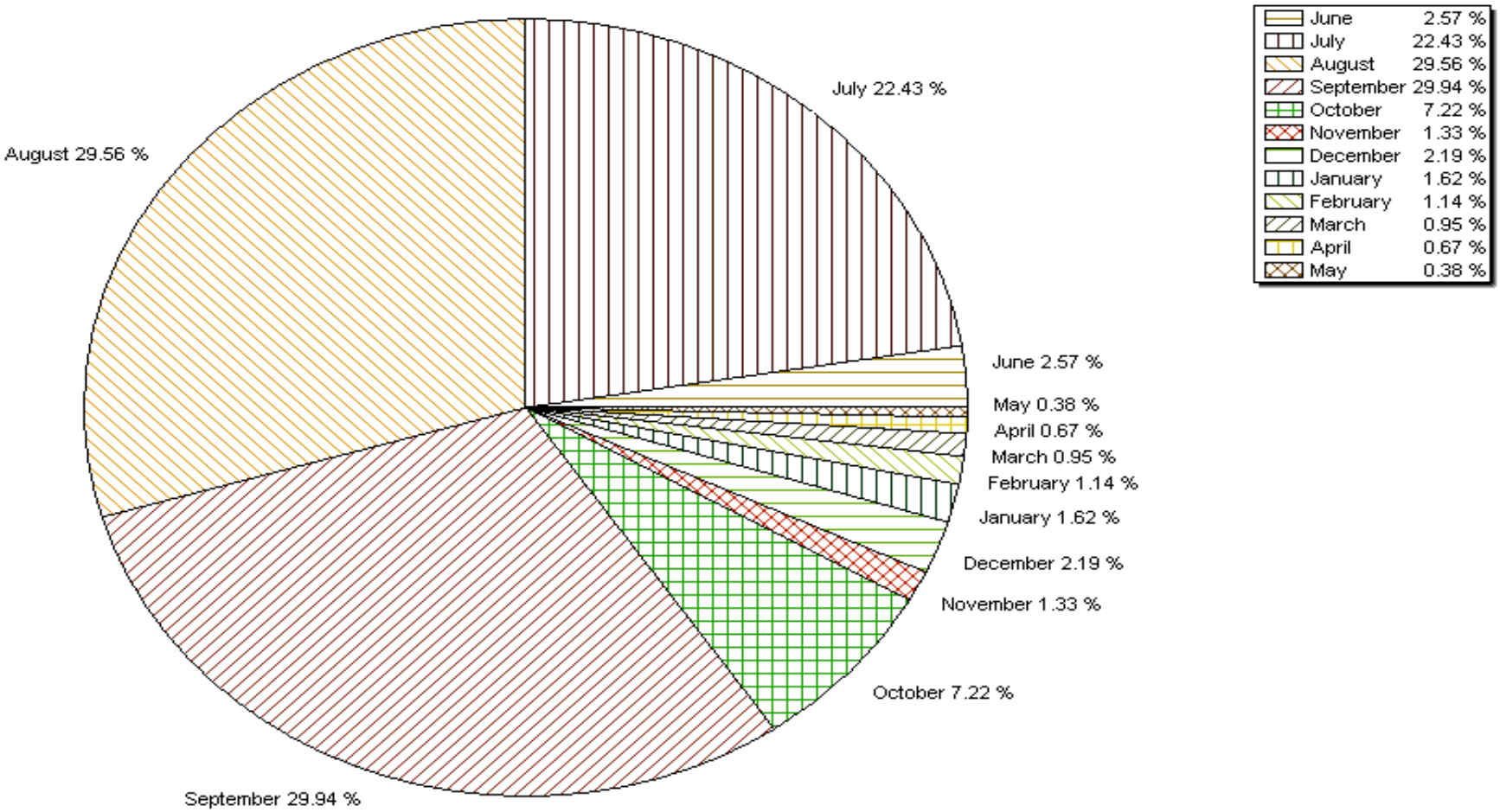
Monthly Average Runoff based on period : 1987-2016

Station Name : KEOLARI (AGH40V3)

Local River : Wainganga

Division : Wainganga Div., Nagpur

Sub-Division : Upper Wainganga SD, Nagpur



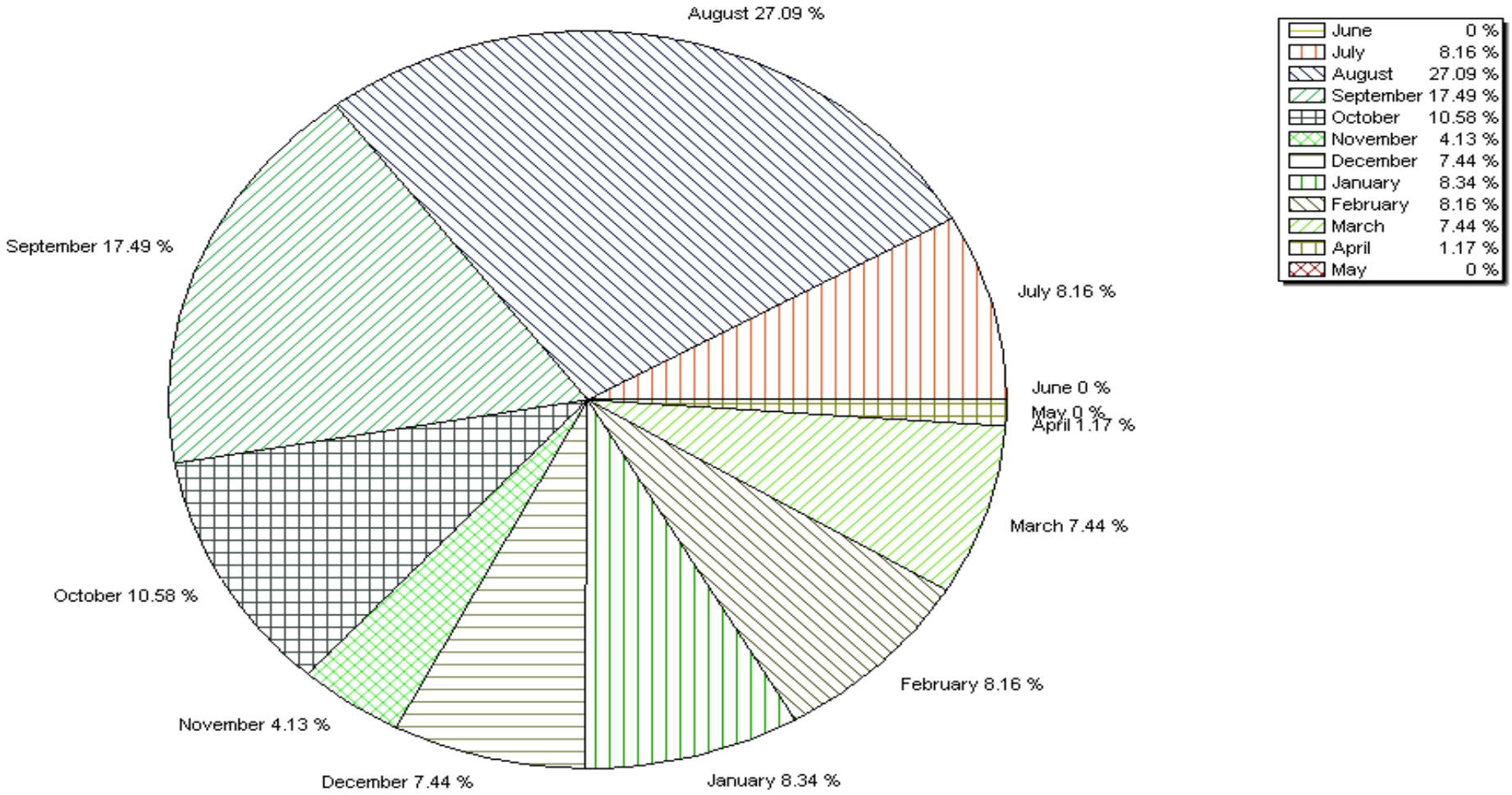
Monthly Runoff for the Year : 2016-2017

Station Name : KEOLARI (AGH40V3)

Division : Wainganga Div., Nagpur

Local River : Wainganga

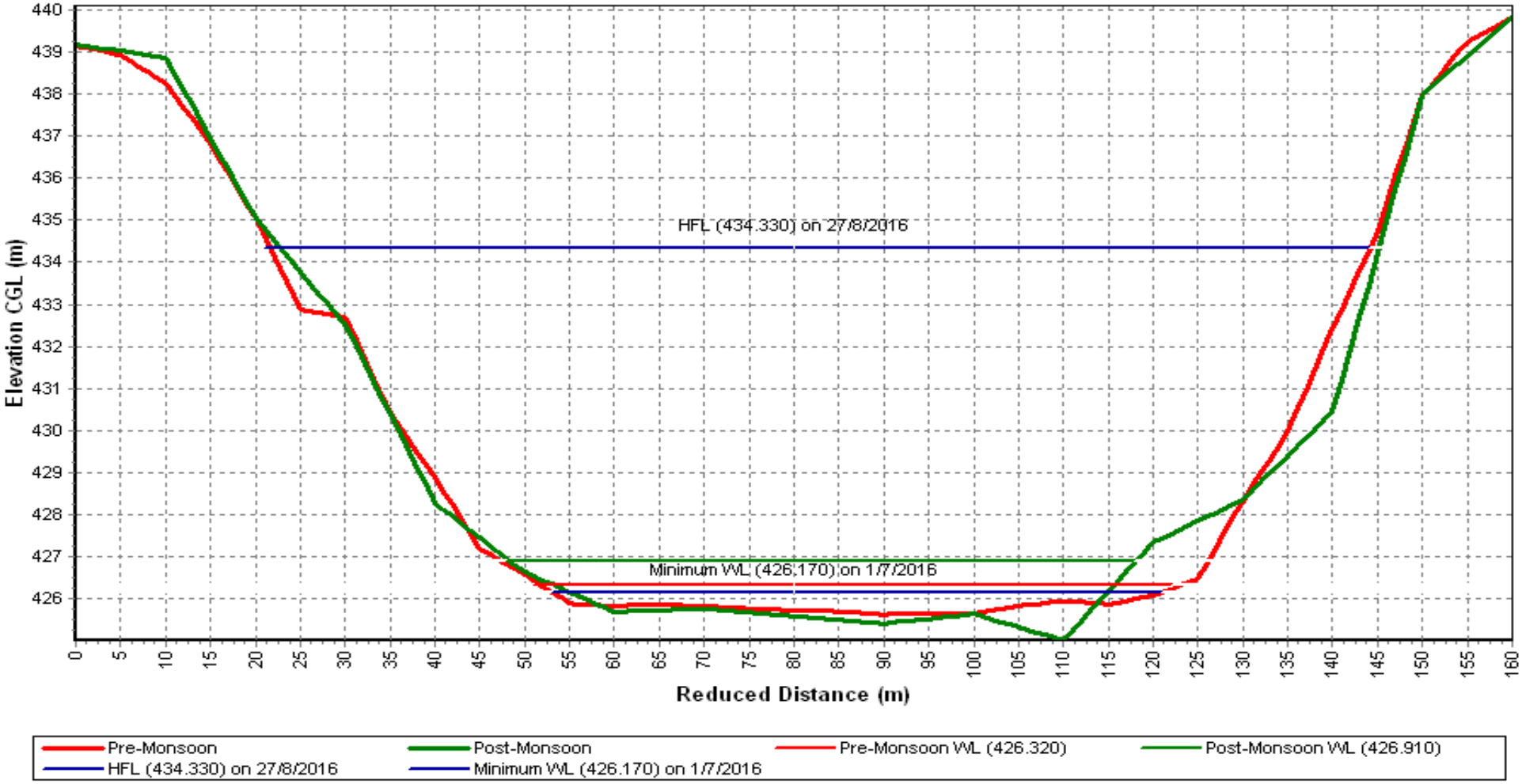
Sub-Division : Upper Wainganga SD, Nagpur



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

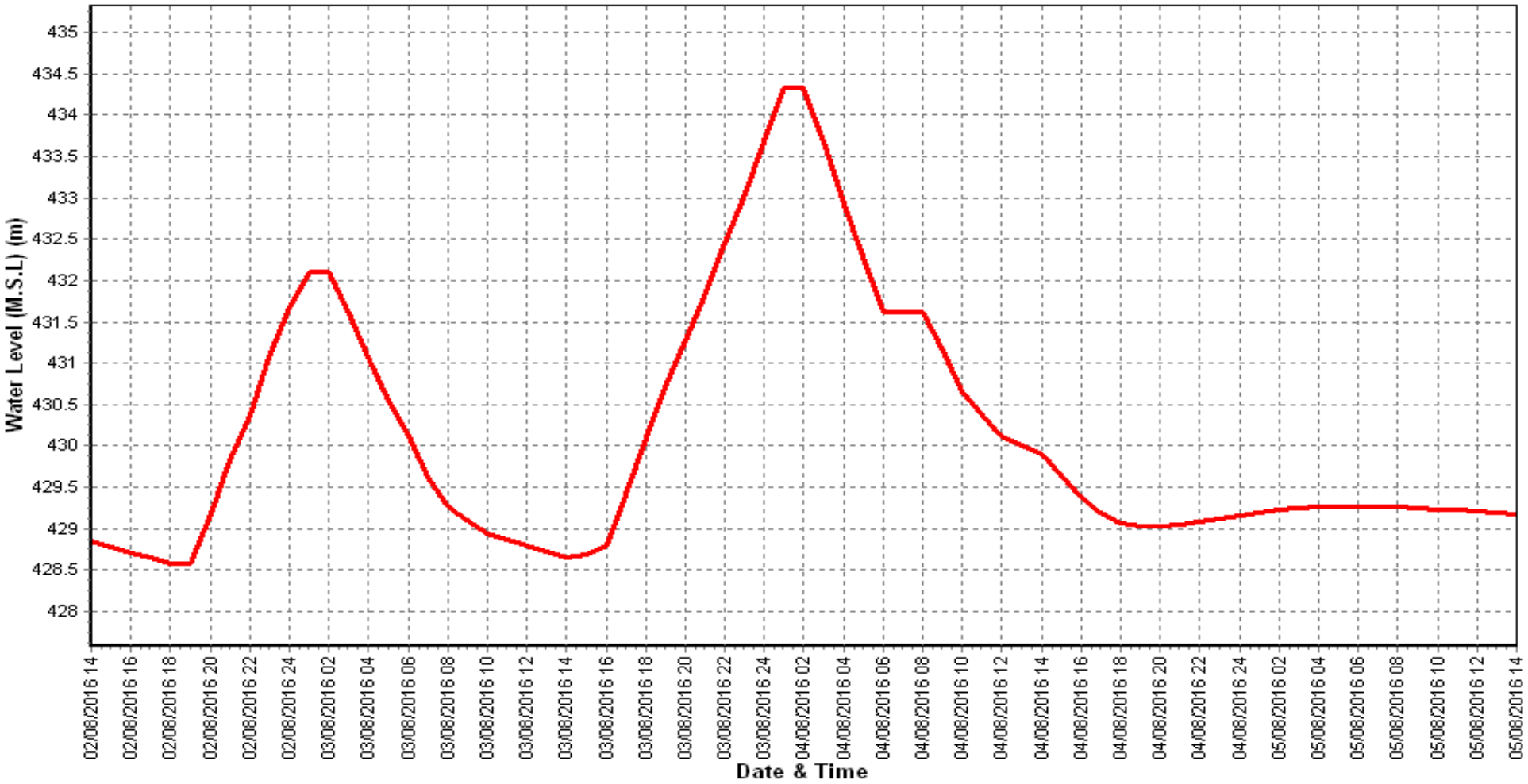
Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

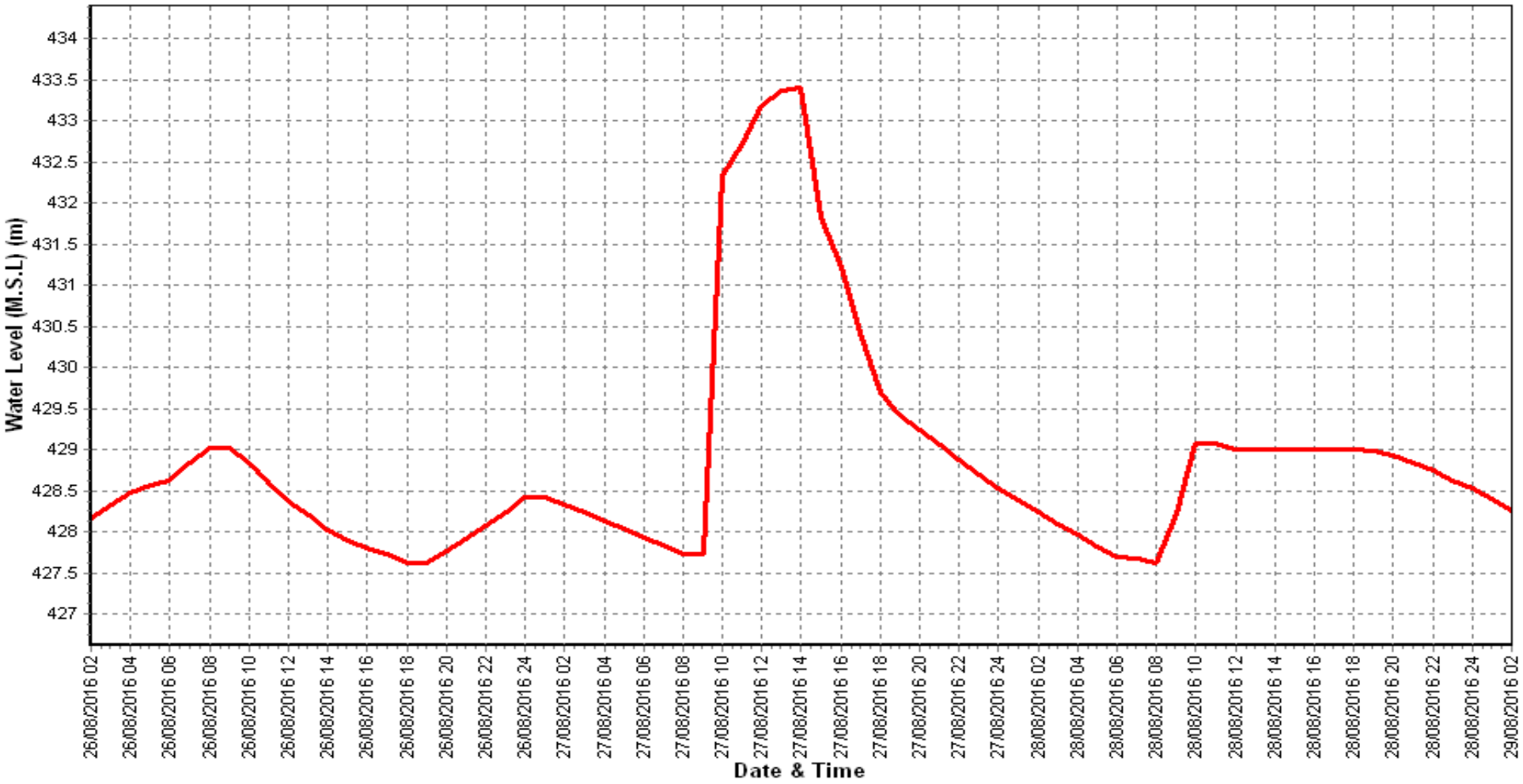


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**

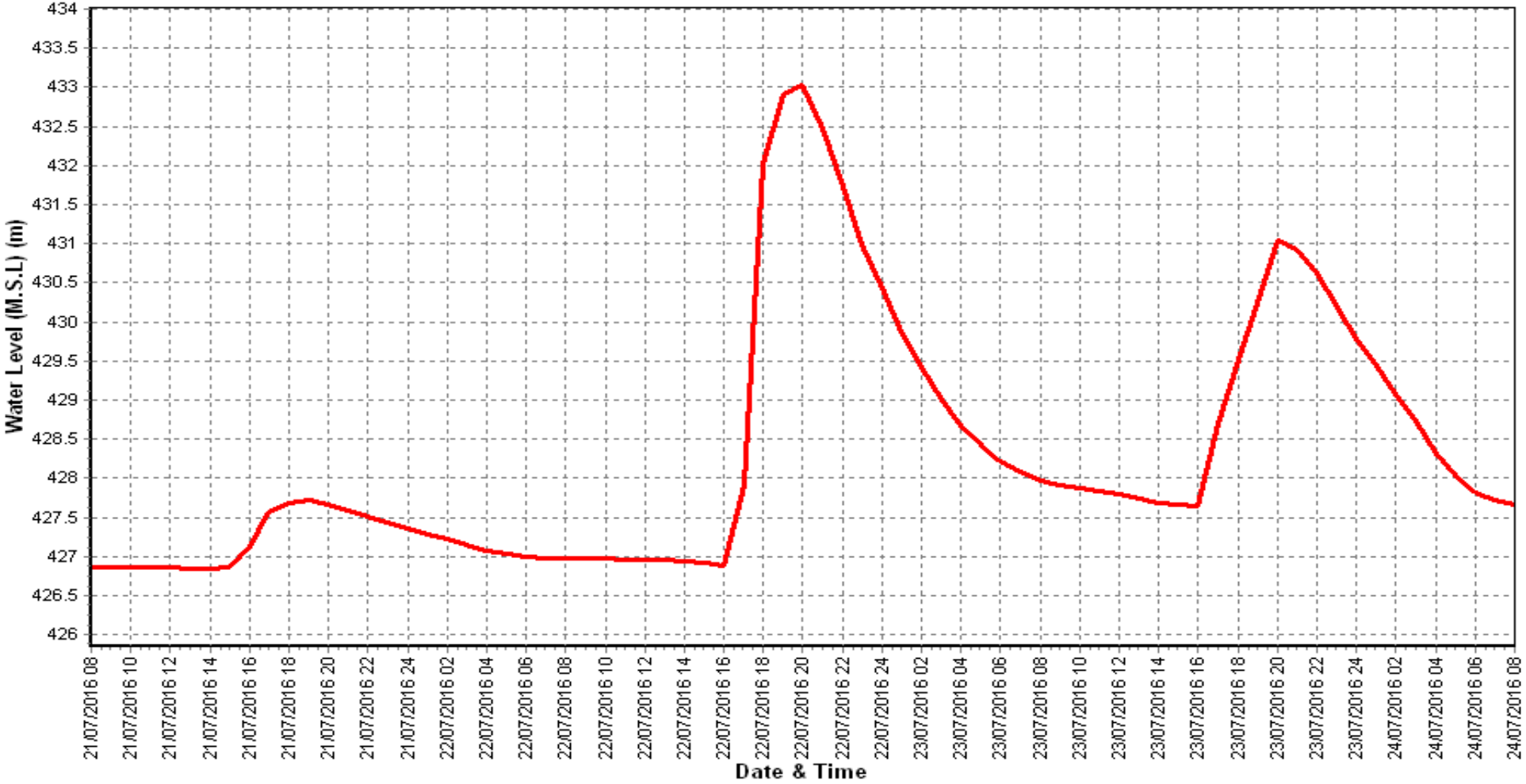


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : KEOLARI (AGH40V3) **Division : Wainganga Div., Nagpur**

Local River : Wainganga **Sub-Division : Upper Wainganga SD, Nagpur**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Mancherial**		**Code**	**: AG000J3**	
State	: Telangana		District	Adilabad	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: -		Sub Tributary	:	
Sub-Sub Tributary	: -		Local River	: Godavari	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Manjira SD, Nizamabad	
Drainage Area	: 102900 Sq. Km.		Bank	: Left	
Latitude	: 18°50'08"		Longitude	: 79°27'00"	
Zero of Gauge (m)	: 124.316 (m.s.l) 124.316 (m.s.l)		01.06.2010 03.07.1964	- 31.05.2010	
	Opening Date		Closing Date		
Gauge	: 01.03.1964		**HFL During 2016-17**	**: 132.436**	
			Corres.Discharge	**: 9849.854 Cumecs(Estimated)**	
Discharge	: 03.07.1964		**Date& Time of Occurance**	**: 27.09.2016 : 12:00**	
Sediment	: 01.07.1965				
Water Quality	: 01.12.1979				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1966-1967	18538	134.226	05.09.1966	0.924	125.196	29.05.1967
1967-1968	9460	131.721	25.07.1967	0.800	125.176	12.06.1967
1968-1969	4740	129.906	12.08.1968	3.200	125.436	04.06.1968
1969-1970	18138	133.621	09.09.1969	5.300	125.766	29.05.1970
1970-1971	26537	136.486	20.08.1970	6.318	125.711	25.04.1971
1971-1972	6306	130.336	28.08.1971	2.018	125.636	28.05.1972
1972-1973	1490	128.206	04.07.1972	0.117	125.341	25.05.1973
1973-1974	14136	133.111	24.08.1973	0.180	125.321	02.06.1973
1974-1975	4767	130.021	25.10.1974	7.800	125.836	30.05.1975
1975-1976	11804	132.476	11.09.1975	4.245	126.060	04.05.1976
1976-1977	10527	132.206	03.09.1976	2.592	125.806	29.05.1977
1977-1978	5786	130.196	03.09.1977	2.600	125.816	06.06.1977
1978-1979	5670	130.206	17.08.1978	8.200	125.866	02.06.1978
1979-1980	6860	130.836	04.08.1979	7.958	125.791	30.05.1980
1980-1981	9000	131.526	05.09.1980	9.200	125.791	03.06.1980
1981-1982	5140	130.166	28.09.1981	9.000	125.616	31.05.1982
1982-1983	1698	128.191	22.10.1982	4.500	125.371	31.05.1983
1983-1984	29531	137.846	12.08.1983	3.000	125.336	13.06.1983
1984-1985	377.7	127.261	13.09.1984	3.300	125.696	31.05.1985
1985-1986	871.5	127.666	03.08.1985	1.012	125.531	31.05.1986
1986-1987	10982	131.976	13.08.1986	0.800	125.581	30.05.1987

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	1694	128.441	09.07.1987	0.670	125.556	08.06.1987
1988-1989	20944	135.191	31.07.1988	2.141	125.616	04.06.1988
1989-1990	24900	136.876	25.07.1989	18.00	125.426	05.05.1990
1990-1991	23846	136.211	31.08.1990	8.496	125.516	27.05.1991
1991-1992	6463	130.759	13.07.1991	2.009	125.066	31.05.1992
1992-1993	5066	129.781	05.09.1992	0.925	125.016	09.06.1992
1993-1994	2257	128.641	04.08.1993	0.253	125.066	29.05.1994
1994-1995	2317	128.549	12.07.1994	0.205	125.046	08.06.1994
1995-1996	31820	137.386	20.10.1995	1.607	125.206	16.06.1995
1996-1997	4618	129.821	17.09.1996	4.407	125.336	13.06.1996
1997-1998	552.7	126.961	29.10.1997	0.577	125.096	31.05.1998
1998-1999	8209	131.896	18.10.1998	0.288	125.026	12.06.1998
1999-2000	8340	131.061	09.09.1999	2.278	125.416	10.06.1999
2000-2001	15840	133.336	28.08.2000	4.352	125.426	30.05.2001
2001-2002	2805	128.591	12.10.2001	2.017	125.316	04.08.2001
2002-2003	4252	129.331	25.08.2002	0.198	124.836	31.05.2003
2003-2004	4475	129.506	08.08.2003	0.000	124.766	10.06.2003
2004-2005	122.6	125.966	14.07.2004	0.000	124.666	06.05.2005
2005-2006	7376	131.511	23.09.2005	0.000	124.596	13.06.2005
2006-2007	9901	132.791	07.08.2006	0.849	125.046	22.06.2006
2007-2008	611.5	127.106	02.10.2007	3.440	125.236	23.05.2008
2008-2009	2560	128.331	25.09.2008	0.000	125.236	03.07.2008
2009-2010	296.8	126.716	04.09.2009	0.000	124.786	01.04.2010
2010-2011	7085	131.301	08.09.2010	0.000		02.07.2010
2011-2012	2133	127.676	30.08.2011	1.411	124.966	11.05.2012
2012-2013	1181	127.376	11.09.2012	0.000	124.856	20.05.2013
2013-2014	5748	129.756	24.07.2013	0.000	124.816	12.06.2013
2014-2015	2212	127.681	08.09.2014	0.000	124.866	29.04.2015
2015-2016	369.1	126.486	18.09.2015	0.000	124.836	08.06.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1	124.826	0.000	125.349	66.74	125.576	93.06	125.516	86.10	128.566	3672	127.091	78.03
2	124.826	0.000	125.176	26.98	125.576	92.59	125.941	151.7	127.036	8863 *	125.716	76.27
3	124.826	0.000	125.306	49.12 *	125.546	88.33	125.801	124.3	132.241	9226	125.726	77.87
4	124.836	0.000	125.323	65.78	127.616	1020 #	125.606	95.68 *	129.041	4357	125.716	76.57
5	124.836	0.000	125.186	27.52	126.491	380.0	125.486	74.82 *	128.371	3403	125.706	75.41
6	124.836	0.000	125.126	24.67	126.401	362.7	125.496	81.64	128.146	2903	125.706	75.76 *
7	124.866	0.000	125.106	27.82 *	125.686	111.3 *	125.586	92.79	128.146	2139	125.706	75.76
8	124.866	0.000	125.096	18.91	125.856	136.9	125.566	91.14	128.431	3546	125.706	75.40
9	124.956	4.600	125.096	19.31	125.626	83.67	125.536	86.79	127.856	4424 *	125.586	57.00
10	125.016	10.47	125.676	109.3 *	125.576	92.50	125.526	84.40	129.276	4473	125.586	57.14
11	125.026	10.92	125.706	106.8	125.576	92.74	126.106	218.4 *	127.116	1593 *	125.576	56.40
12	125.026	11.40 *	125.791	124.1	125.556	87.79	125.996	156.6	127.166	1594 *	125.576	56.80
13	125.036	11.40	125.586	92.53	125.556	93.50	125.566	88.38 *	127.166	1594	125.496	19.24 *
14	125.056	12.87	125.369	68.93	125.536	83.14 *	125.426	79.04	127.471	2158	125.416	19.23 *
15	125.056	13.14	125.381	69.89	125.516	79.75 *	125.831	133.9	126.981	1287	125.286	19.21
16	125.046	11.96	125.466	78.05	125.516	84.89	125.856	134.9	126.396	318.8 *	125.276	18.44
17	125.046	12.11	125.446	68.54 *	125.516	84.97	126.226	235.9	125.946	100.2	125.786	85.24
18	125.046	11.83	125.436	77.75	125.546	88.73	125.876	154.4 *	125.916	96.60	125.786	82.84
19	125.076	13.68 *	125.416	75.24	125.536	87.22	125.761	121.8	126.046	104.7	125.596	59.54
20	125.076	13.68	125.456	79.44	125.516	85.20	126.086	164.9	125.856	243.2 *	125.516	52.21 *
21	125.106	15.82	125.466	80.70	125.516	79.75 *	126.106	172.2	126.186	243.8 *	125.506	52.20
22	125.106	15.66	125.706	104.0	125.511	94.88	125.961	155.4	125.586	60.41	125.416	43.29
23	125.096	15.28	125.666	101.1	125.506	82.94	126.576	400.9	125.586	54.29 *	125.416	43.12
24	125.096	15.53	125.476	73.22 *	125.526	85.42	126.146	188.1	125.586	54.29	125.416	42.54
25	125.096	16.34	125.886	148.2	125.536	84.38	128.166	1503 *	125.766	82.72	125.416	42.87
26	125.096	15.40 *	126.361	355.8	125.526	85.81	130.876	6070	125.746	80.18	125.416	43.01
27	125.096	15.40	126.016	194.5	125.506	81.72	132.211	8998	125.841	86.62	125.416	46.23 *
28	125.096	16.81	126.016	194.3	125.496	76.44 *	129.221	2767 #	125.576	55.78	125.436	46.23
29	125.096	17.19	125.621	95.62	125.496	81.17	128.106	1445 #	125.586	57.42	125.436	46.34
30	125.126	22.32	125.501	84.82	125.516	85.53	127.256	762.1 #	125.586	57.46 *	125.426	44.81
31			125.616	97.56 *	125.516	85.60			125.586	57.46		
Daily Mean												
Ten-Da	124.869	1.507	125.244	43.62	125.995	246.1	125.606	96.94	128.711	4701	125.824	72.52
Ten-Da	125.049	12.30	125.505	84.13	125.537	86.79	125.873	148.8	126.606	908.8	125.531	46.91
Ten-Da	125.101	16.57	125.757	139.1	125.514	83.97	128.063	2246	125.694	80.95	125.430	45.06
Monthly												
Min.	124.826	0.000	125.096	18.91	125.496	76.44	125.426	74.82	125.576	54.29	125.276	18.44
Max.	125.126	22.32	126.361	355.8	127.616	1020	132.211	8998	132.241	9226	127.091	85.24
Mean	125.006	10.13	125.510	90.56	125.676	137.2	126.514	830.7	126.961	1838	125.595	54.83

Annual Runoff in MCM = 8081 Annual Runoff in mm = 79

Peak Observed Discharge = 9226 cumecs on 03-10-2016 Corres. Water Level :132.241 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016 Corres. Water Level :124.826 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	125.426	44.31	125.276	22.93 *	125.256	21.37	125.116	10.17	124.956	3.305	124.816	0.000
2	125.426	44.24	125.276	22.93	125.256	21.18	125.116	9.917	124.956	3.286 *	124.816	0.000
3	125.426	44.72	125.276	24.58	125.256	21.04	125.116	10.01	124.956	3.286	124.816	0.000
4	125.416	44.19 *	125.276	24.55	125.246	18.69	125.116	9.999	124.946	2.712	124.816	0.000
5	125.416	44.19	125.276	24.64	125.246	19.10 *	125.116	10.00 *	124.936	1.742 *	124.826	0.000
6	125.416	42.95	125.276	24.54	125.246	19.10	125.116	10.00	124.926	1.742	124.826	0.000
7	125.406	42.01	125.276	24.56	125.236	16.17	125.126	11.32	124.926	1.746	124.826	0.000
8	125.406	41.71	125.276	24.21 *	125.236	16.47	125.126	11.37	124.916	0.817	124.826	0.000
9	125.396	40.77	125.276	24.21	125.226	16.06	125.136	11.56	124.916	0.468 *	124.816	0.000
10	125.396	40.82	125.276	24.02	125.166	11.27	125.136	11.56	124.916	0.468	124.816	0.000
11	125.396	40.74 *	125.276	24.14	125.156	11.42	125.136	11.44	124.896	0.000	124.816	0.000
12	125.396	40.74 *	125.276	24.33	125.156	11.87 *	125.076	6.974 *	124.886	0.000	124.816	0.000
13	125.396	40.74	125.276	24.28	125.156	11.87	124.996	6.970	124.856	0.000	124.816	0.000
14	125.396	40.96	125.276	24.33 *	125.146	11.33	124.996	7.004	124.836	0.000	124.826	0.000
15	125.396	40.85	125.276	24.33 *	125.146	11.32	124.996	6.963	124.826	0.000	124.836	0.000
16	125.386	39.35	125.276	24.33	125.146	11.49	125.016	7.863	124.816	0.000	124.846	0.000
17	125.386	39.32	125.276	24.32	125.136	10.69	125.076	9.238	124.816	0.000	124.836	0.000
18	125.376	38.11 *	125.266	23.50	125.136	10.79	125.076	9.319	124.806	0.000	124.836	0.000
19	125.376	38.11	125.266	23.15	125.136	10.75 *	125.076	9.051 *	124.816	0.000	124.836	0.000
20	125.376	38.11	125.266	22.96	125.136	10.75	125.076	9.051	124.816	0.000	124.836	0.000
21	125.376	38.32	125.266	22.86	125.126	10.36	125.066	8.952	124.816	0.000	124.836	0.000
22	125.296	27.48	125.266	23.13 *	125.126	10.26	125.066	8.906	124.826	0.000	124.836	0.000
23	125.296	27.49	125.266	23.13	125.286	23.77	125.016	7.906	124.826	0.000	124.826	0.000
24	125.296	27.47	125.266	23.00	125.806	82.18	125.006	7.834	124.836	0.000	124.826	0.000
25	125.296	27.55 *	125.256	21.75	125.216	17.59	124.996	6.722	124.836	0.000	124.816	0.000
26	125.296	27.55	125.256	21.68 *	125.216	15.00 *	124.986	5.453 *	124.836	0.000	124.816	0.000
27	125.296	27.55	125.256	21.68	125.206	15.00	124.986	5.453	124.816	0.000	124.816	0.000
28	125.296	27.43	125.256	21.74	125.206	15.06	124.976	4.621	124.816	0.000	124.816	0.000
29	125.286	26.90	125.256	21.76 *			124.976	4.025 *	124.816	0.000	124.816	0.000
30	125.286	25.24	125.256	21.67			124.966	4.025	124.816	0.000	124.826	0.000
31	125.286	25.25	125.256	21.70			124.966	3.982			124.826	0.000
Daily M												
Ten-Da	125.413	42.99	125.276	24.12	125.237	18.05	125.122	10.59	124.935	1.957	124.820	0.000
Ten-Da	125.388	39.70	125.273	23.97	125.145	11.23	125.052	8.387	124.837	0.000	124.830	0.000
Ten-Da	125.301	28.02	125.260	22.19	125.273	23.65	125.001	6.171	124.824	0.000	124.823	0.000
Monthl												
Min.	125.286	25.24	125.256	21.67	125.126	10.26	124.966	3.982	124.806	0.000	124.816	0.000
Max.	125.426	44.72	125.276	24.64	125.806	82.18	125.136	11.56	124.956	3.305	124.846	0.000
Mean	125.365	36.62	125.269	23.38	125.215	17.21	125.056	8.311	124.865	0.652	124.824	0

Peak Computed Discharge = 8863 cumecs on 02-10-2016 Corres. Water Level :127.036 m

Lowest Computed Discharge = 0.468 cumecs on 09-04-2017 Corres. Water Level :124.916 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

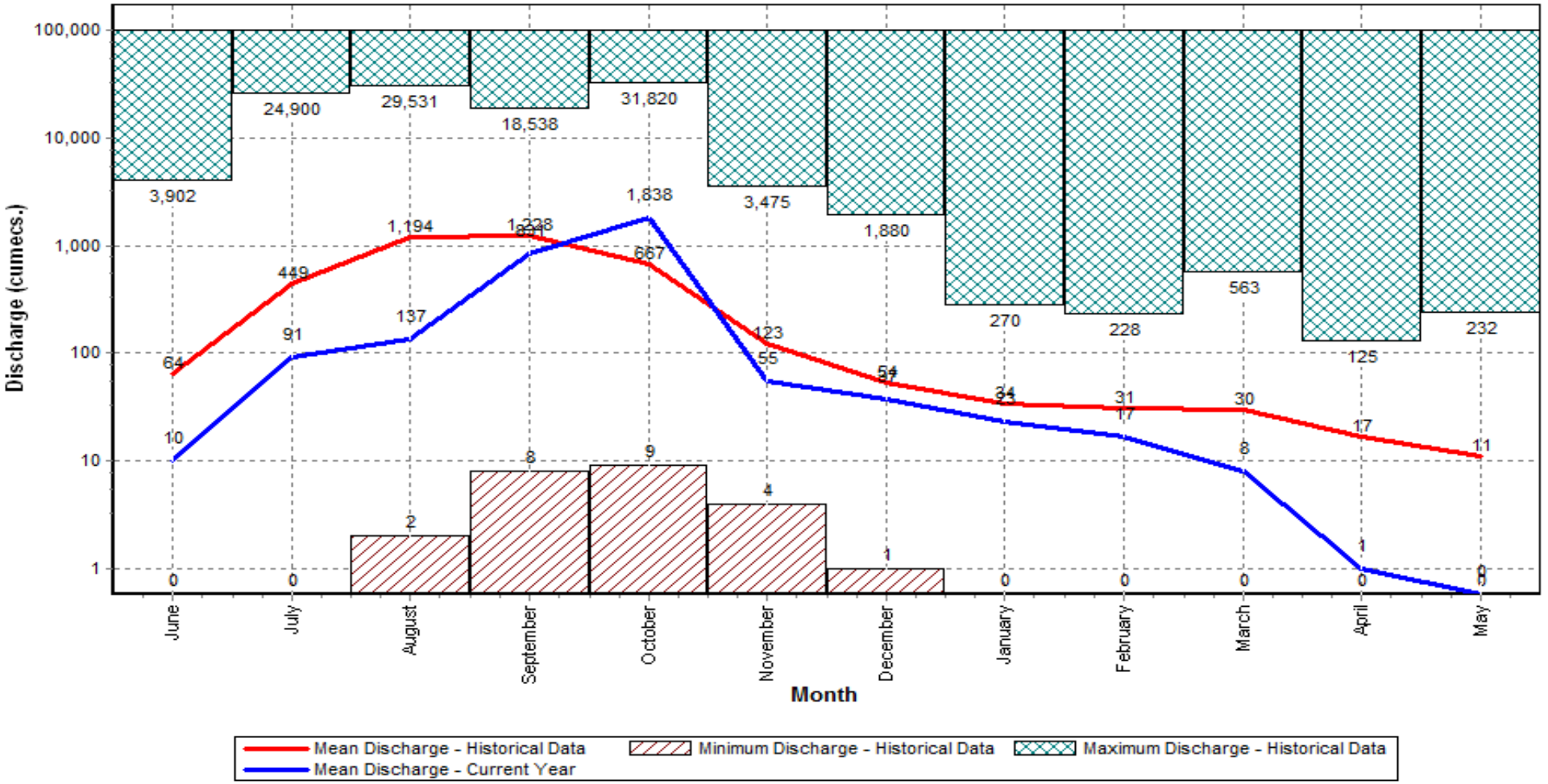
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Mancherial (AG000J3) | **Data considered : 1966-2017** | **Division : U Godavari Div., Hyderabad**

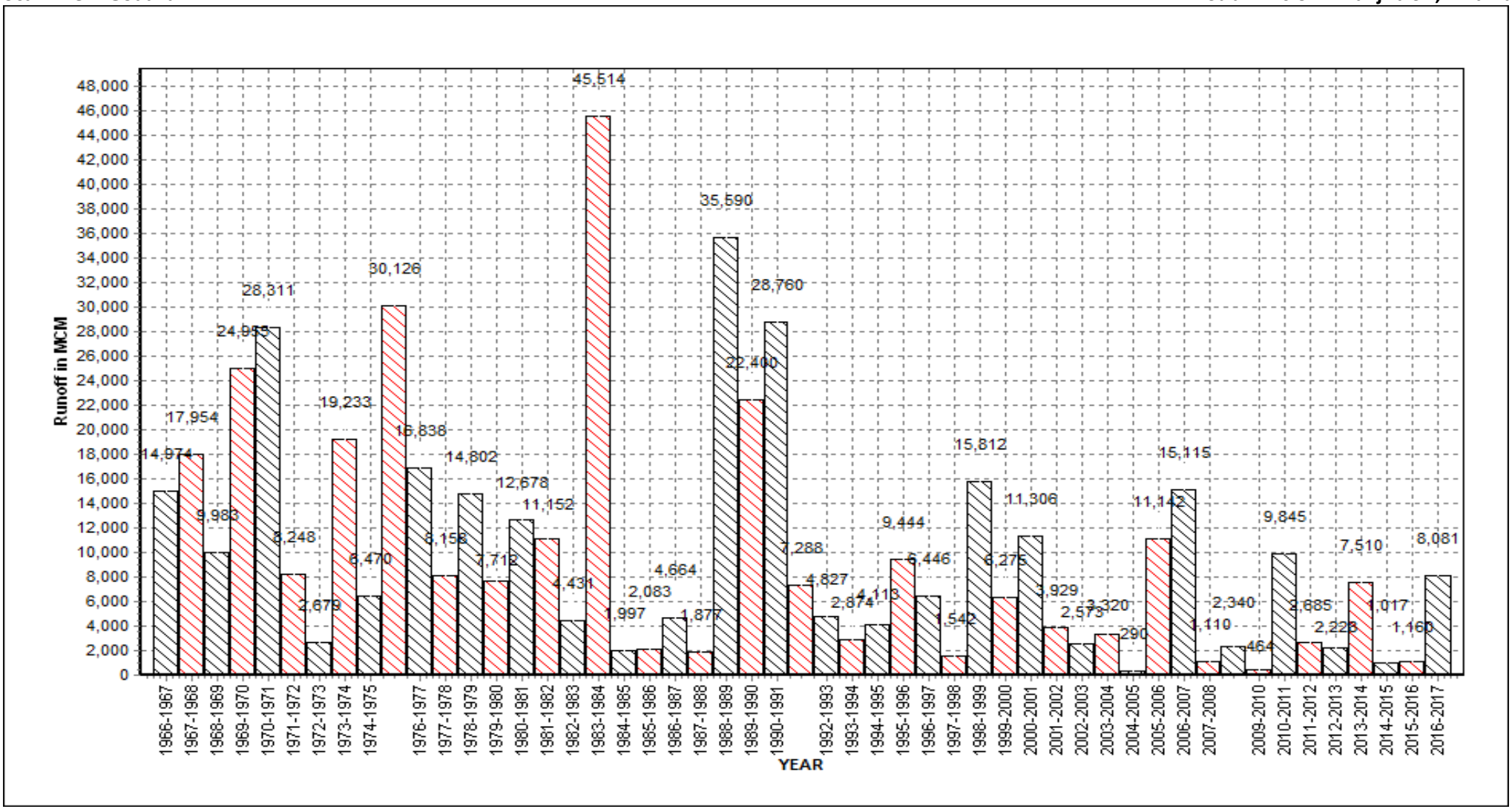
Local River : Godavari | **Sub-Division : Manjira SD, Nizamabad**



Annual Runoff Values for the period: 1966 - 2017

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**



Note: Missing values have not been considered while arriving at Annual Runoff

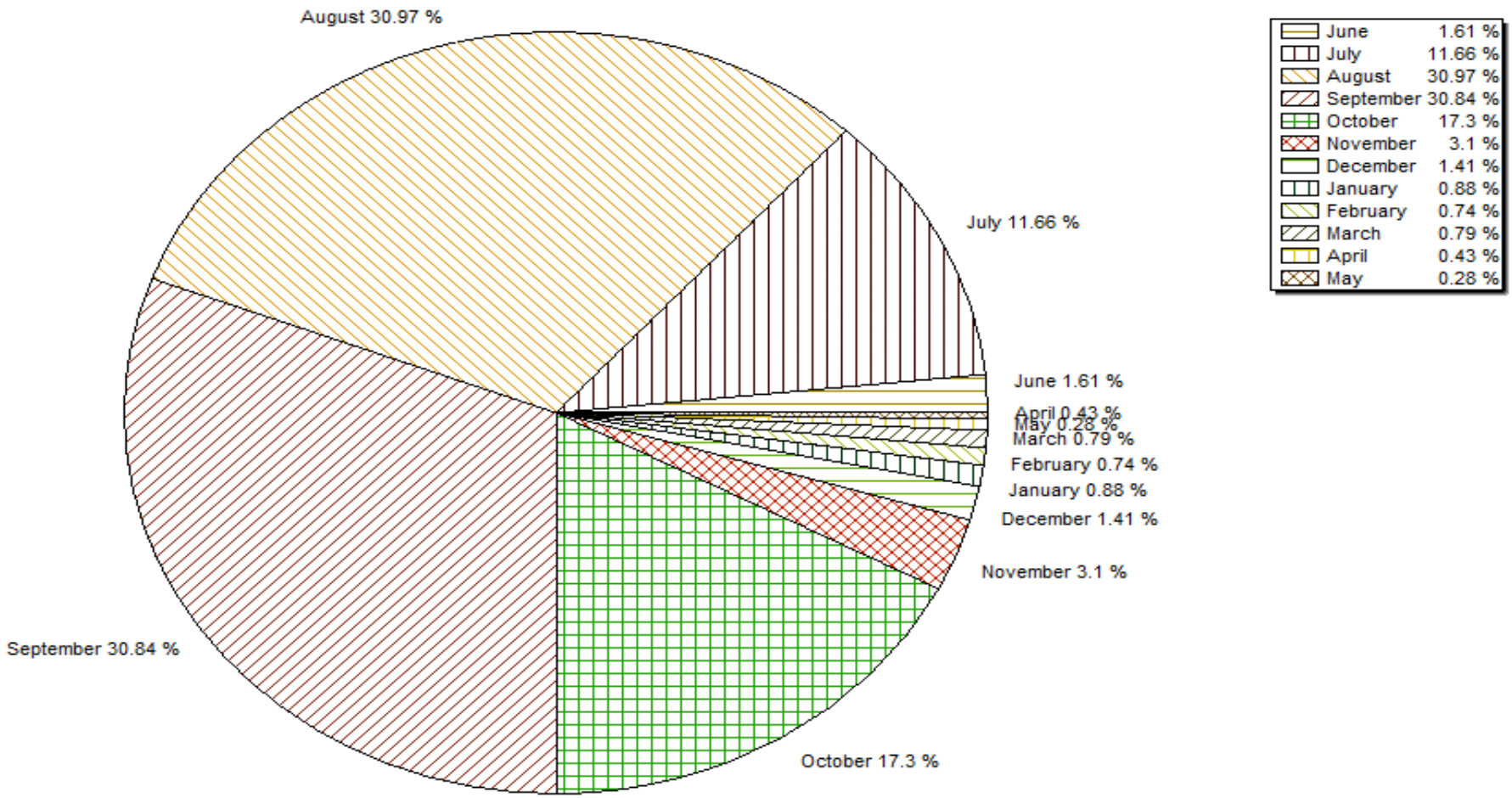
Monthly Average Runoff based on period : 1966-2016

Station Name : Mancherial (AG000J3)

Local River : Godavari

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad



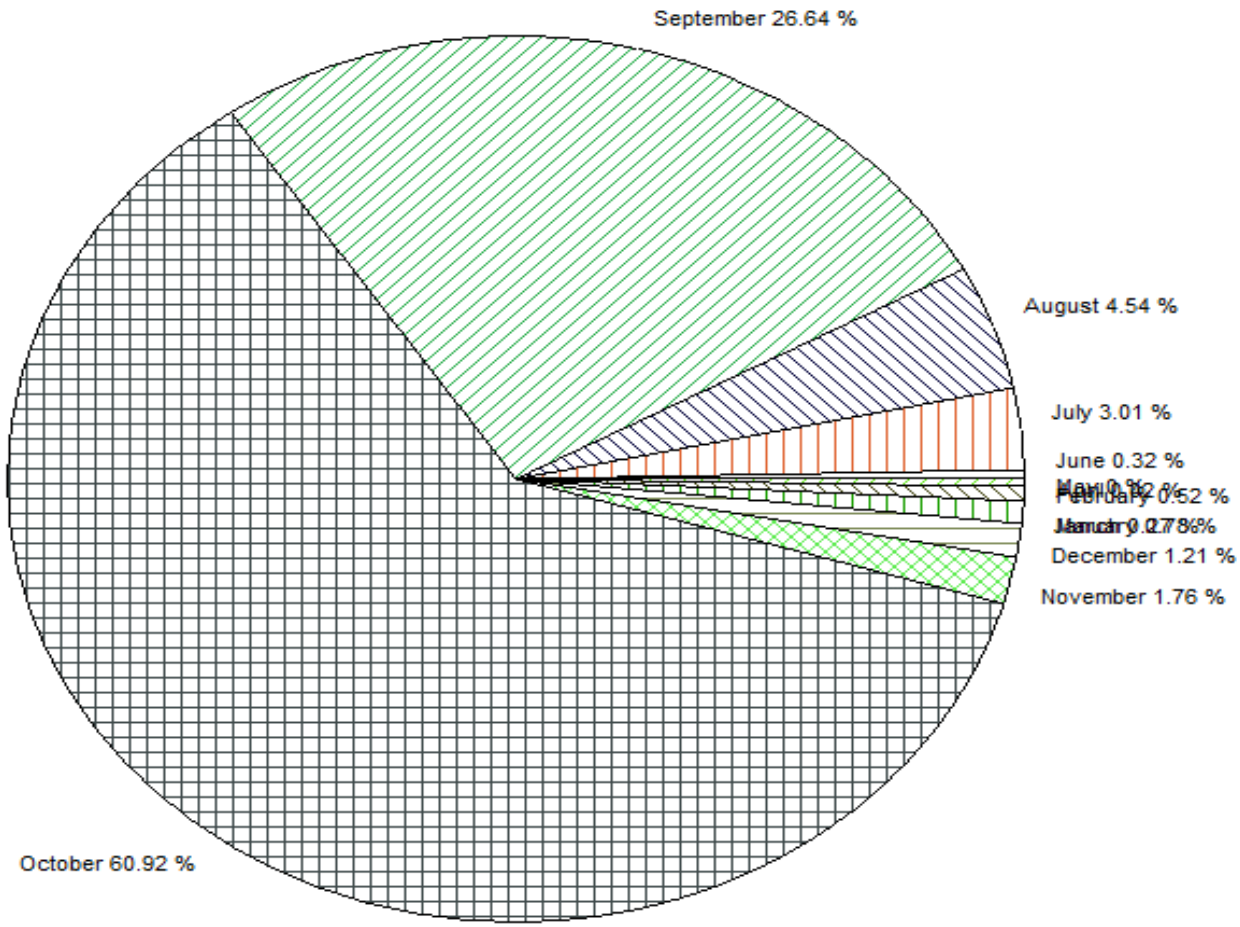
Monthly Runoff for the Year : 2016-2017

Station Name : Mancherial (AG000J3)

Local River : Godavari

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad

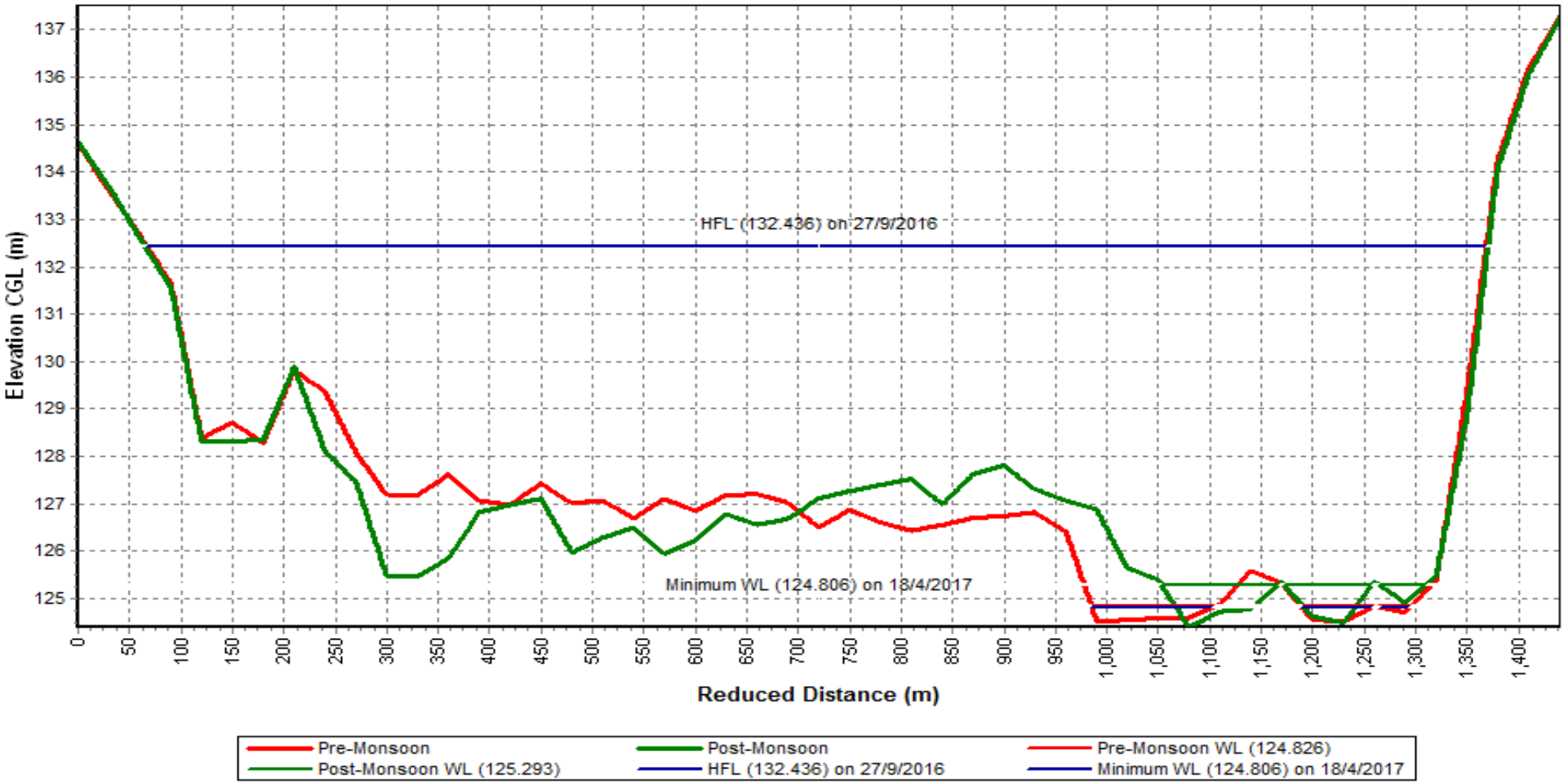


June	0.32 %
July	3.01 %
August	4.54 %
September	26.64 %
October	60.92 %
November	1.76 %
December	1.21 %
January	0.78 %
February	0.52 %
March	0.27 %
April	0.02 %
May	0 %

Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

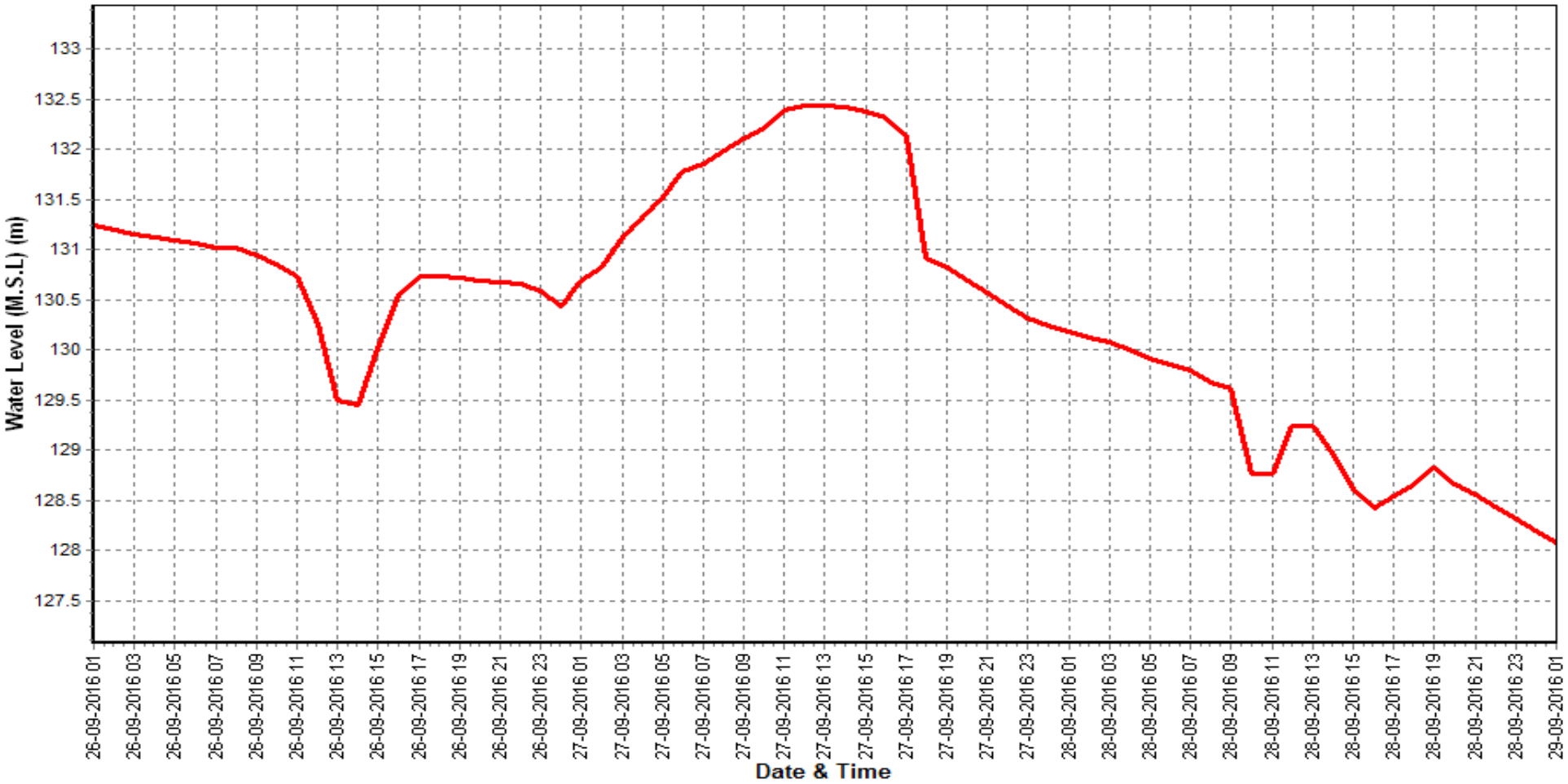
Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

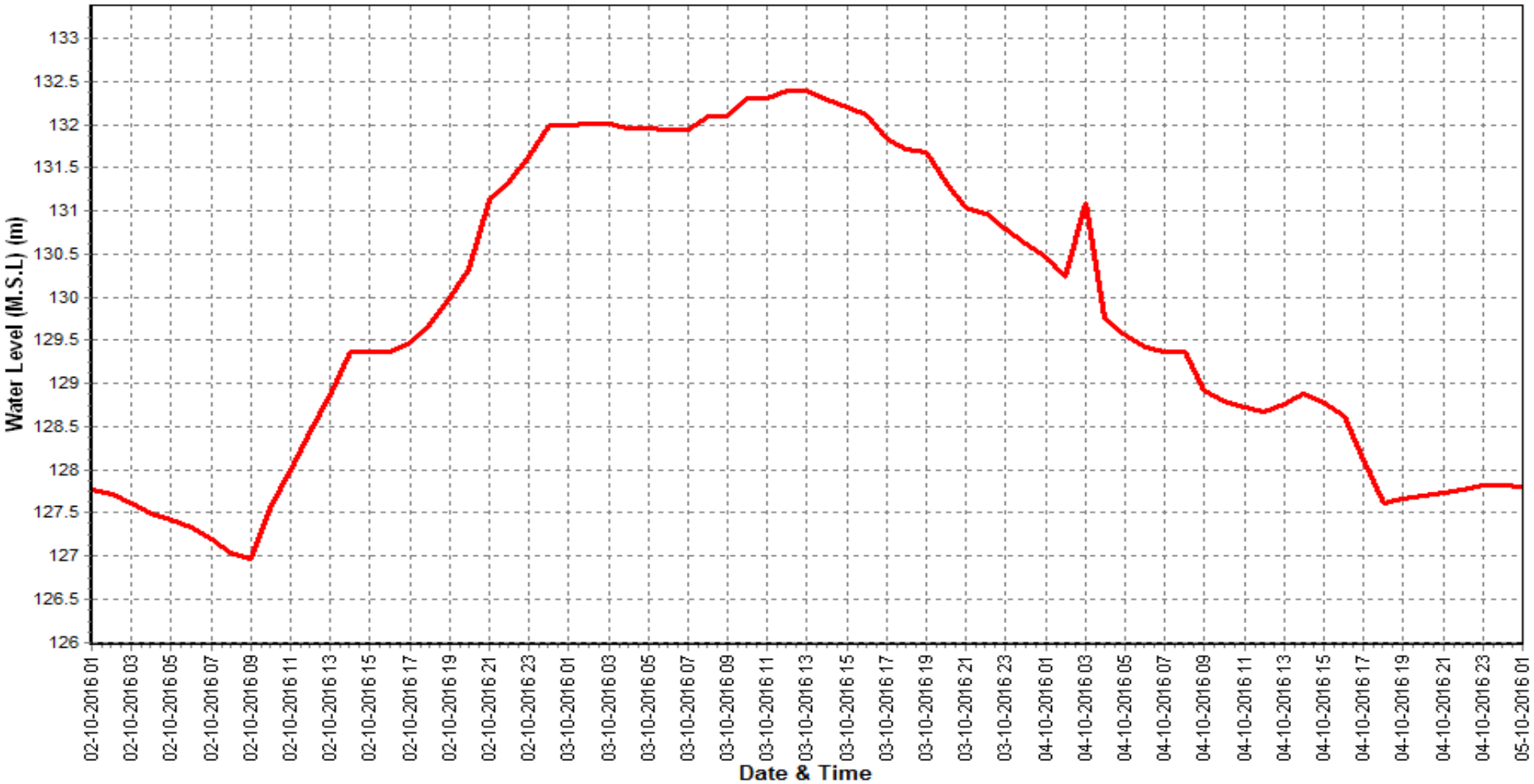


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**

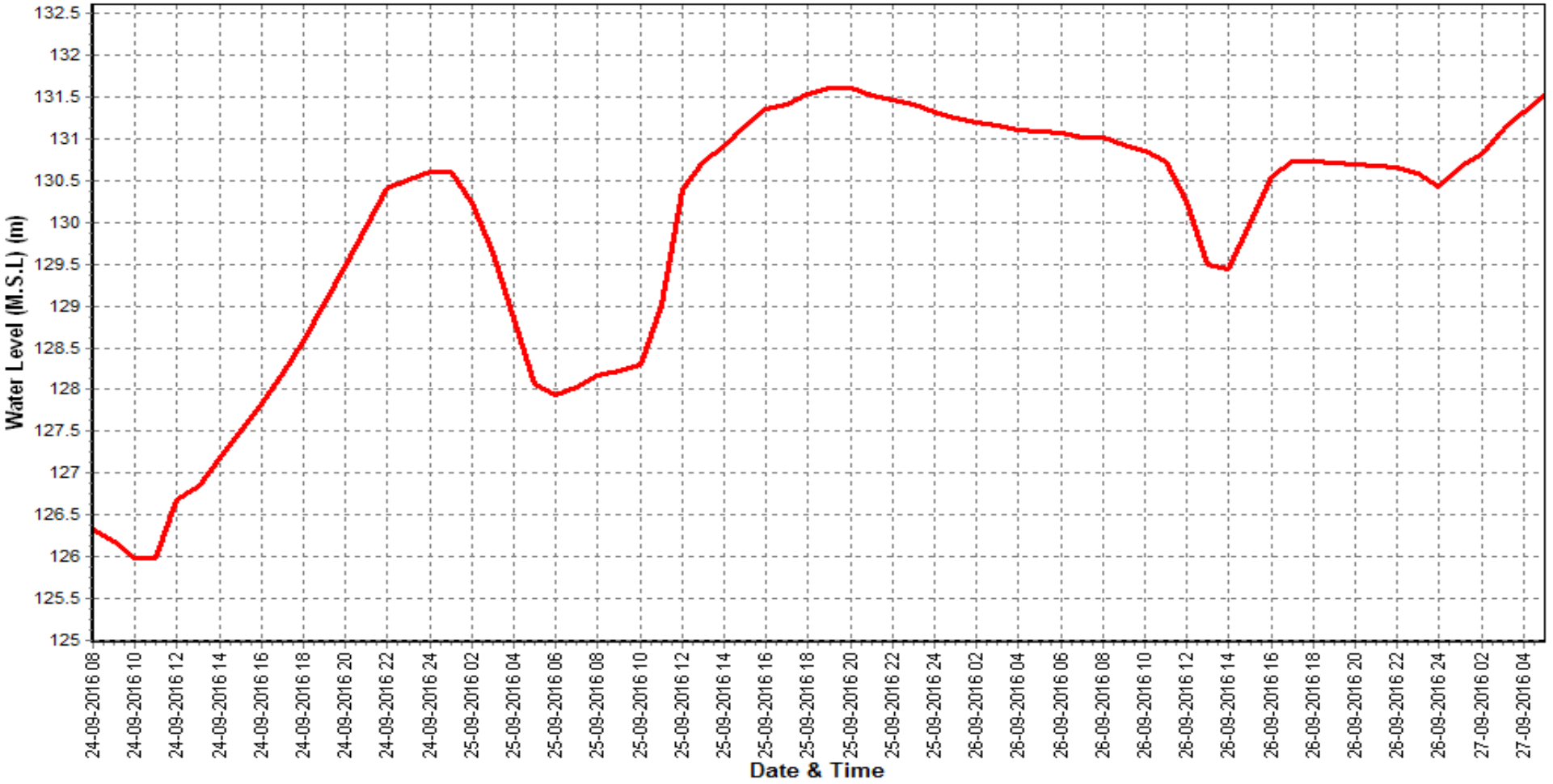


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Mancherial (AG000J3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Manjira SD, Nizamabad**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Gandlapet**		**Code**	**: AGM00G6**	
State	: Telangana		District	Nizamabad	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Peddavagu		Sub Tributary	:	
Sub-Sub Tributary	:		Local River	: Peddavagu	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Manjira SD, Nizamabad	
Drainage Area	: 1360 Sq. Km.		Bank	:	
Latitude	: 18°49'16"		Longitude	: 78°26'17"	
Zero of Gauge (m)	: 312 (m.s.l)	01.06.2010			
	312 (m.s.l)	18.07.1986	- 31.05.2010		
	312 (m.s.l)	01.01.1996	- 31.05.2006		
	Opening Date	Closing Date			
Gauge	: 18.07.1986	**HFL During 2016-17**	**: 315**		
		Corres.Discharge	**: 30.508 Cumecs(Estimated)**		
Discharge	: 10.09.1986	**Date& Time of Occurance**	**: 25.09.2016 : 08:00**		
Sediment	:				
Water Quality	: 31.07.1988				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	9.489	313.760	20.11.1987	0.000		03.01.1988
1988-1989	1326	317.215	20.08.1988	0.000		18.02.1989
1989-1990	1155	317.000	24.07.1989	0.000		25.01.1990
1990-1991	1656	317.900	30.08.1990	0.000		22.02.1991
1991-1992	1240	317.175	12.07.1991	0.000		26.01.1992
1992-1993	29.86	314.160	16.08.1992	0.000		25.01.1993
1993-1994	359.6	315.400	30.07.1993	0.000		25.01.1994
1994-1995	64.97	314.450	07.10.1994	0.000		01.03.1995
1995-1996	1072	317.150	19.10.1995	0.000		11.03.1996
1996-1997	254.0	315.010	02.10.1996	0.000		03.03.1997
1997-1998	8.252	313.885	29.10.1997	0.000		16.01.1998
1998-1999	327.8	315.515	16.10.1998	0.000		22.02.1999
1999-2000	494.8	315.800	10.09.1999	0.000		10.02.2000
2000-2001	808.5	316.420	11.08.2000	0.000		25.01.2001
2001-2002	182.3	314.880	23.08.2001	0.000		16.02.2002
2002-2003	12.90	313.820	25.08.2002	0.000		25.01.2003
2003-2004	23.90	313.940	24.08.2003	0.000		26.01.2004
2004-2005	4.835	313.470	12.09.2004	0.000		25.01.2005
2005-2006	42.22	313.850	22.09.2005	0.000		27.01.2006
2006-2007	457.5	315.300	05.08.2006	0.000		25.01.2007

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2007-2008	0.000	312.770	24.09.2007	0.000		05.02.2008
2008-2009	0.000	313.610	04.10.2008	0.000		25.01.2009
2009-2010	0.000		04.10.2009	0.000		25.01.2010
2010-2011	86.16	313.850	24.09.2010	0.000		25.01.2011
2011-2012	97.32	313.920	29.07.2011	0.000		26.01.2012
2012-2013	136.9	314.140	03.10.2012	0.000	312.265	07.11.2012
2013-2014	175.4	314.100	01.08.2013	0.000		16.02.2014
2014-2015	13.50	312.785	01.09.2014	0.000	312.000	16.12.2014
2015-2016	0.000	312.000	26.03.2016	0.000	312.000	16.10.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000		0.000		0.000	312.050	0.000	313.200	0.000		0.000
2		0.000		0.000	312.810	1.026	312.060	0.000	313.180	0.000		0.000
3		0.000		0.000	312.570	0.935	312.060	0.000	313.160	0.000		0.000
4		0.000		0.000	312.650	0.837	312.060	0.000	313.120	0.000		0.000
5		0.000		0.000	312.520	0.788	312.050	0.000	313.070	0.000		0.000
6		0.000		0.000	312.200	0.000	312.050	0.000	313.000	0.000		0.000
7		0.000		0.000	312.180	0.000	312.050	0.000	312.950	0.000		0.000
8		0.000		0.000	312.170	0.000	312.050	0.000	312.900	0.000		0.000
9		0.000		0.000	312.150	0.000	312.040	0.000	312.860	0.000		0.000
10		0.000		0.000	312.150	0.000	312.040	0.000	312.840	0.000		0.000
11		0.000		0.000	312.140	0.000	312.050	0.000	312.800	0.000		0.000
12		0.000		0.000	312.130	0.000	312.050	0.000	312.750	0.000		0.000
13		0.000		0.000	312.110	0.000	312.110	0.000	312.700	0.000		0.000
14		0.000		0.000	312.110	0.000	312.190	0.000	312.630	0.000		0.000
15		0.000		0.000	312.110	0.000	312.200	0.000	312.550	0.000		0.000
16		0.000		0.000	312.100	0.000	312.180	0.000	312.480	0.000		0.000
17		0.000		0.000	312.100	0.000	312.170	0.000	312.430	0.000		0.000
18		0.000		0.000	312.090	0.000	312.180	0.000	312.380	0.000		0.000
19		0.000		0.000	312.090	0.000	312.180	0.000	312.360	0.000		0.000
20		0.000		0.000	312.090	0.000	312.170	0.000	312.350	0.000		0.000
21		0.000		0.000	312.090	0.000	312.170	0.000	312.340	0.000		0.000
22		0.000		0.000	312.080	0.000	312.340	0.000	312.330	0.000		0.000
23		0.000		0.000	312.080	0.000	312.590	0.000	312.320	0.000		0.000
24		0.000		0.000	312.070	0.000	314.000	19.86 *	312.310	0.000		0.000
25		0.000		0.000	312.070	0.000	315.000	30.51 *	312.300	0.000		0.000
26		0.000		0.000	312.060	0.000	314.400	23.85 *	312.290	0.000		0.000
27		0.000		0.000	312.060	0.000	313.700	17.10 *	312.270	0.000		0.000
28		0.000		0.000	312.060	0.000	313.275	13.52 #	312.260	0.000		0.000
29		0.000		0.000	312.060	0.000	313.230	13.17 #	312.250	0.000		0.000
30		0.000		0.000	312.060	0.000	313.210	13.01 #	312.230	0.000		0.000
31				0.000	312.060	0.000			312.200	0.000		
Ten-Daily Mean												
I Ten-Daily		0.000		0.000	312.378	0.359	312.051	0.000	313.028	0.000		0.000
II Ten-Daily		0.000		0.000	312.107	0.000	312.148	0.000	312.543	0.000		0.000
III Ten-Daily		0.000		0.000	312.068	0.000	313.391	13.10	312.282	0.000		0.000
Monthly												
Min.		0.000		0.000	312.060	0.000	312.040	0.000	312.200	0.000		0.000
Max.		0.000		0.000	312.810	1.026	315.000	30.51	313.200	0.000		0.000
Mean		0		0	312.174	0.116	312.530	4.367	312.607	0		0

Annual Runoff in MCM = 12 Annual Runoff in mm = 9

Peak Observed Discharge = 13.52 cumecs on 28-09-2016 Corres. Water Level :313.275 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1		0.000		0.000		0.000		0.000		0.000		0.000
2		0.000		0.000		0.000		0.000		0.000		0.000
3		0.000		0.000		0.000		0.000		0.000		0.000
4		0.000		0.000		0.000		0.000		0.000		0.000
5		0.000		0.000		0.000		0.000		0.000		0.000
6		0.000		0.000		0.000		0.000		0.000		0.000
7		0.000		0.000		0.000		0.000		0.000		0.000
8		0.000		0.000		0.000		0.000		0.000		0.000
9		0.000		0.000		0.000		0.000		0.000		0.000
10		0.000		0.000		0.000		0.000		0.000		0.000
11		0.000		0.000		0.000		0.000		0.000		0.000
12		0.000		0.000		0.000		0.000		0.000		0.000
13		0.000		0.000		0.000		0.000		0.000		0.000
14		0.000		0.000		0.000		0.000		0.000		0.000
15		0.000		0.000		0.000		0.000		0.000		0.000
16		0.000		0.000		0.000		0.000		0.000		0.000
17		0.000		0.000		0.000		0.000		0.000		0.000
18		0.000		0.000		0.000		0.000		0.000		0.000
19		0.000		0.000		0.000		0.000		0.000		0.000
20		0.000		0.000		0.000		0.000		0.000		0.000
21		0.000		0.000		0.000		0.000		0.000		0.000
22		0.000		0.000		0.000		0.000		0.000		0.000
23		0.000		0.000		0.000		0.000		0.000		0.000
24		0.000		0.000		0.000		0.000		0.000		0.000
25		0.000		0.000		0.000		0.000		0.000		0.000
26		0.000		0.000		0.000		0.000		0.000		0.000
27		0.000		0.000		0.000		0.000		0.000		0.000
28		0.000		0.000		0.000		0.000		0.000		0.000
29		0.000		0.000				0.000		0.000		0.000
30		0.000		0.000				0.000		0.000		0.000
31		0.000		0.000				0.000				0.000
Ten-Daily Mean												
I Ten-Daily		0.000		0.000		0.000		0.000		0.000		0.000
II Ten-Daily		0.000		0.000		0.000		0.000		0.000		0.000
III Ten-Daily		0.000		0.000		0.000		0.000		0.000		0.000
Monthly												
Min.		0.000		0.000		0.000		0.000		0.000		0.000
Max.		0.000		0.000		0.000		0.000		0.000		0.000
Mean		0		0		0		0		0		0

Peak Computed Discharge = 30.51 cumecs on 25-09-2016 Corres. Water Level :315 m

Lowest Computed Discharge = 17.10 cumecs on 27-09-2016 Corres. Water Level :313.7 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

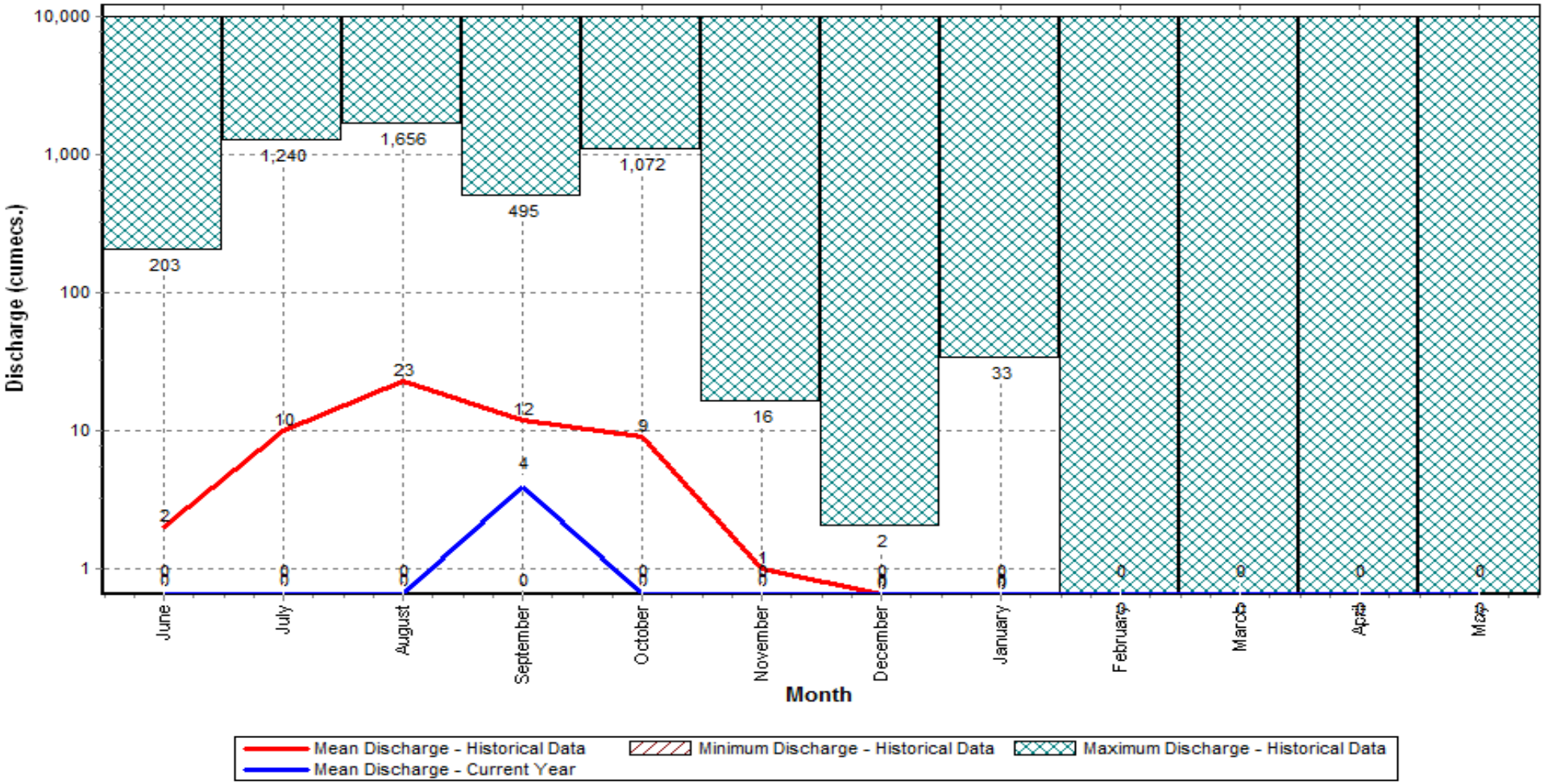
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Gandlapet (AGM00G6) | **Data considered : 1987-2017** | **Division : U Godavari Div., Hyderabad**

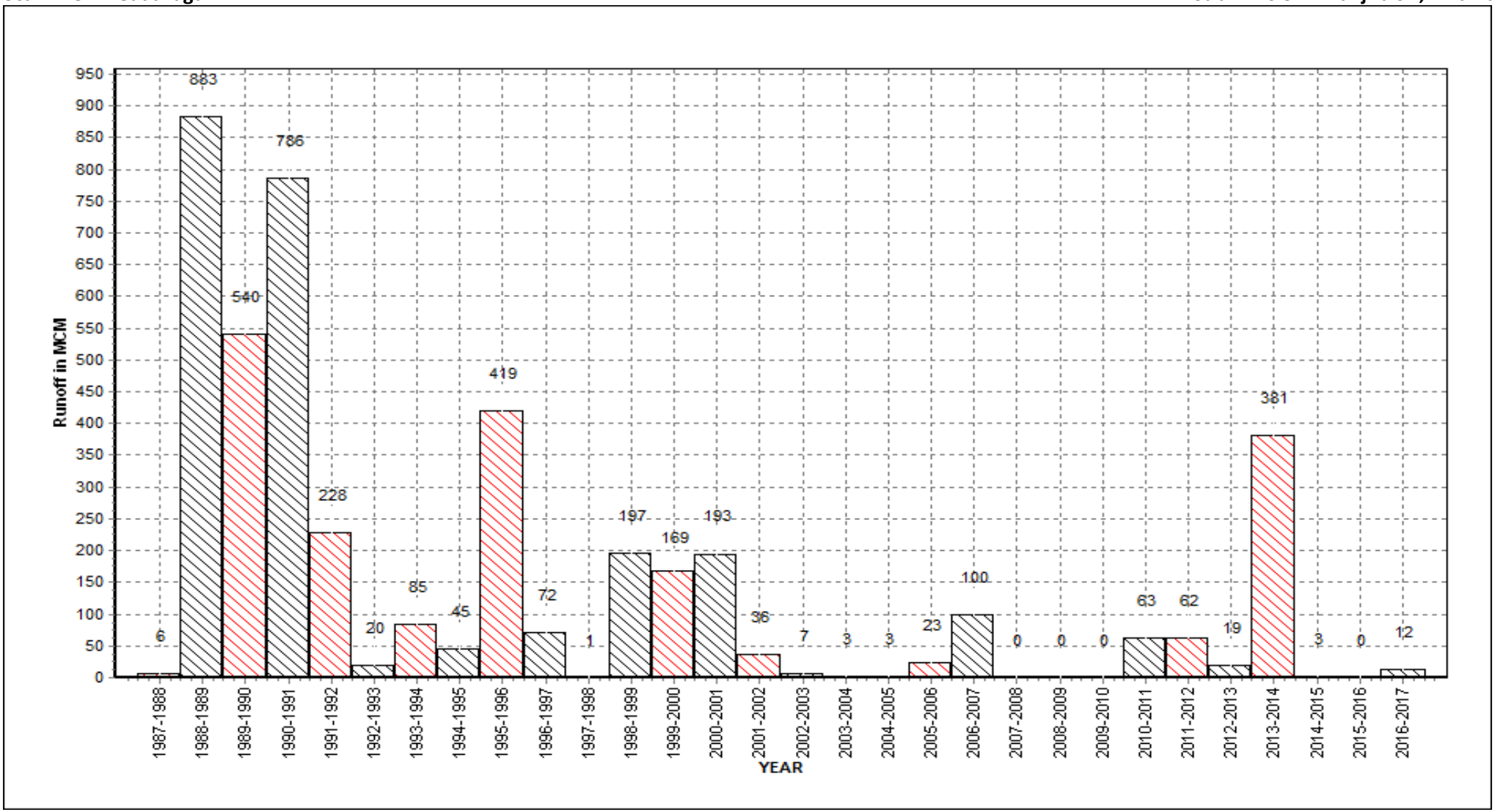
Local River : Peddavagu | **Sub-Division : Manjira SD, Nizamabad**



Annual Runoff Values for the period: 1987 - 2017

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**

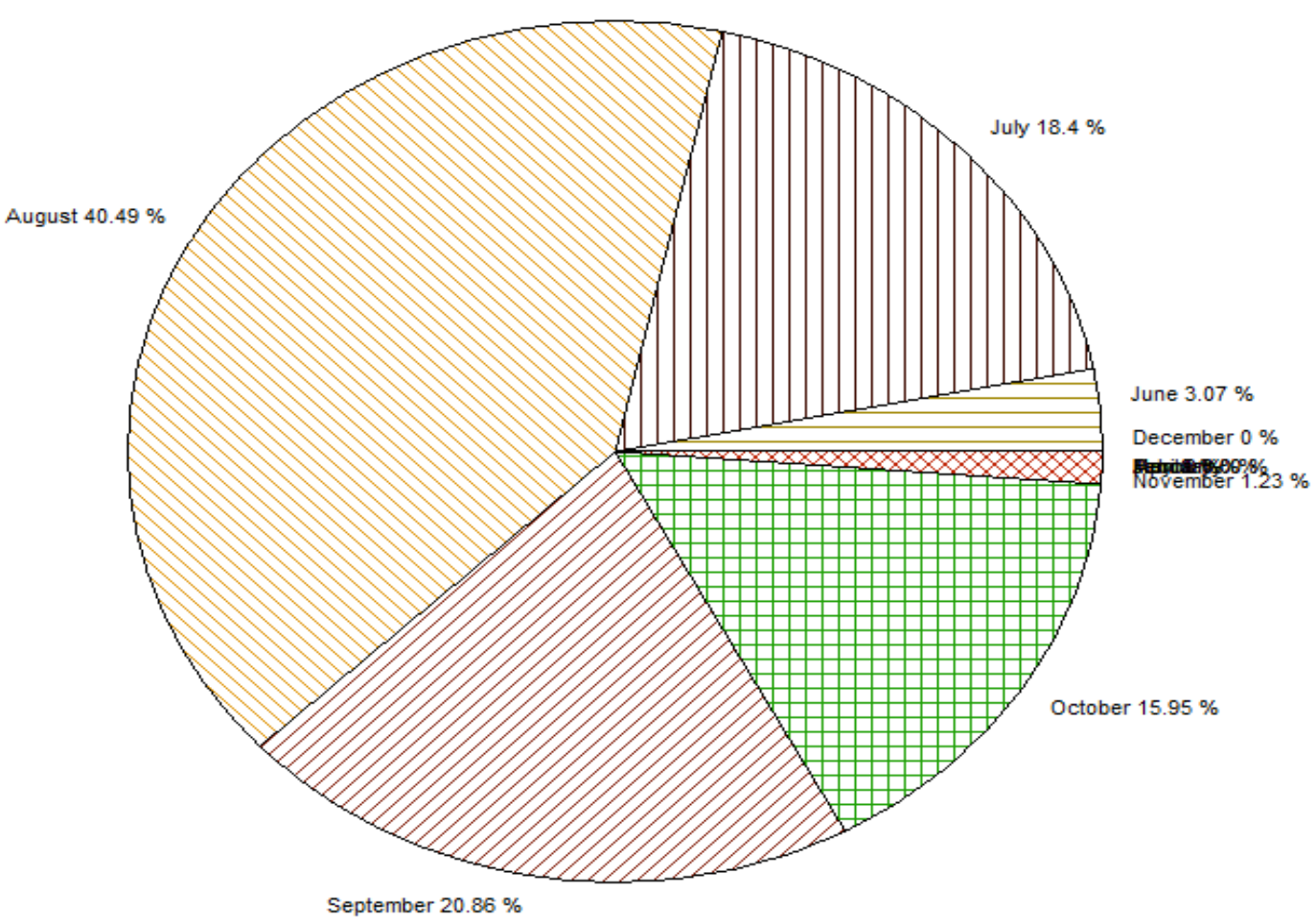


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1987-2016

Station Name : Gandlapet (AGM00G6)
Local River : Peddavagu

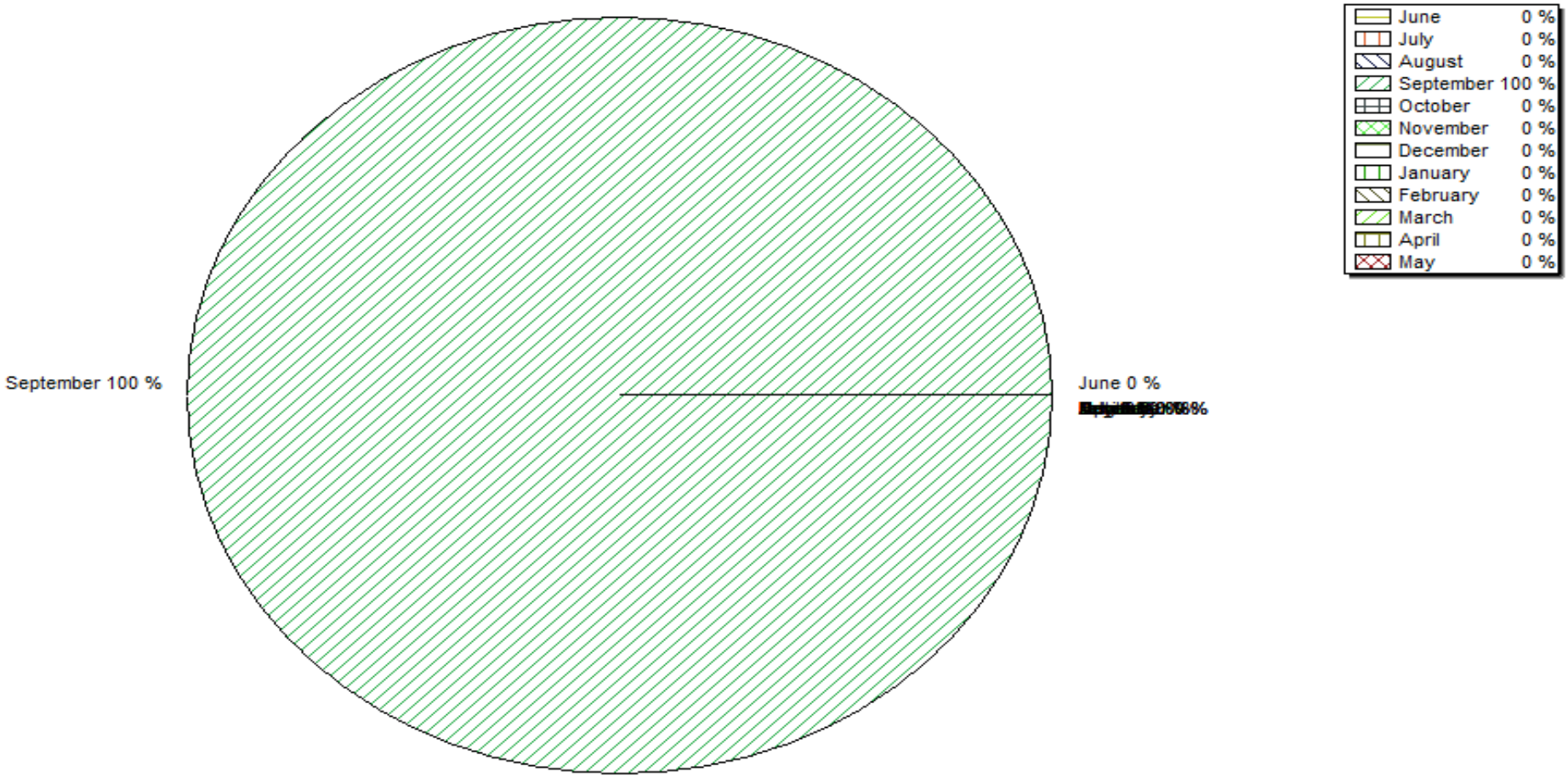
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Monthly Runoff for the Year : 2016-2017

Station Name : Gandlapet (AGM00G6)
Local River : Peddavagu

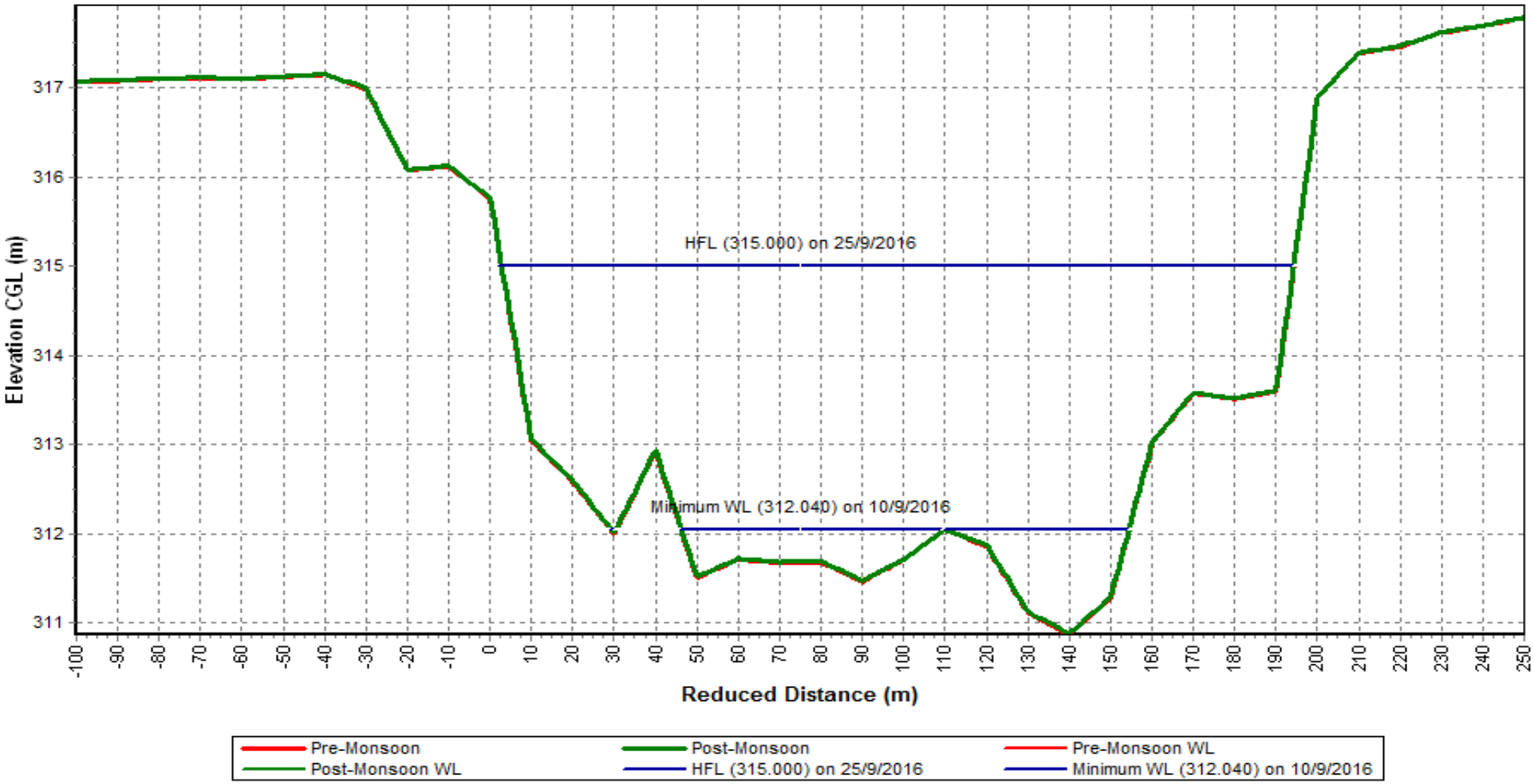
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

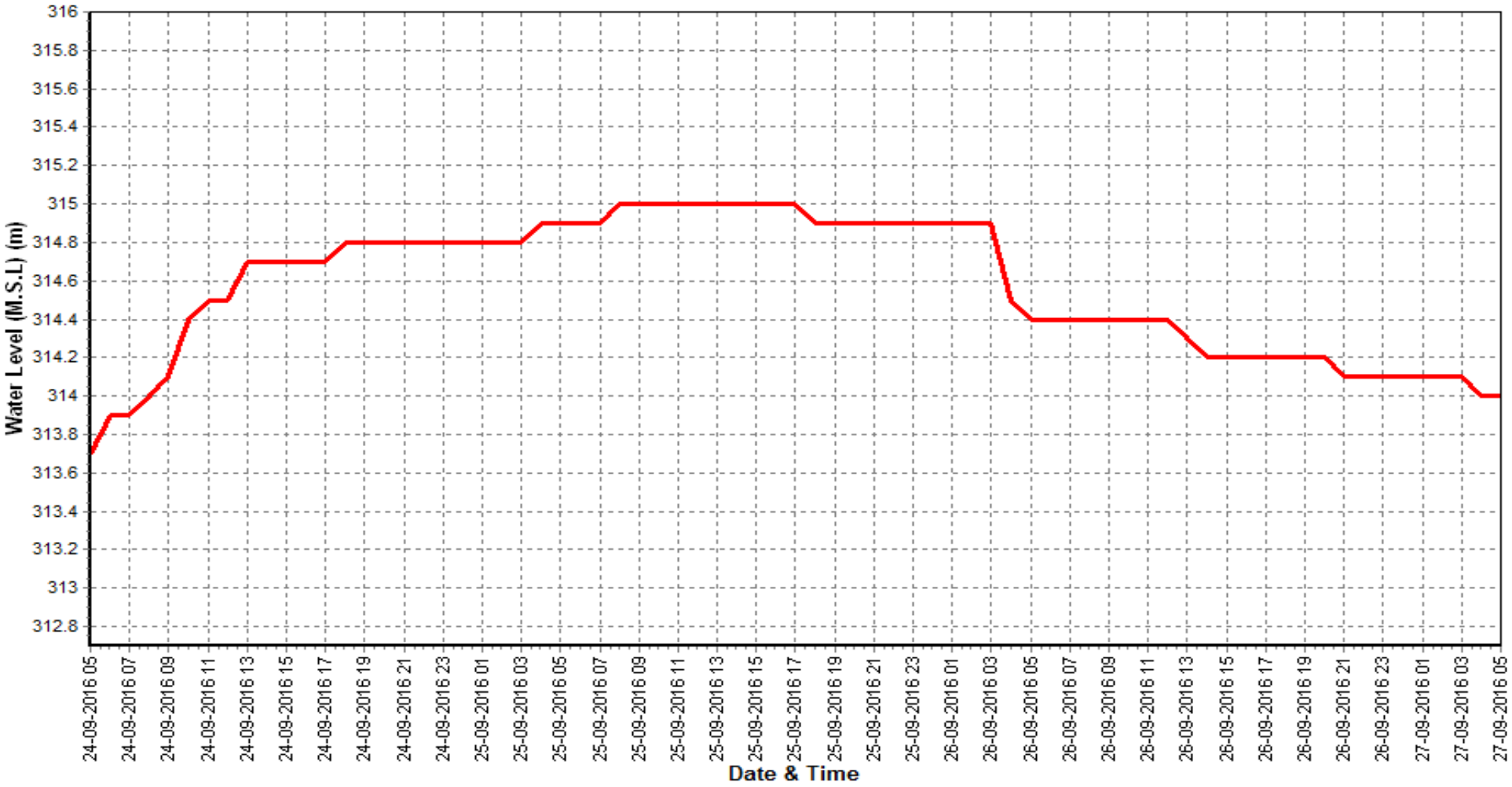
Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**

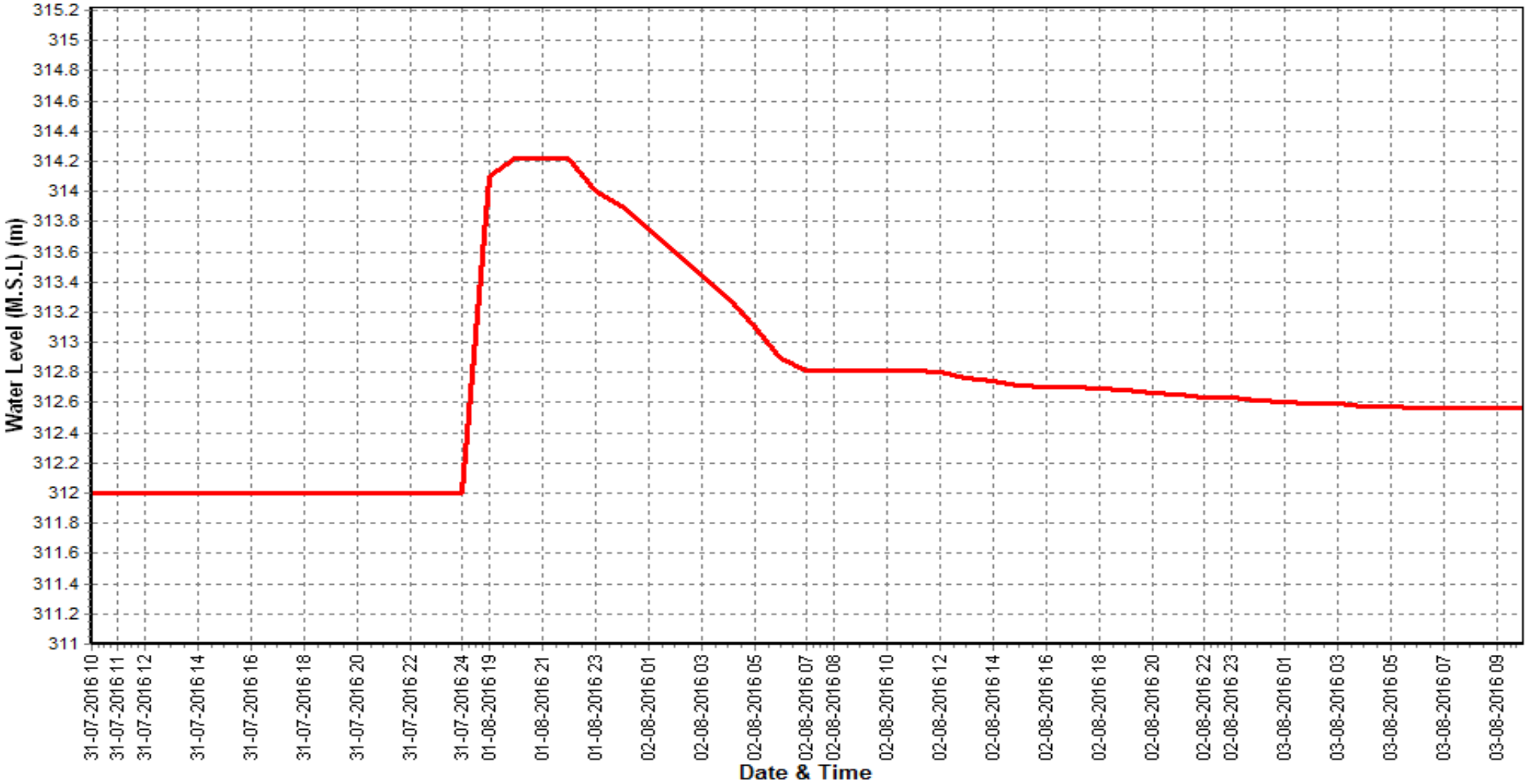


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**

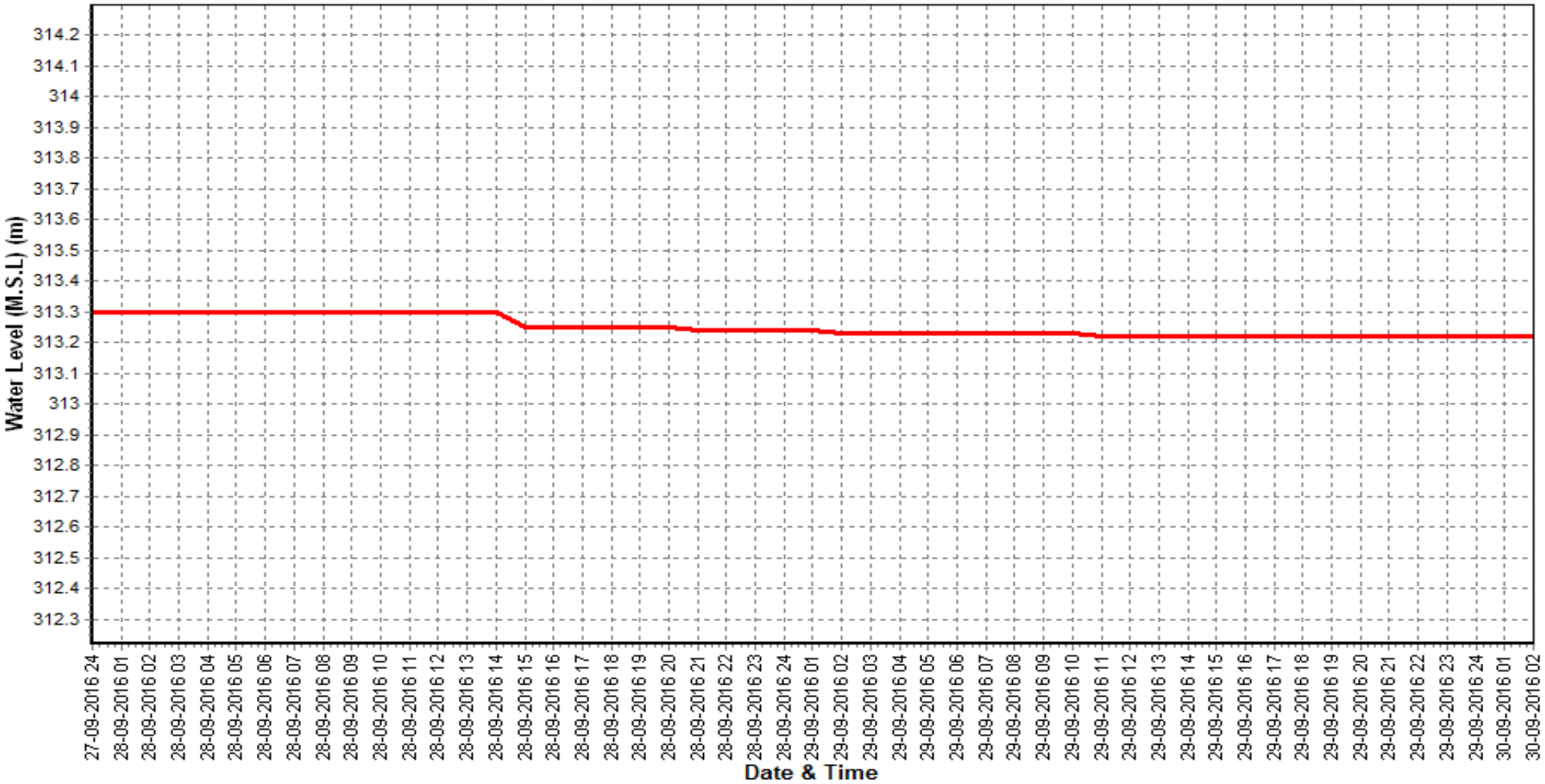


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Gandlapet (AGM00G6) **Division : U Godavari Div., Hyderabad**

Local River : Peddavagu **Sub-Division : Manjira SD, Nizamabad**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Betmogrra**		**Code**	**: AGP10F7**	
State	: Maharashtra		District	Nanded	
Basin	: Ganga-Brahm-Meghna Basin		Independent River	: Godavari	
Tributary	: Manjera		Sub Tributary	:	
Sub-Sub Tributary	:		Local River	: Maner/Godavari	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Manjira SD, Nizamabad	
Drainage Area	: 2105 Sq. Km.		Bank	:	
Latitude	: 18°42'12"		Longitude	: 77°32'30"	
Zero of Gauge (m)	: 347.5 (m.s.l)		01.06.2010		
	347.5 (m.s.l)		01.06.1997	- 31.05.2010	
	347.5 (m.s.l)		01.01.2000	- 31.12.2004	
	347.5 (m.s.l)		01.01.2005	- 31.12.2005	
	349 (m.s.l)		01.04.1986	- 31.05.1997	
	Opening Date		Closing Date		
Gauge	: 01.06.1997		**HFL During 2016-17**	**: 367.5**	
			Corres.Discharge	**: 1175.199 Cumecs(Estimated)**	
Discharge	: 03.07.1997		**Date& Time of**	**: 02.10.2016**	
			Occurance	**: 08:00**	
Sediment	:				
Water Quality	: 15.07.1997				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1997-1998	119.8	351.450	29.10.1997	0.000		30.04.1998
1998-1999	611.6	354.140	26.08.1998	0.000	348.640	19.02.1999
1999-2000	166.2	351.855	13.10.1999	0.000	348.590	10.03.2000
2000-2001	1074	355.675	25.08.2000	0.000		28.03.2001
2001-2002	1129	355.715	02.10.2001	0.000	348.640	11.01.2002
2002-2003	310.8	352.450	06.09.2002	0.000		22.01.2003
2003-2004	612.3	354.110	27.09.2003	0.000		22.03.2004
2004-2005	56.22	350.115	11.09.2004	0.000		10.01.2005
2005-2006	1212	356.200	16.10.2005	0.000	348.300	10.02.2006
2006-2007	547.1	354.290	05.08.2006	0.000	348.430	26.02.2007
2007-2008	133.2	350.845	06.09.2007	0.000	348.420	20.12.2007
2008-2009	65.81	350.280	12.09.2008	0.000		25.01.2009
2009-2010	0.000		04.10.2009	0.000		25.01.2010
2010-2011	909.1	355.510	26.08.2010	0.000	348.560	25.04.2011
2011-2012	606.6	354.335	27.08.2011	0.000	348.490	21.03.2012
2012-2013	11.05	349.380	03.10.2012	0.000		30.11.2012
2013-2014	236.5	351.900	18.08.2013	0.000	348.530	27.01.2014
2014-2015	149.6	350.920	27.08.2014	0.000	347.500	25.01.2015
2015-2016	0.000	347.500	09.06.2015	0.000	347.500	12.12.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000		0.000	350.065	27.29 *	348.810	2.527	350.450	37.91 *	348.140	0.000
2		0.000		0.000	348.560	0.322	348.470	0.000	362.235	1175 *	348.100	0.000
3		0.000		0.000	348.995	5.453	348.310	0.000	350.440	37.62 *	348.050	0.000
4		0.000		0.000	348.610	0.685	348.280	0.000	350.800	48.55 *	347.990	0.000
5		0.000		0.000	348.440	0.000	348.150	0.000	350.550	40.86 *	347.950	0.000
6		0.000		0.000	348.320	0.000	347.910	0.000	350.210	31.15 *	347.930	0.000
7		0.000		0.000	348.300	0.000	347.750	0.000	349.405	12.22	347.930	0.000
8		0.000		0.000	348.250	0.000	347.750	0.000	349.015	5.194	347.930	0.000
9		0.000		0.000	347.950	0.000		0.000	351.830	84.65 *	347.930	0.000
10		0.000		0.000	347.950	0.000		0.000	350.330	34.47 *	347.930	0.000
11		0.000		0.000	347.940	0.000		0.000	349.650	17.25 *	347.930	0.000
12		0.000	348.630	0.000	347.940	0.000		0.000	349.580	15.72 *		0.000
13		0.000	348.390	0.000	347.930	0.000		0.000	349.550	15.08 *		0.000
14		0.000	347.850	0.000	347.930	0.000	348.480	0.000	349.045	5.762 #		0.000
15		0.000	347.820	0.000	347.930	0.000	349.035	5.609 #	348.925	4.087		0.000
16		0.000		0.000	347.900	0.000	349.630	16.81 *	348.850	3.054 *		0.000
17		0.000		0.000	347.850	0.000	348.745	2.168	348.805	2.488		0.000
18		0.000		0.000	347.750	0.000	348.875	3.643	348.755	1.696		0.000
19		0.000		0.000	347.700	0.000	348.660	0.929	348.695	1.220		0.000
20		0.000		0.000		0.000	348.450	0.000	348.655	0.882		0.000
21		0.000		0.000		0.000	348.470	0.000	348.555	0.342		0.000
22		0.000		0.000		0.000	349.520	14.44 *	348.500	0.000		0.000
23		0.000	347.970	0.000		0.000	350.150	29.53 *	348.080	0.000		0.000
24		0.000	347.950	0.000		0.000	352.960	131.4 *	348.480	0.000		0.000
25		0.000	347.930	0.000		0.000	349.660	17.47 *	348.460	0.000		0.000
26		0.000	347.800	0.000		0.000	349.055	5.916 #	348.380	0.000		0.000
27		0.000	348.020	0.000		0.000	348.980	4.936	348.360	0.000		0.000
28		0.000	348.660	1.006		0.000	351.320	65.92 *	348.320	0.000		0.000
29		0.000	349.790	20.46 *		0.000	349.770	19.99 *	348.300	0.000		0.000
30		0.000	348.200	0.000		0.000	352.320	104.1 *	348.240	0.000		0.000
31			348.100	0.000		0.000			348.190	0.000		
Ten-Daily Mean												
I Ten-Daily		0.000		0.000	348.544	3.375	348.179	0.253	351.527	150.8	347.988	0.000
II Ten-Daily		0.000	348.172	0.000	347.874	0.000	348.839	2.916	349.051	6.723	347.930	0.000
III Ten-Daily		0.000	348.269	1.952		0.000	350.221	39.37	348.351	0.031		0.000
Monthly												
Min.		0.000	347.800	0.000	347.700	0.000	347.750	0.000	348.080	0.000	347.930	0.000
Max.		0.000	349.790	20.46	350.065	27.29	352.960	131.4	362.235	1175	348.140	0.000
Mean		0	348.239	0.693	348.227	1.089	349.180	14.18	349.601	50.82	347.983	0

Annual Runoff in MCM = 178 Annual Runoff in mm = 84

Peak Observed Discharge = 12.22 cumecs on 07-10-2016 Corres. Water Level :349.405 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1		0.000	347.950	0.000	347.970	0.000	347.970	0.000		0.000		0.000
2		0.000	347.950	0.000	347.970	0.000	347.920	0.000		0.000		0.000
3		0.000	347.940	0.000	347.970	0.000	347.920	0.000		0.000		0.000
4		0.000	347.940	0.000	347.970	0.000	347.920	0.000		0.000		0.000
5		0.000	347.930	0.000	347.970	0.000	347.920	0.000		0.000		0.000
6		0.000	347.920	0.000	347.970	0.000	347.920	0.000		0.000		0.000
7		0.000	347.920	0.000	347.970	0.000	347.920	0.000		0.000		0.000
8		0.000	347.920	0.000	347.970	0.000	347.920	0.000		0.000		0.000
9		0.000	347.920	0.000	347.970	0.000	347.920	0.000		0.000		0.000
10		0.000	347.920	0.000	347.970	0.000	347.920	0.000		0.000		0.000
11		0.000	347.920	0.000	347.970	0.000	347.920	0.000		0.000		0.000
12		0.000	347.920	0.000	347.970	0.000	347.930	0.000		0.000		0.000
13		0.000	347.930	0.000	347.970	0.000	347.950	0.000		0.000		0.000
14		0.000	347.980	0.000	347.970	0.000	347.950	0.000		0.000		0.000
15		0.000	347.980	0.000	347.970	0.000	347.960	0.000		0.000		0.000
16		0.000	347.980	0.000	347.970	0.000	347.970	0.000		0.000		0.000
17		0.000	347.980	0.000	347.970	0.000	347.980	0.000		0.000		0.000
18		0.000	347.980	0.000	347.970	0.000	347.990	0.000		0.000		0.000
19		0.000	347.980	0.000	347.970	0.000	348.000	0.000		0.000		0.000
20		0.000	347.980	0.000	347.970	0.000	348.000	0.000		0.000		0.000
21		0.000	347.980	0.000	347.970	0.000	348.000	0.000		0.000		0.000
22		0.000	347.980	0.000	347.950	0.000	348.000	0.000		0.000		0.000
23		0.000	347.980	0.000	347.900	0.000	347.900	0.000		0.000		0.000
24		0.000	347.980	0.000	347.900	0.000	347.700	0.000		0.000		0.000
25		0.000	347.980	0.000	347.900	0.000	347.700	0.000		0.000		0.000
26		0.000	347.980	0.000	347.900	0.000	347.700	0.000		0.000		0.000
27	347.600	0.000	347.980	0.000	347.900	0.000	347.700	0.000		0.000		0.000
28	347.950	0.000	347.980	0.000	347.920	0.000		0.000		0.000		0.000
29	347.950	0.000	347.970	0.000				0.000		0.000		0.000
30	347.950	0.000	347.970	0.000				0.000		0.000		0.000
31	347.950	0.000	347.970	0.000				0.000				0.000
Ten-Daily M												
I Ten-Daily		0.000	347.931	0.000	347.970	0.000	347.925	0.000		0.000		0.000
II Ten-Daily		0.000	347.963	0.000	347.970	0.000	347.965	0.000		0.000		0.000
III Ten-Daily	347.880	0.000	347.977	0.000	347.917	0.000	347.814	0.000		0.000		0.000
Monthly												
Min.	347.600	0.000	347.920	0.000	347.900	0.000	347.700	0.000		0.000		0.000
Max.	347.950	0.000	347.980	0.000	347.970	0.000	348.000	0.000		0.000		0.000
Mean	347.880	0	347.958	0	347.955	0	347.911	0		0		0

Peak Computed Discharge = 1175 cumecs on 02-10-2016 Corres. Water Level :362.235 m

Lowest Computed Discharge = 3.054 cumecs on 16-10-2016 Corres. Water Level :348.85 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

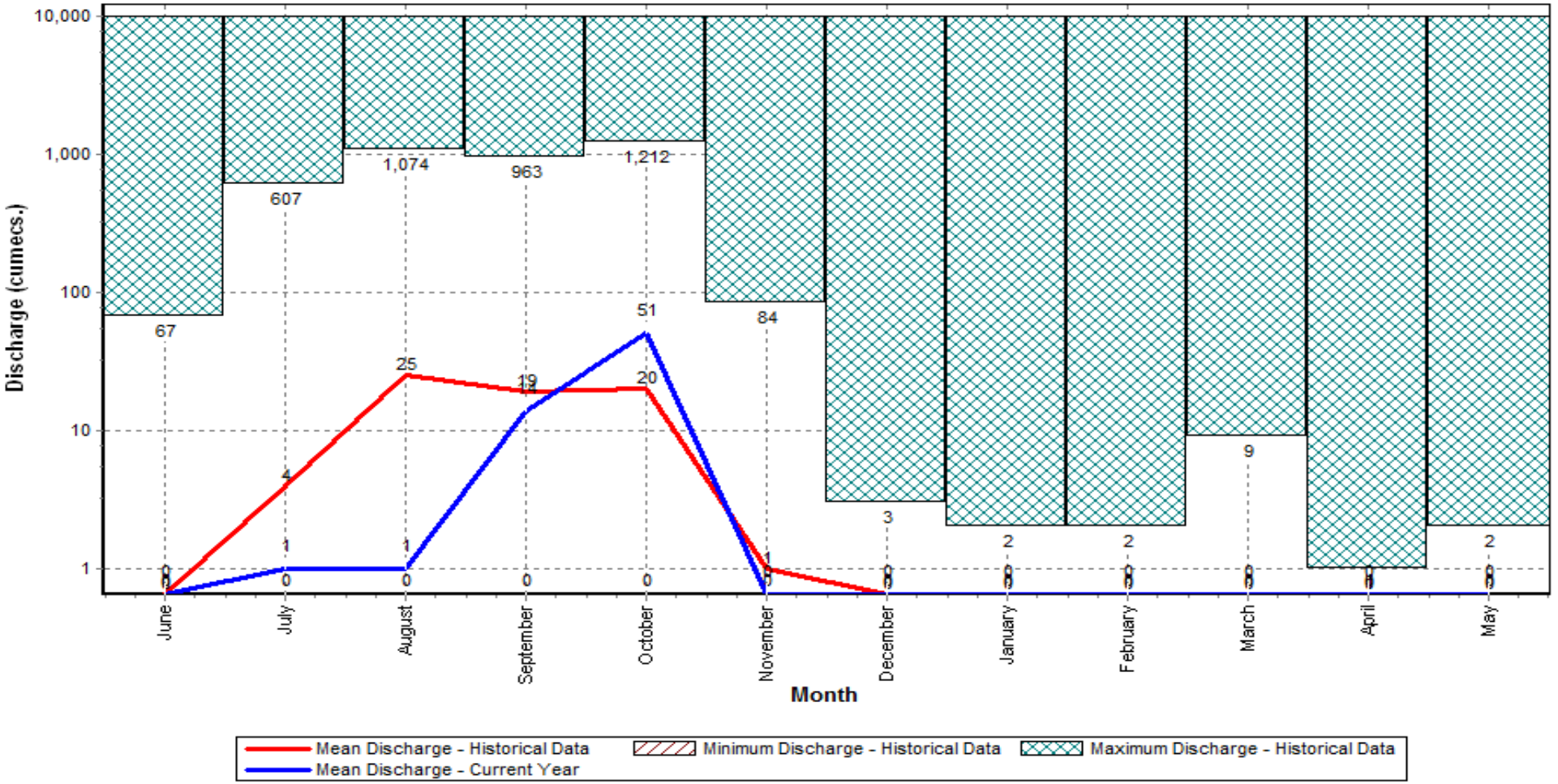
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Betmogrra (AGP10F7) | **Data considered : 1997-2017** | **Division : U Godavari Div., Hyderabad**

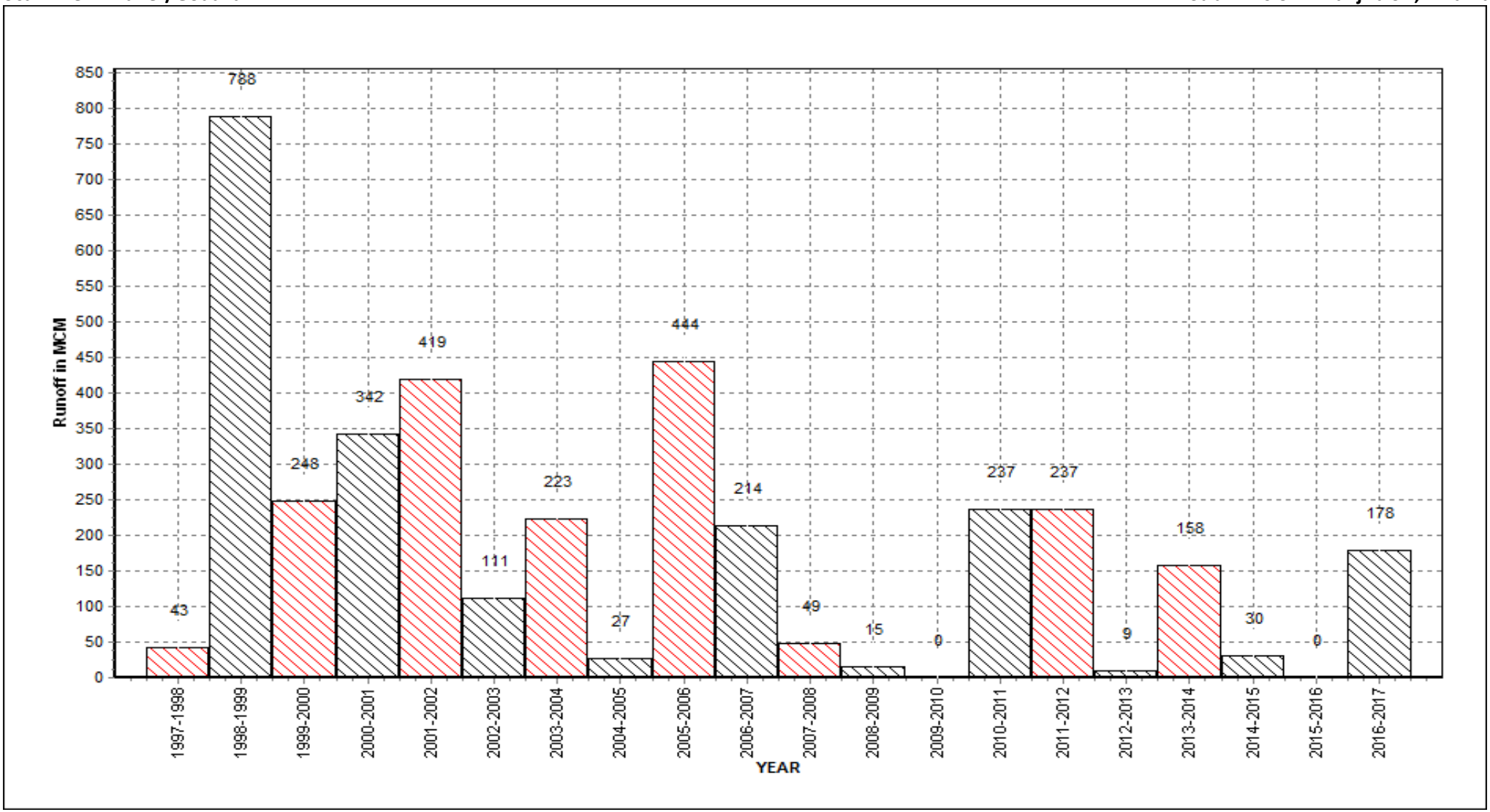
Local River : Maner/Godavari | **Sub-Division : Manjira SD, Nizamabad**


10,000
1,000
100
10
1
Discharge (cumecs.)
67
607
1,074
963
1,212
84
3
2
2
9
2
51
25
19
20
4
1
1
1
0
0
0

Annual Runoff Values for the period: 1997 - 2017

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

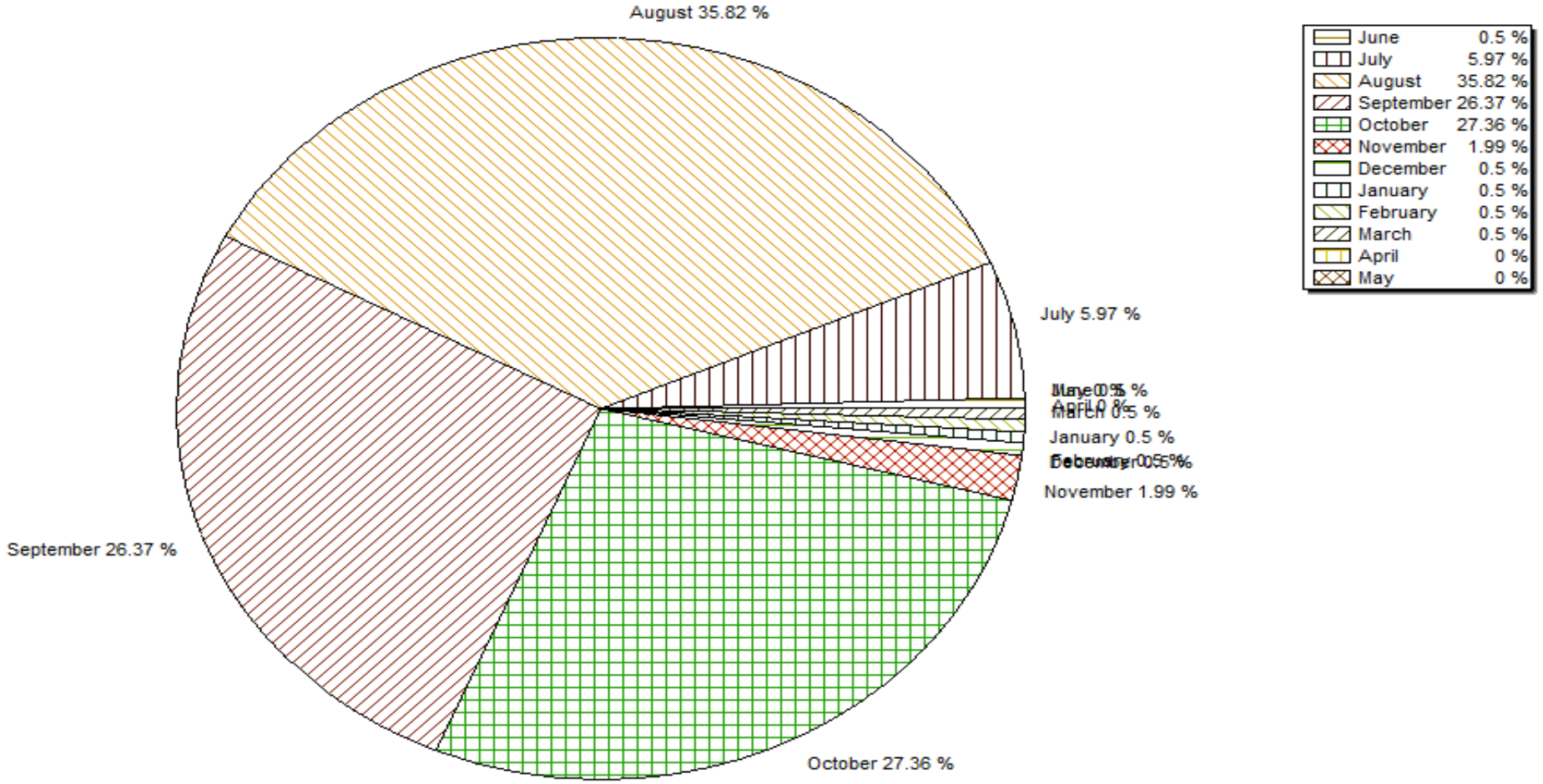


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1997-2016

Station Name : Betmogrra (AGP10F7)
Local River : Maner/Godavari

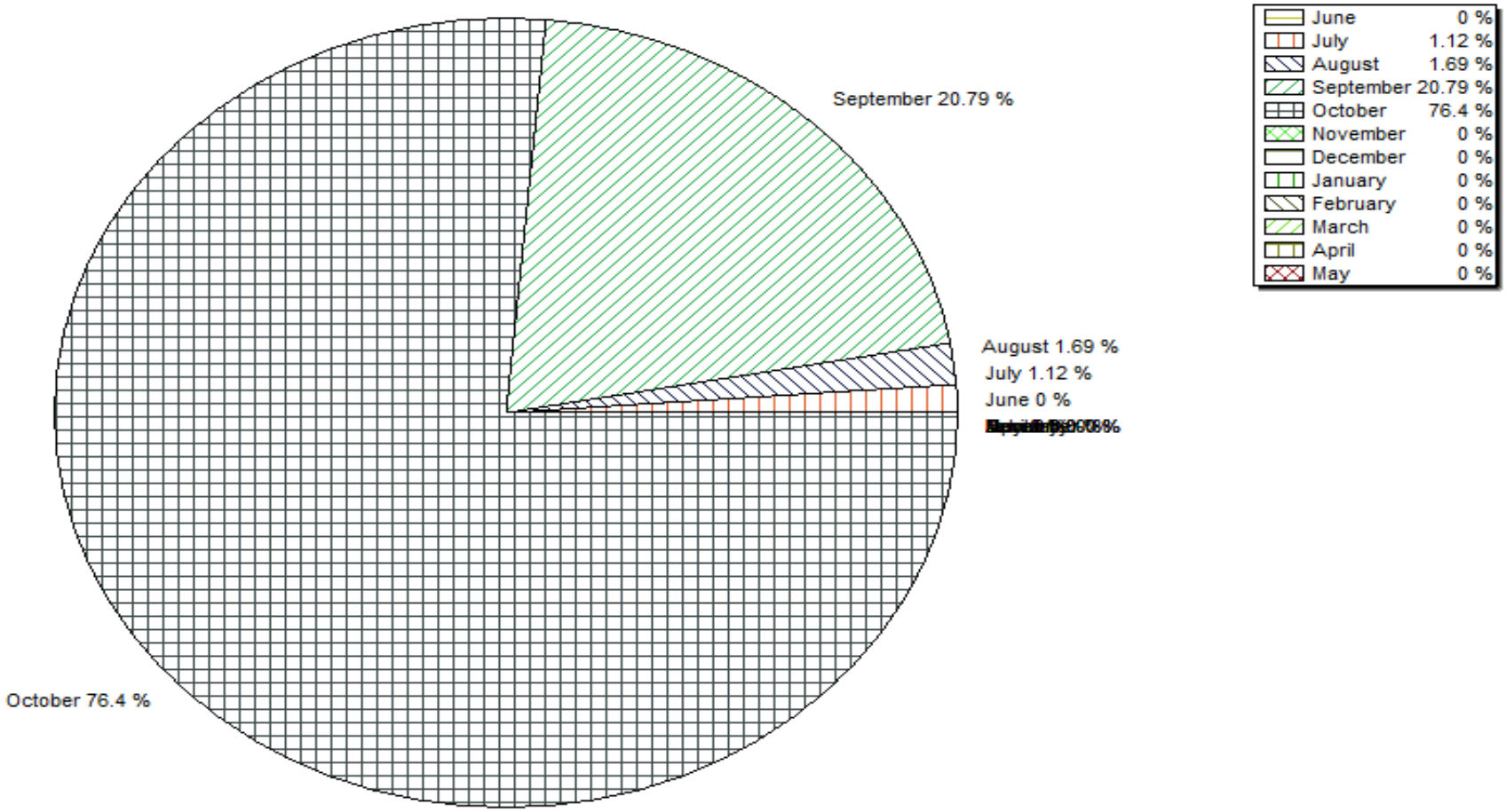
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Monthly Runoff for the Year : 2016-2017

Station Name : Betmogrra (AGP10F7)
Local River : Maner/Godavari

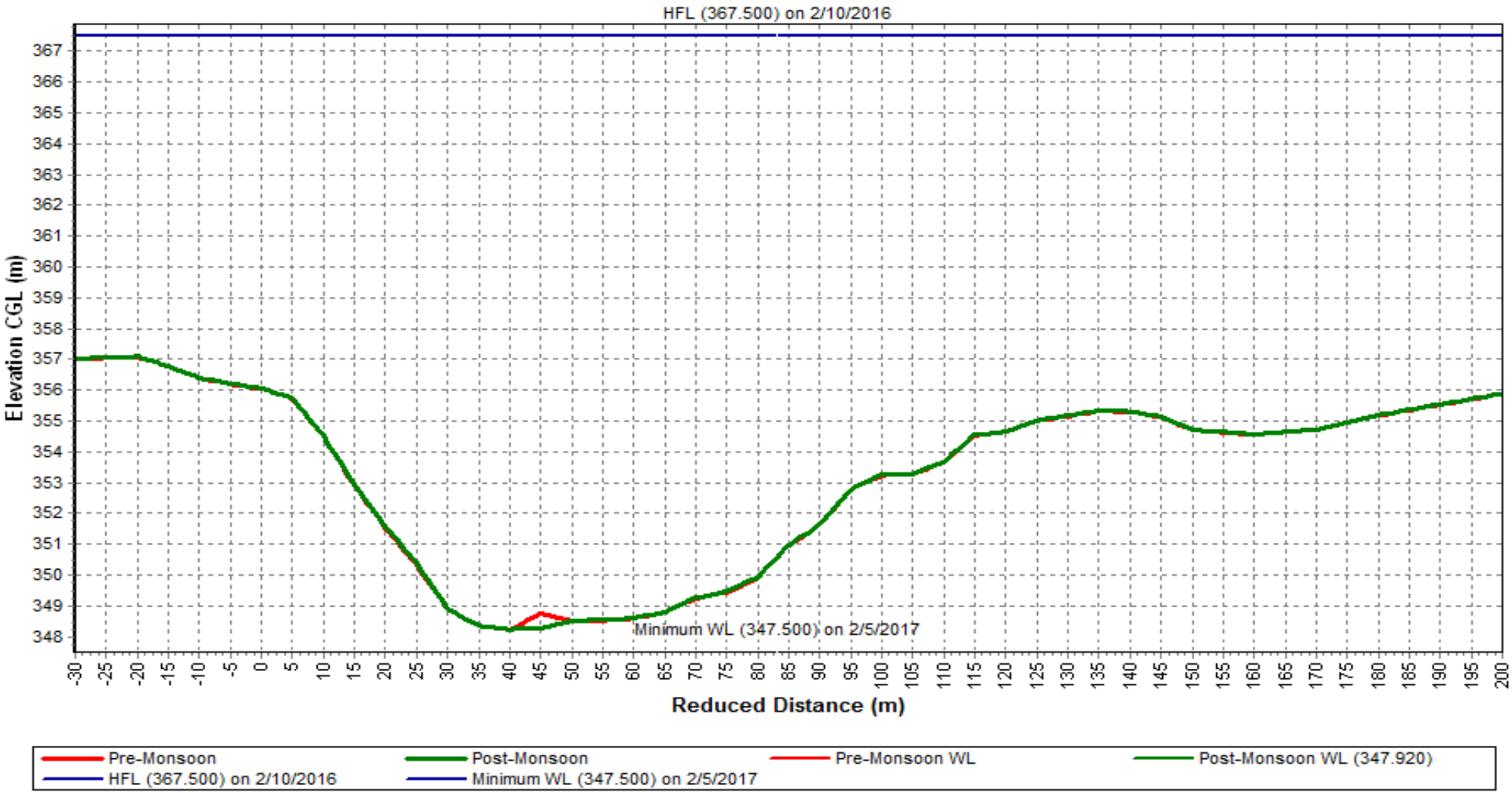
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

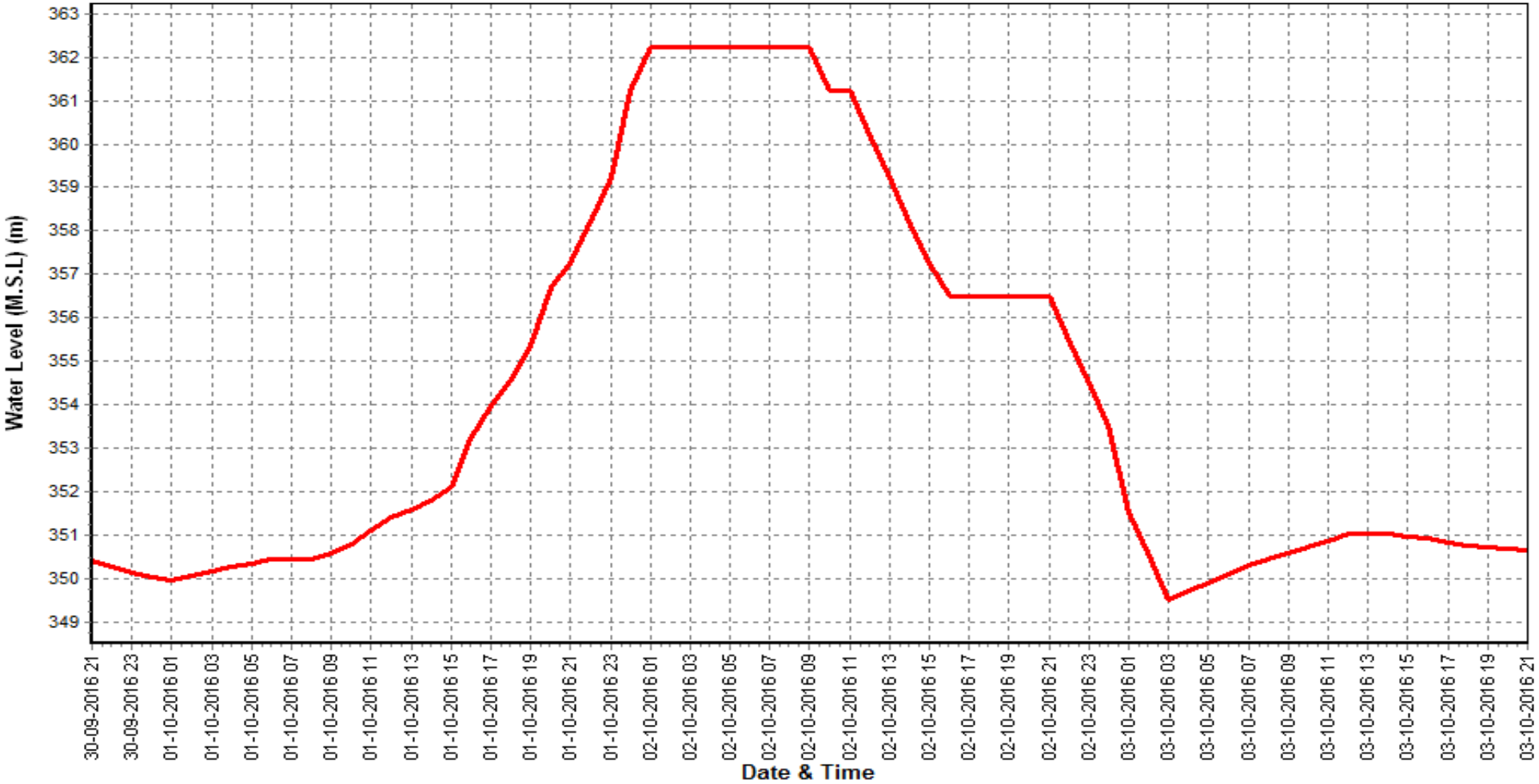
Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

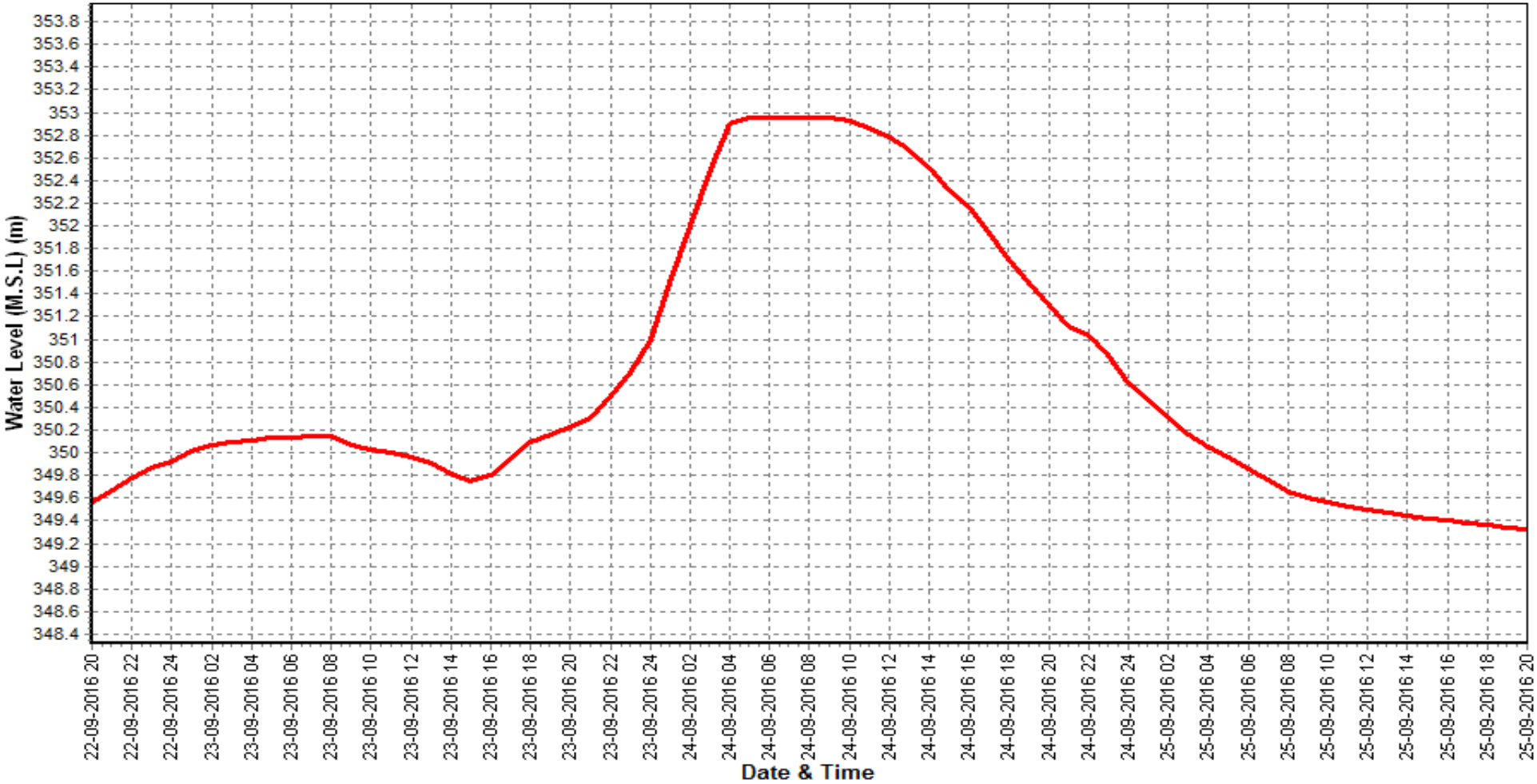


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**

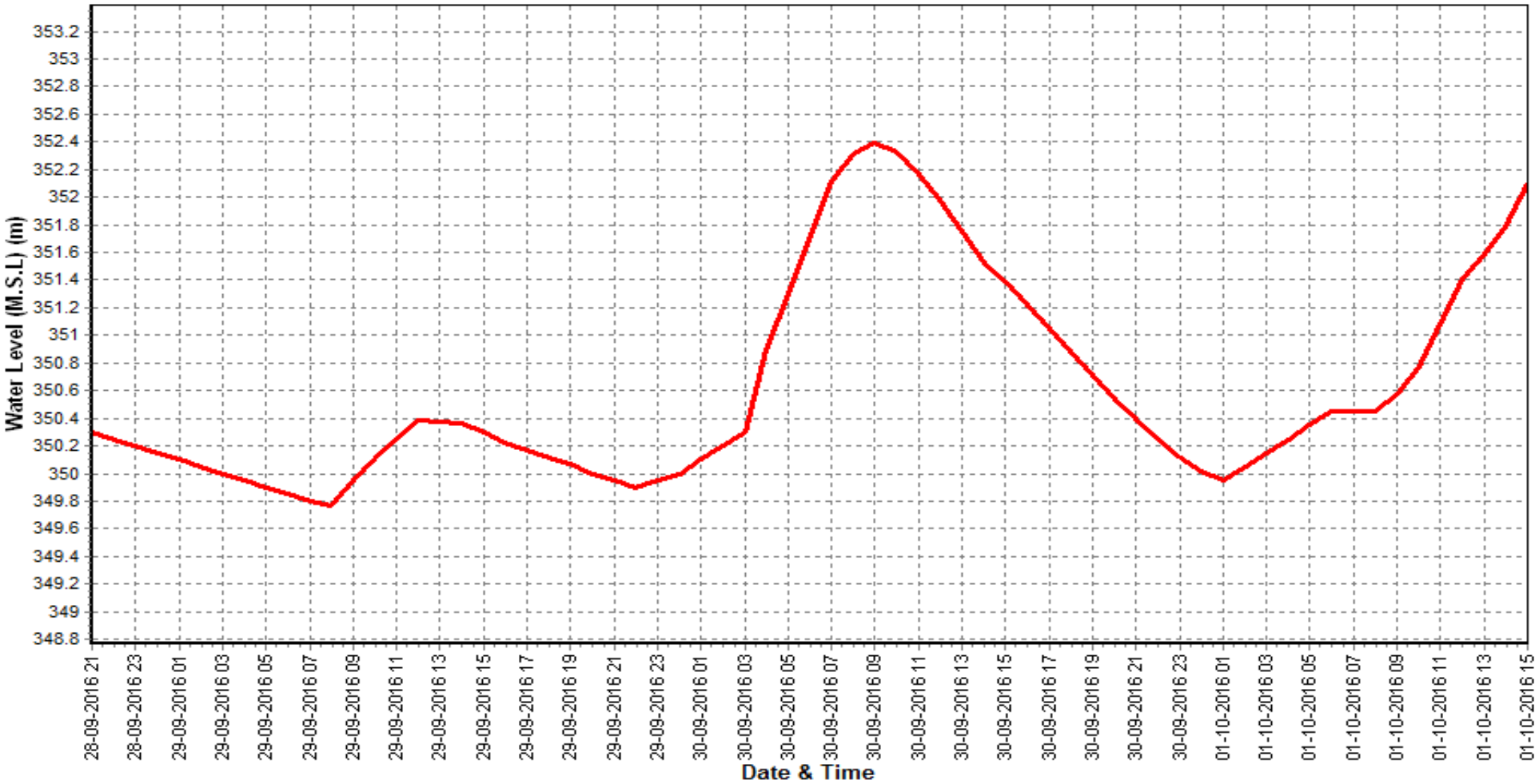


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Betmogrra (AGP10F7) **Division : U Godavari Div., Hyderabad**

Local River : Maner/Godavari **Sub-Division : Manjira SD, Nizamabad**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Degloor**		**Code**	**: AGP20F4**	
State	: Maharashtra		District	Nanded	
Basin	: Ganga-Brahm-Meghna Basin		Independent River	: Godavari	
Tributary	: Manjira		Sub Tributary	:	
Sub-Sub Tributary	:		Local River	: Lendi	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Manjira SD, Nizamabad	
Drainage Area	: 1900 Sq. Km.		Bank	:	
Latitude	: 18°32'12"		Longitude	: 77°34'56"	
Zero of Gauge (m)	: 352 (m.s.l)		01.06.2010		
	352 (m.s.l)		16.08.1984	- 31.05.2010	
	352 (m.s.l)		01.01.2000	- 31.12.2004	
	Opening Date		Closing Date		
Gauge	: 16.08.1984		**HFL During 2016-17**	**: 364.85**	
			Corres.Discharge	**: 2320.038 Cumecs(Estimated)**	
Discharge	: 17.07.1987		**Date& Time of**	**: 01.10.2016**	
			Occurance	**: 23:00**	
Sediment	: 01.01.1994				
Water Quality	: 15.09.1988				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1988-1989	1867	361.250	02.09.1988	0.000		12.05.1989
1989-1990	1103	360.205	24.07.1989	0.000		02.03.1990
1990-1991	1678	361.045	16.08.1990	0.000		16.02.1991
1991-1992	215.9	355.985	11.07.1991	0.000		26.01.1992
1992-1993	329.4	356.865	02.09.1992	0.000		25.01.1993
1993-1994	126.6	355.150	19.10.1993	0.000		09.02.1994
1994-1995	47.58	354.380	31.08.1994	0.000		15.01.1995
1995-1996	1990	362.320	19.10.1995	0.000		23.02.1996
1996-1997	651.5	358.645	08.09.1996	0.000	352.800	27.03.1997
1997-1998	318.1	356.500	29.10.1997	0.000	352.760	22.01.1998
1998-1999	731.8	359.400	10.08.1998	0.000	352.650	11.02.1999
1999-2000	265.6	356.275	02.08.1999	0.000		26.01.2000
2000-2001	2732	363.850	24.08.2000	0.000		25.01.2001
2001-2002	358.1	356.860	05.08.2001	0.000		08.02.2002
2002-2003	135.5	355.120	25.08.2002	0.000		25.01.2003
2003-2004	1812	361.585	21.08.2003	0.000		26.01.2004
2004-2005	1000	358.815	30.07.2004	0.000	352.150	25.01.2005
2005-2006	1426	360.235	21.09.2005	0.000		01.07.2005
2006-2007	1743	361.280	05.08.2006	0.000	352.620	24.12.2006
2007-2008	90.61	354.750	23.09.2007	0.000	352.510	26.01.2008

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2008-2009	94.79	354.720	10.08.2008	0.000	352.380	25.01.2009
2009-2010	121.5	355.270	04.10.2009	0.000		25.01.2010
2010-2011	1110	359.800	26.08.2010	0.000	353.580	25.01.2011
2011-2012	441.3	357.900	01.08.2011	0.000	352.720	23.01.2012
2012-2013	541.2	358.500	03.10.2012	0.000	352.590	27.04.2013
2013-2014	199.1	355.390	23.07.2013	0.000	352.720	14.02.2014
2014-2015	102.9	354.970	31.08.2014	0.000	352.000	25.01.2015
2015-2016	0.000	352.000	24.11.2015	0.000	352.000	10.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000	352.730	0.000	353.940	52.95 *	356.270	234.4 *	355.760	174.5 *	353.350	7.530
2		0.000	352.650	0.000	353.460	15.31	353.860	25.05 *	362.420	1535 *	353.340	7.208
3		0.000	352.600	0.000	353.510	22.93	353.490	10.79 #	358.500	586.7 *	353.300	5.570
4		0.000		0.000	353.410	14.36	353.450	9.574 *	356.310	239.5 *	353.290	5.287
5		0.000		0.000	353.455	13.68	353.420	8.705 *	355.010	101.1 *	353.200	3.891
6		0.000	352.610	0.000	353.300	7.727 #	353.380	7.605 #	355.130	111.6 *	353.170	2.962 *
7		0.000	352.830	0.000	353.230	5.082 *	352.800	0.000 #	354.830	86.22 *	353.210	3.695 *
8		0.000	352.820	0.000	353.210	5.993	353.210	3.695 #	354.730	78.41 *	354.180	41.55 *
9	352.300	0.000	352.760	0.000	353.200	4.102 #	353.160	2.790 #	355.430	140.0 *	354.390	54.39 *
10	353.230	4.969	352.730	0.000	353.180	3.502 #	353.140	2.460 #	354.970	97.72 *	354.260	46.26 *
11	353.245	5.065	352.720	0.000	353.160	2.945 #	353.120	2.149 *	354.340	51.19 *	354.300	48.70 *
12	353.090	1.346 *	353.385	12.56	353.150	2.683 #	353.110	1.823	354.710	76.89 *	354.310	49.32 *
13	352.880	0.000	353.500	13.83	353.140	2.432 #	353.100	1.858 *	354.640	71.67 *	354.300	48.70 *
14	352.690	0.000	353.330	9.630	353.140	2.432 *	353.230	4.089 #	354.620	70.21 *	354.180	41.55 *
15		0.000	353.100	0.000	353.135	2.310 *	353.420	8.705 *	354.580	67.32 *	354.080	35.99 *
16		0.000	352.810	0.000	353.120	1.964	355.660	163.7 *	354.550	65.20 *	353.520	11.74 *
17		0.000	352.610	0.000	353.120	1.863	354.890	91.07 *	354.520	63.11 *	353.430	8.990 *
18		0.000	352.630	0.000	353.110	1.803	354.680	74.63 *	354.490	61.04 *	353.200	3.505 *
19		0.000	352.660	0.000	353.110	1.838	354.680	74.63 *	353.810	22.81 *	353.110	2.001 *
20		0.000	352.630	0.000	353.090	1.346 #	354.500	61.73 *	353.540	12.98	353.050	1.213 *
21		0.000	352.620	0.000	353.080	1.163 *	354.440	57.67 *	353.530	12.45	352.980	0.000
22		0.000	354.080	67.50 *	353.070	0.000	356.250	231.9 *	353.500	10.48	352.920	0.000
23		0.000	353.950	53.94 *	353.060	0.000	358.650	615.4 *	353.490	10.79 *	352.870	0.000
24		0.000	353.440	13.75	353.050	0.000	360.820	1099 *	353.460	9.768	352.810	0.000
25	353.230	4.867	353.270	6.533 #	353.050	0.000	358.300	549.3 *	353.440	9.452	352.780	0.000
26	353.340	9.459 *	353.415	14.47	353.040	0.000	355.500	147.0 *	353.430	8.890	352.750	0.000
27	353.030	0.000	353.285	7.119 #	353.030	0.000	355.300	127.4 *	353.410	8.137	352.720	0.000
28	353.175	3.359 #	353.950	53.94 *	353.020	0.000	355.100	109.0 *	353.450	8.242	352.690	0.000
29	352.920	0.000	354.220	83.61 *	353.010	0.000	354.940	95.20 *	353.390	7.670	352.630	0.000
30	352.810	0.000	353.730	34.15 *	353.010	0.000	354.760	80.72 *	352.870	0.006 *	352.630	0.000
31			354.150	75.36 *	353.460	0.000			353.360	7.160		
Ten-Daily Mean												
I Ten-Daily	352.765	0.497	352.716	0.000	353.389	14.56	353.618	30.51	356.309	315.1	353.569	17.83
II Ten-Daily	352.976	0.641	352.938	3.602	353.127	2.161	354.039	48.44	354.380	56.24	353.748	25.17
III Ten-Daily	353.084	1.769	353.646	37.31	353.080	0.106	356.406	311.3	353.394	8.459	352.778	0.000
Monthly												
Min.	352.300	0.000	352.600	0.000	353.010	0.000	352.800	0.000	352.870	0.006	352.630	0.000
Max.	353.340	9.459	354.220	83.61	353.940	52.95	360.820	1099	362.420	1535	354.390	54.39
Mean	352.995	0.969	353.145	14.4	353.195	5.433	354.688	130.1	354.652	122.8	353.365	14.34

Annual Runoff in MCM = 759 Annual Runoff in mm = 399

Peak Observed Discharge = 22.93 cumecs on 03-08-2016 Corres. Water Level :353.51 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	352.620	0.000	352.500	0.000	352.440	0.000	352.390	0.000	352.340	0.000	352.270	0.000
2	352.620	0.000	352.500	0.000	352.440	0.000	352.390	0.000	352.340	0.000	352.260	0.000
3	352.620	0.000	352.500	0.000	352.440	0.000	352.390	0.000	352.340	0.000	352.180	0.000
4	352.620	0.000	352.490	0.000	352.440	0.000	352.390	0.000	352.340	0.000		0.000
5	352.610	0.000	352.490	0.000	352.440	0.000	352.380	0.000	352.340	0.000		0.000
6	352.610	0.000	352.490	0.000	352.430	0.000	352.380	0.000	352.340	0.000		0.000
7	352.590	0.000	352.490	0.000	352.430	0.000	352.380	0.000	352.340	0.000		0.000
8	352.580	0.000	352.490	0.000	352.430	0.000	352.380	0.000	352.340	0.000		0.000
9	352.580	0.000	352.480	0.000	352.430	0.000	352.380	0.000	352.340	0.000		0.000
10	352.570	0.000	352.480	0.000	352.430	0.000	352.380	0.000	352.340	0.000		0.000
11	352.570	0.000	352.480	0.000	352.420	0.000	352.370	0.000	352.330	0.000		0.000
12	352.560	0.000	352.480	0.000	352.420	0.000	352.370	0.000	352.330	0.000		0.000
13	352.550	0.000	352.480	0.000	352.420	0.000	352.370	0.000	352.330	0.000		0.000
14	352.550	0.000	352.480	0.000	352.420	0.000	352.370	0.000	352.330	0.000		0.000
15	352.540	0.000	352.480	0.000	352.420	0.000	352.370	0.000	352.330	0.000		0.000
16	352.540	0.000	352.470	0.000	352.410	0.000	352.370	0.000	352.330	0.000		0.000
17	352.540	0.000	352.470	0.000	352.410	0.000	352.370	0.000	352.330	0.000		0.000
18	352.540	0.000	352.470	0.000	352.410	0.000	352.360	0.000	352.320	0.000		0.000
19	352.540	0.000	352.470	0.000	352.410	0.000	352.360	0.000	352.320	0.000		0.000
20	352.540	0.000	352.470	0.000	352.400	0.000	352.360	0.000	352.320	0.000		0.000
21	352.530	0.000	352.460	0.000	352.400	0.000	352.360	0.000	352.320	0.000		0.000
22	352.530	0.000	352.460	0.000	352.400	0.000	352.360	0.000	352.320	0.000		0.000
23	352.530	0.000	352.460	0.000	352.400	0.000	352.360	0.000	352.320	0.000		0.000
24	352.520	0.000	352.460	0.000	352.400	0.000	352.360	0.000	352.320	0.000		0.000
25	352.520	0.000	352.460	0.000	352.400	0.000	352.350	0.000	352.320	0.000		0.000
26	352.520	0.000	352.460	0.000	352.390	0.000	352.350	0.000	352.320	0.000		0.000
27	352.510	0.000	352.460	0.000	352.390	0.000	352.350	0.000	352.320	0.000		0.000
28	352.510	0.000	352.450	0.000	352.390	0.000	352.350	0.000	352.300	0.000		0.000
29	352.510	0.000	352.450	0.000			352.350	0.000	352.300	0.000		0.000
30	352.510	0.000	352.450	0.000			352.350	0.000	352.290	0.000		0.000
31	352.500	0.000	352.450	0.000			352.350	0.000				0.000
Ten-Daily M												
I Ten-Daily	352.602	0.000	352.491	0.000	352.435	0.000	352.384	0.000	352.340	0.000	352.237	0.000
II Ten-Daily	352.547	0.000	352.475	0.000	352.414	0.000	352.367	0.000	352.327	0.000		0.000
III Ten-Daily	352.517	0.000	352.456	0.000	352.396	0.000	352.354	0.000	352.313	0.000		0.000
Monthly												
Min.	352.500	0.000	352.450	0.000	352.390	0.000	352.350	0.000	352.290	0.000	352.180	0.000
Max.	352.620	0.000	352.500	0.000	352.440	0.000	352.390	0.000	352.340	0.000	352.270	0.000
Mean	352.554	0	352.474	0	352.416	0	352.368	0	352.327	0	352.237	0

Peak Computed Discharge = 1535 cumecs on 02-10-2016 Corres. Water Level :362.42 m

Lowest Computed Discharge = 0.006 cumecs on 30-10-2016 Corres. Water Level :352.87 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

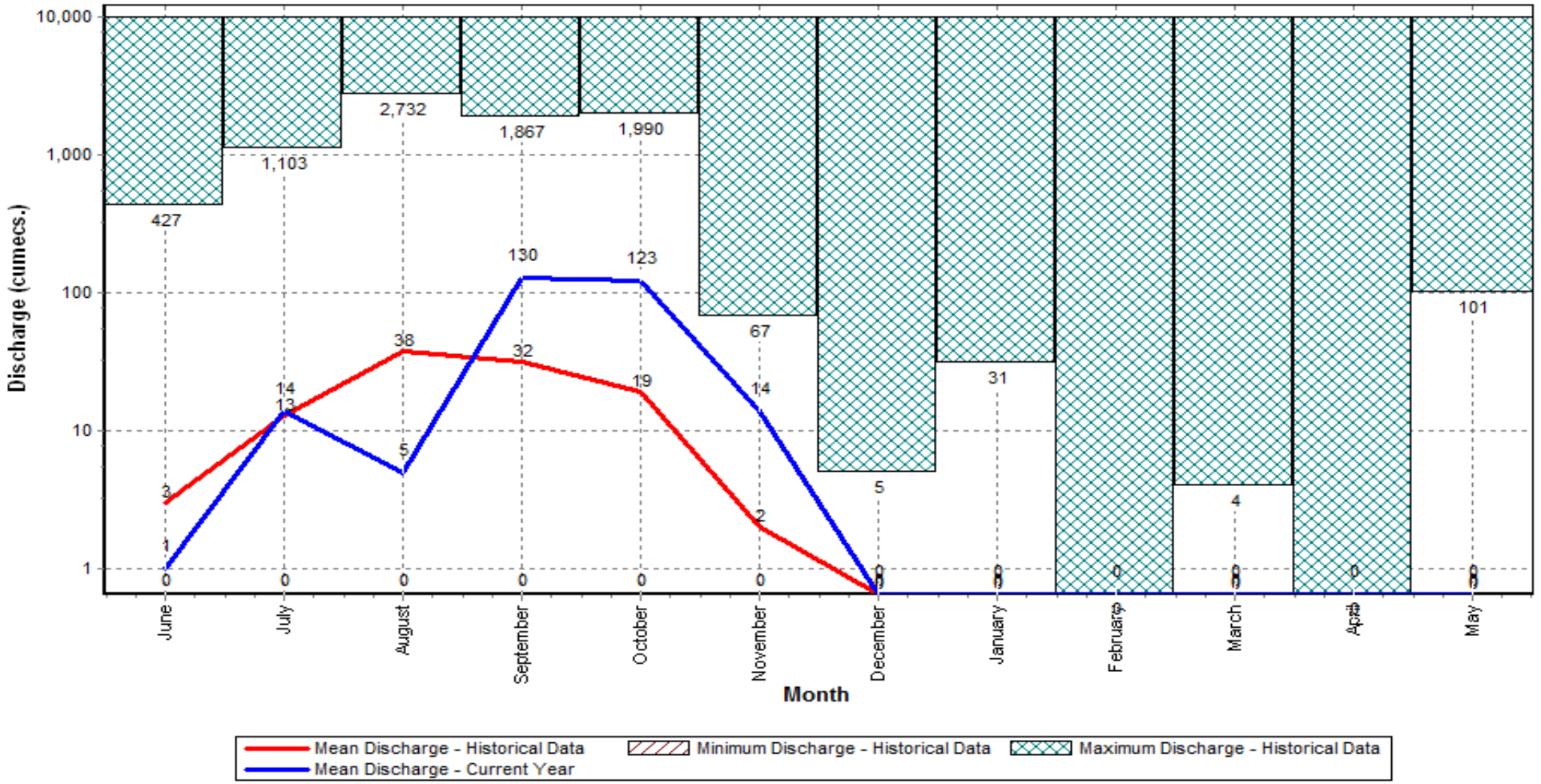
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Degloor (AGP20F4) | **Data considered : 1988-2017** | **Division : U Godavari Div., Hyderabad**

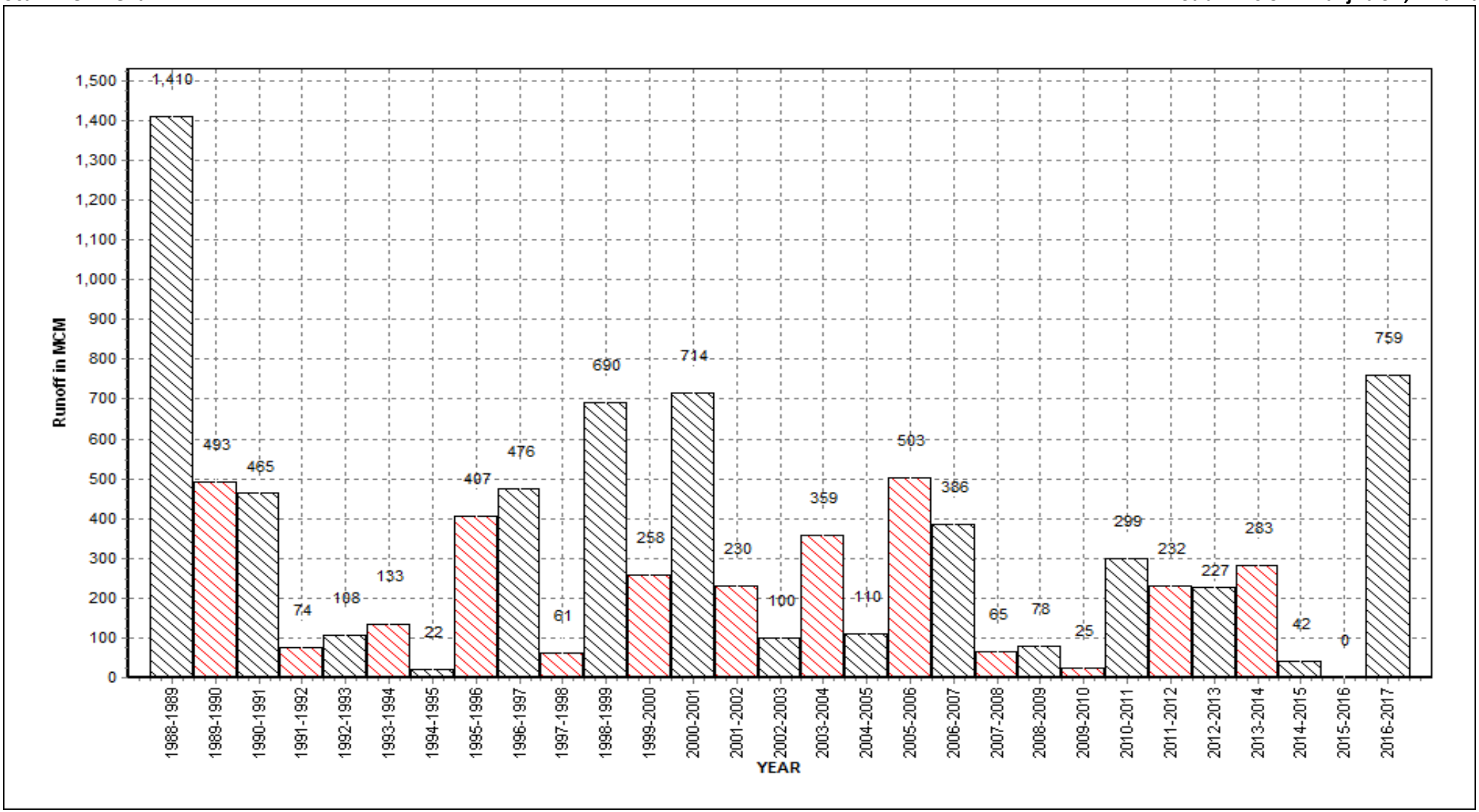
Local River : Lendi | **Sub-Division : Manjira SD, Nizamabad**



Annual Runoff Values for the period: 1988 - 2017

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**



Note: Missing values have not been considered while arriving at Annual Runoff

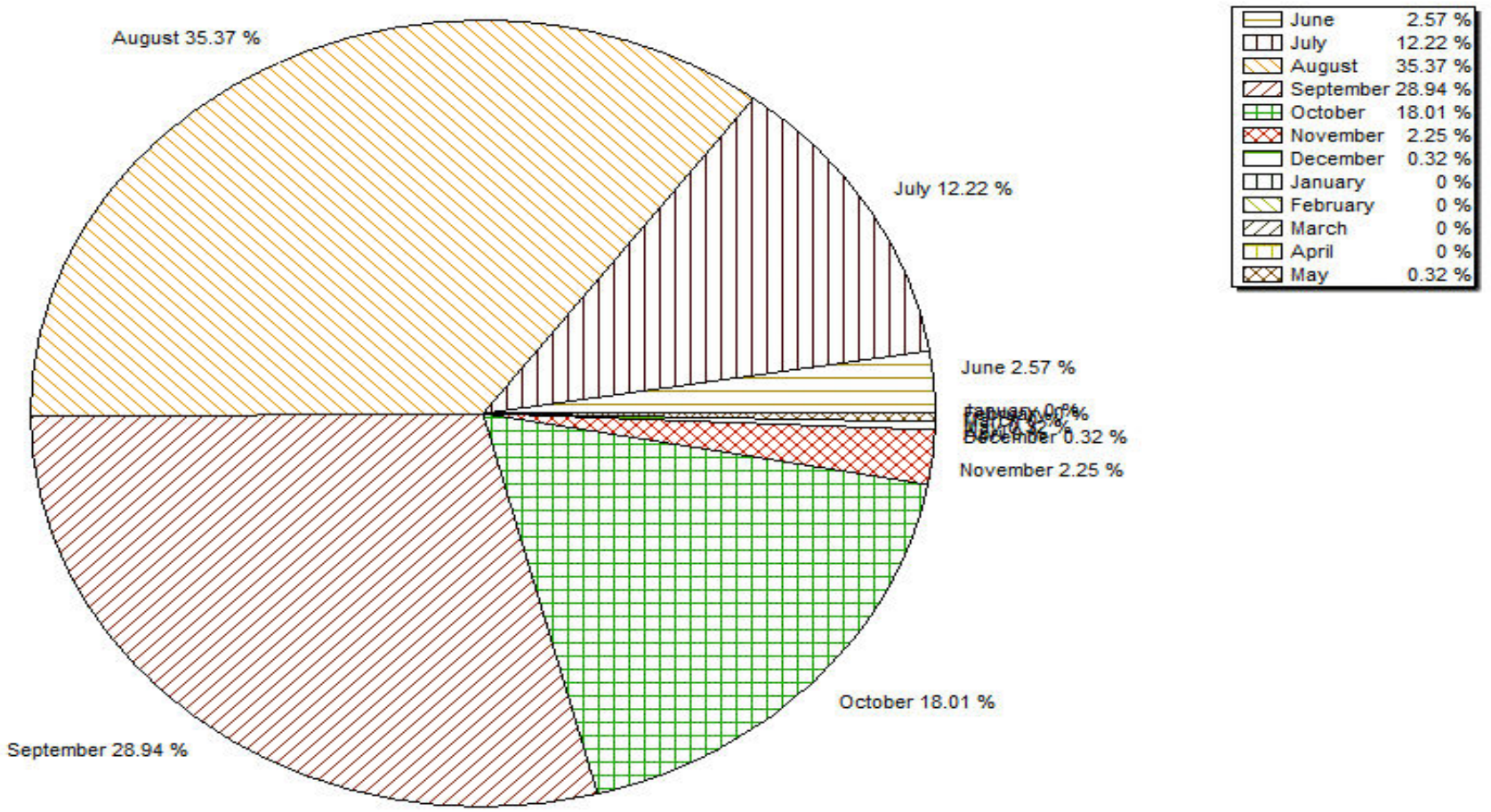
Monthly Average Runoff based on period : 1988-2016

Station Name : Degloor (AGP20F4)

Local River : Lendi

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad



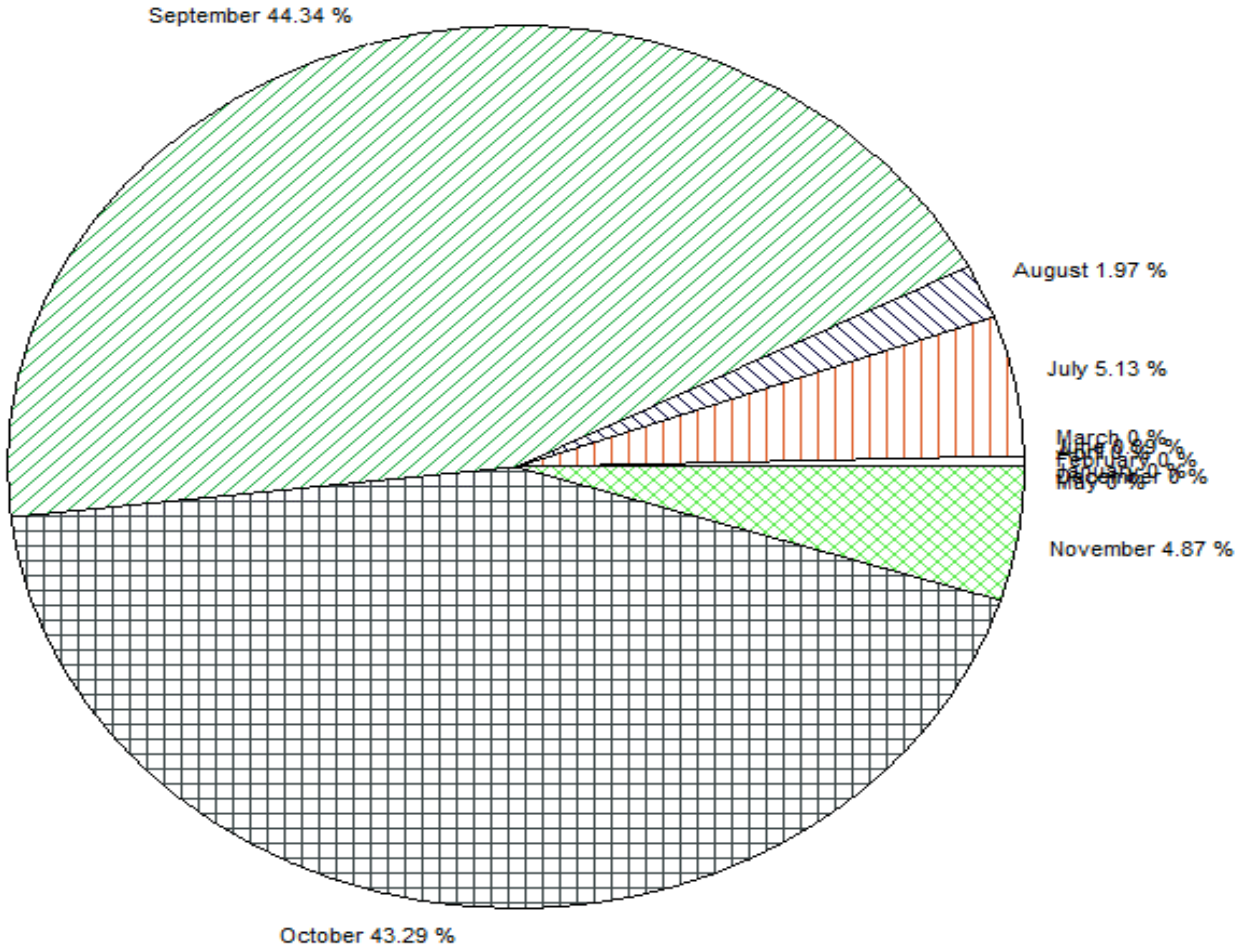
Monthly Runoff for the Year : 2016-2017

Station Name : Degloor (AGP20F4)

Local River : Lendi

Division : U Godavari Div., Hyderabad

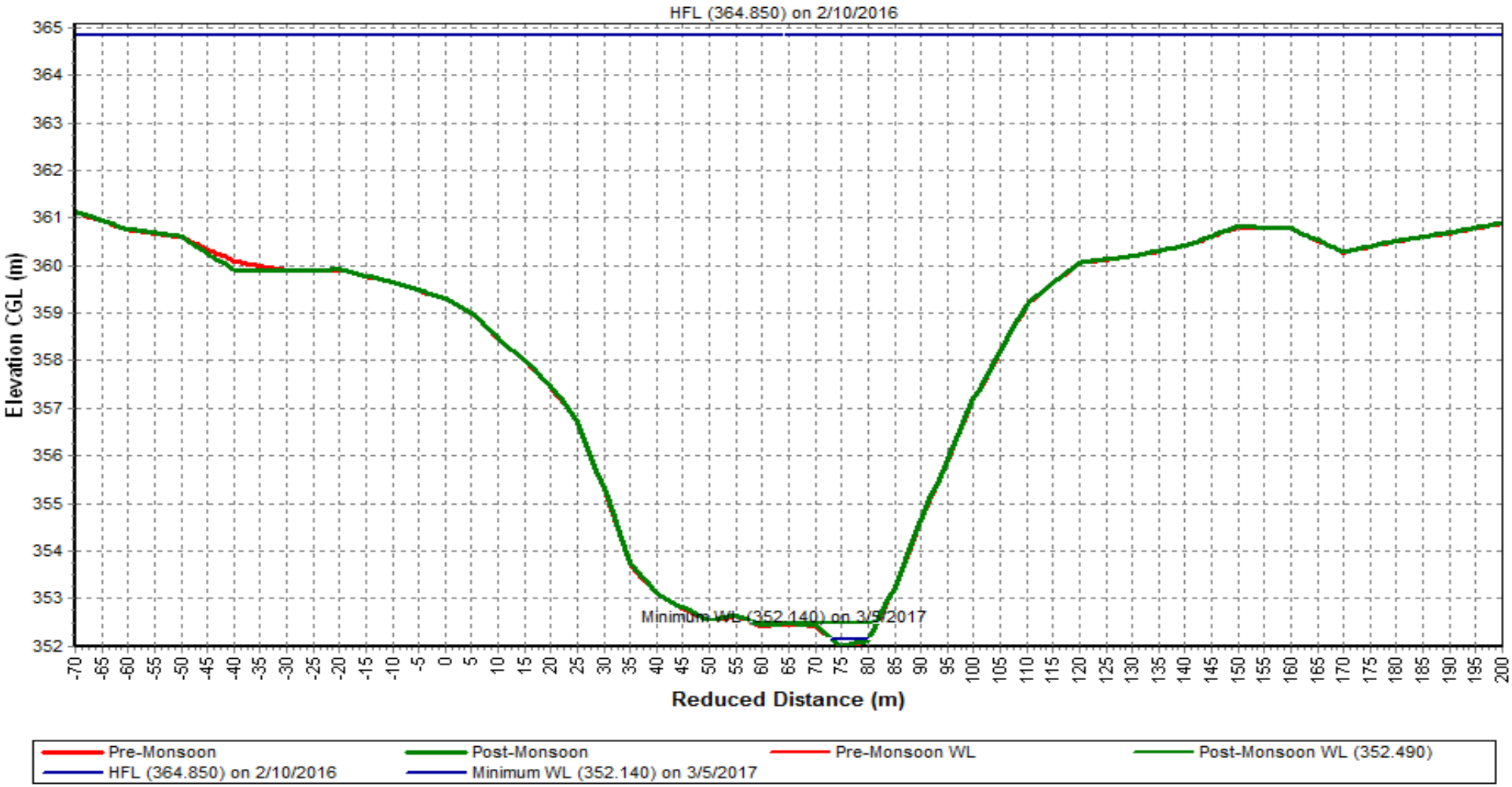
Sub-Division : Manjira SD, Nizamabad



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

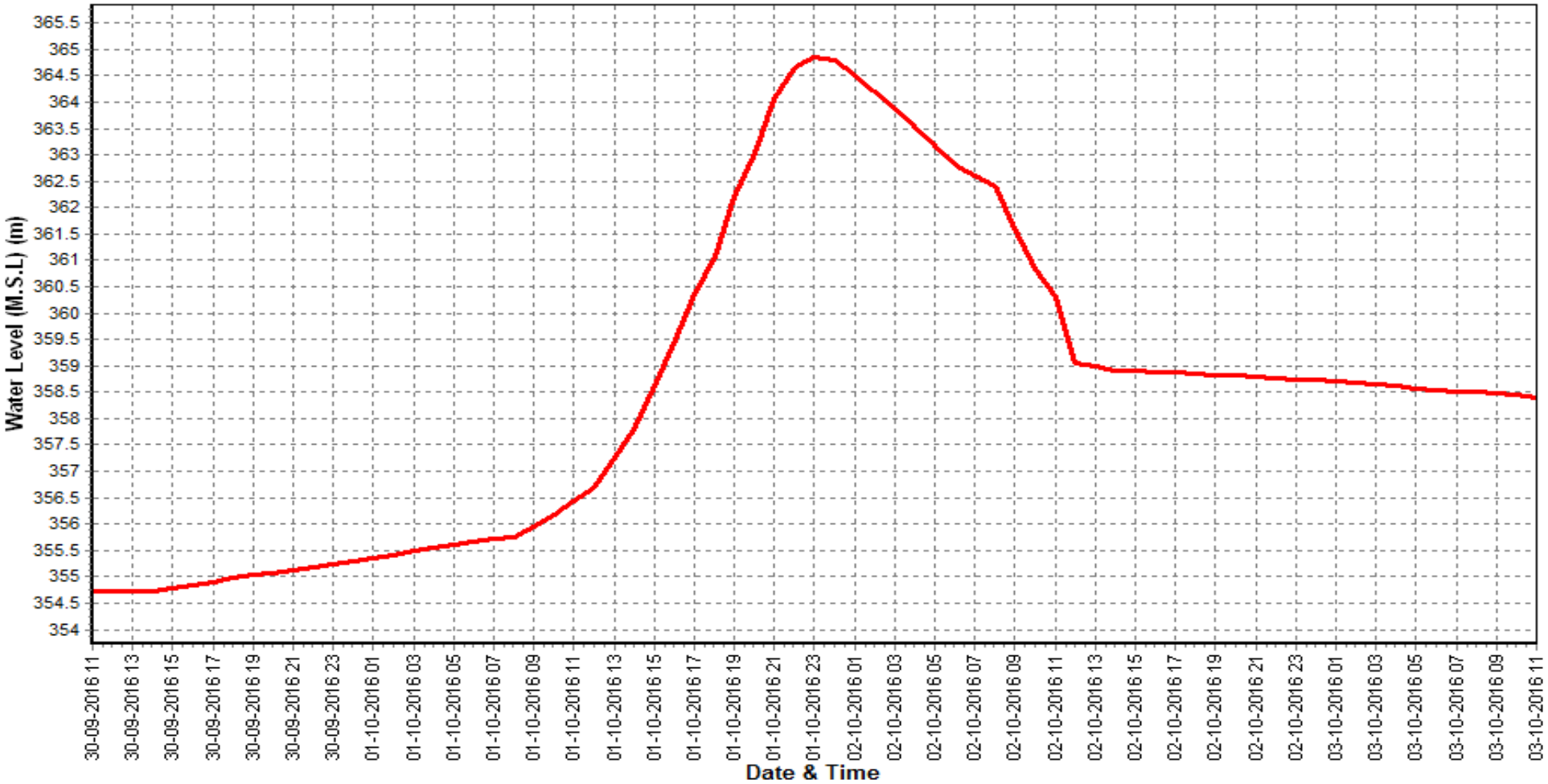
Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**



Time Span: 72 Hrs

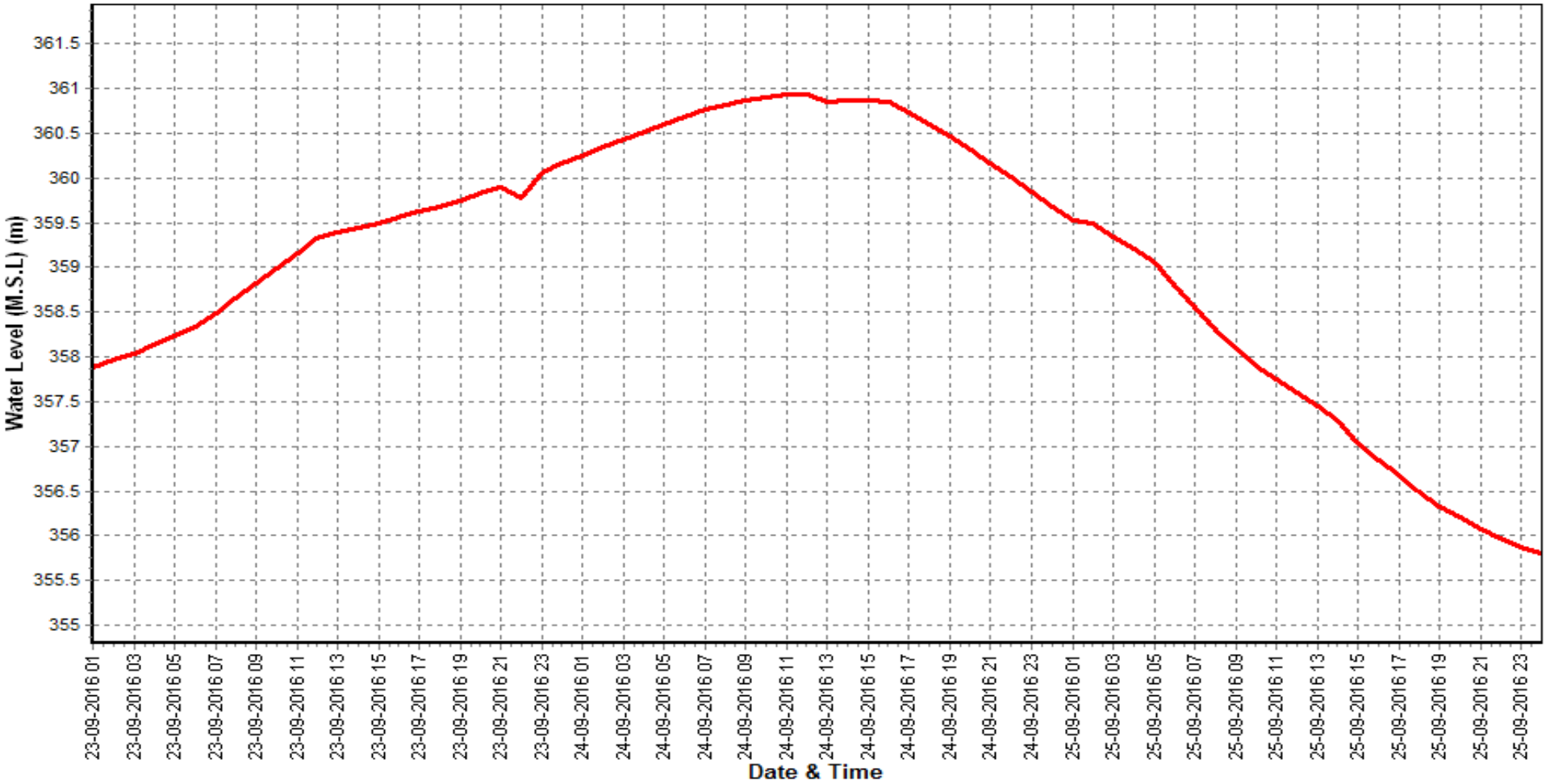
Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Degloor (AGP20F4)

Local River : Lendi

Division : U Godavari Div., Hyderabad

Sub-Division : Manjira SD, Nizamabad

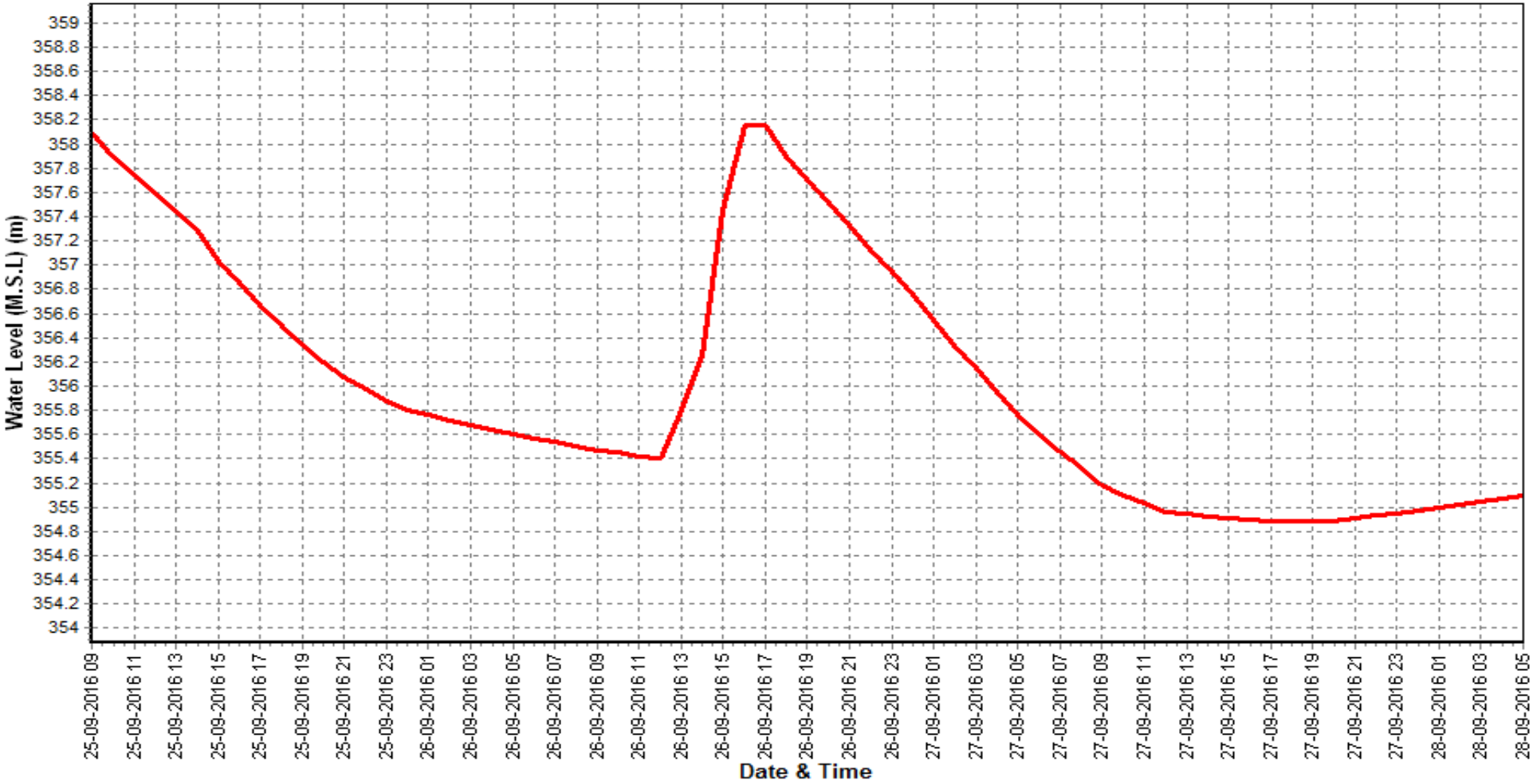


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Degloor (AGP20F4) **Division : U Godavari Div., Hyderabad**

Local River : Lendi **Sub-Division : Manjira SD, Nizamabad**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Saigaon**	**Code**	**:**	**AGP00N8**
State	:	Karnataka	District		Bidar
Basin	:	Ganga-Brahm-Meghna Basin	Independent River	:	Godavari
Tributary	:	Manjera	Sub Tributary	:	
Sub-Sub Tributary	:		Local River	:	Manjera/Godavari
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Manjira SD, Nizamabad
Drainage Area	:	9960 Sq. Km.	Bank	:	
Latitude	:	18°03'00"	Longitude	:	77°03'00"
Zero of Gauge (m)	:	542.723 (m.s.l)	01.06.2010		
		542.723 (m.s.l)	01.08.1964	-	31.05.2010
		542.723 (m.s.l)	01.01.2000	-	31.05.2006
		Opening Date	Closing Date		
Gauge	:	01.08.1964	**HFL During 2016-17**	**:**	**554.153**
			Corres.Discharge	**:**	**179.219 Cumecs(Estimated)**
Discharge	:	10.11.1967	**Date& Time of**	**:**	**24.09.2016**
			Occurance	**:**	**15:00**
Sediment	:	19.07.1973			
Water Quality	:	16.08.1973			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1967-1968	1992	551.838	29.09.1967	0.000		10.06.1967
1968-1969	1169	550.096	02.10.1968	0.000		04.05.1969
1969-1970	2991	552.798	07.09.1969	0.000		08.05.1970
1970-1971	2716	553.143	20.09.1970	0.000		14.05.1971
1971-1972	899.1	549.308	25.08.1971	0.000		27.05.1972
1972-1973	325.2	546.238	24.06.1972	0.000		25.10.1972
1973-1974	856.8	548.683	02.07.1973	0.000		09.05.1974
1974-1975	613.9	548.233	24.10.1974	0.000		11.05.1975
1975-1976	1297	550.861	06.10.1975	0.000	543.303	17.05.1976
1976-1977	365.4	547.485	26.08.1976	0.000		22.04.1977
1977-1978	704.7	548.033	30.11.1977	0.000	543.113	05.05.1978
1978-1979	901.5	548.973	16.06.1978	0.000	543.013	16.04.1979
1979-1980	1125	550.308	28.09.1979	0.000	542.958	11.05.1980
1980-1981	791.7	549.003	24.08.1980	0.000	543.003	31.03.1981
1981-1982	676.0	548.708	18.09.1981	0.000	543.063	02.04.1982
1982-1983	462.2	547.593	22.09.1982	0.000	542.918	14.02.1983
1983-1984	3395	554.253	07.10.1983	0.000	543.093	07.05.1984
1984-1985	192.0	546.083	02.08.1984	0.000	543.233	12.01.1985
1985-1986	438.4	547.498	05.10.1985	0.000		25.01.1986
1986-1987	119.7	545.543	18.09.1986	0.000		25.01.1987

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	499.6	548.198	16.08.1987	0.000		22.02.1988
1988-1989	1760	552.073	30.09.1988	0.000		09.05.1989
1989-1990	1507	551.553	25.07.1989	0.000		13.03.1990
1990-1991	2697	554.443	17.08.1990	0.000	543.203	21.03.1991
1991-1992	1091	550.368	09.07.1991	0.000		26.01.1992
1992-1993	1219	550.643	03.09.1992	0.000		21.03.1993
1993-1994	335.9	546.923	22.10.1993	0.000	543.153	25.01.1994
1994-1995	91.42	545.048	14.06.1994	0.000		25.01.1995
1995-1996	318.4	546.998	20.10.1995	0.000		09.02.1996
1996-1997	2486	552.653	17.09.1996	0.000	543.023	21.02.1997
1997-1998	67.33	545.028	04.07.1997	0.000		30.12.1997
1998-1999	3285	553.693	17.10.1998	0.000		05.03.1999
1999-2000	588.9	548.763	14.10.1999	0.000		08.02.2000
2000-2001	2858	553.483	26.08.2000	0.000	542.913	25.01.2001
2001-2002	822.7	548.863	01.10.2001	0.000	542.843	25.01.2002
2002-2003	87.51	545.388	24.08.2002	0.000	542.793	02.03.2003
2003-2004	277.3	546.558	25.08.2003	0.000	542.793	23.01.2004
2004-2005	169.0	546.543	31.07.2004	0.000		22.01.2005
2005-2006	1922	551.683	24.09.2005	0.000	542.793	07.02.2006
2006-2007	901.8	549.478	07.08.2006	0.000	542.983	25.01.2007
2007-2008	1206	549.658	20.09.2007	0.000		26.01.2008
2008-2009	2142	552.473	14.09.2008	0.000	542.773	19.12.2008
2009-2010	170.4	546.483	05.10.2009	0.000		25.01.2010
2010-2011	2012	552.008	26.08.2010	0.000		17.02.2011
2011-2012	803.2	549.273	27.08.2011	0.000		25.01.2012
2012-2013	275.8	546.933	04.09.2012	0.000		05.05.2013
2013-2014	160.0	546.223	20.07.2013	0.000		20.06.2013
2014-2015	45.33	546.113	31.08.2014	0.000	542.723	25.01.2015
2015-2016	1.647	543.428	19.09.2015	0.000	542.723	02.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000	543.003	0.000	549.153	83.73 *		0.000	546.123	34.59 *	544.473	12.45 *
2		0.000	542.963	0.000	544.713	15.37 *		0.000	551.663	129.9 *	543.943	6.659
3		0.000	542.873	0.000	544.443	12.09 *		0.000	554.023	176.6 *	543.788	5.060
4		0.000	542.803	0.000	543.718	4.240 #		0.000	551.503	126.8 *	543.763	4.896
5		0.000	542.783	0.000	543.698	3.135		0.000	549.923	97.44 *	543.813	5.881
6		0.000	542.823	0.000	543.718	3.742		0.000	549.573	91.15 *	543.633	3.442 *
7		0.000	542.783	0.000	543.623	3.350 *		0.000	546.233	36.21 *	543.453	1.879
8		0.000	542.763	0.000	543.398	1.443 #		0.000	546.743	43.91 *	543.518	2.421
9		0.000	542.753	0.000	543.253	0.393		0.000	550.623	110.3 *	543.403	1.482
10		0.000	542.753	0.000	543.718	4.787		0.000	548.963	80.41 *	543.288	0.691
11		0.000	542.753	0.000	543.673	3.813 #		0.000	546.193	35.62 *	543.233	0.316
12		0.000	542.763	0.000	543.323	0.891 #		0.000	545.723	28.83 *	543.233	0.316
13		0.000	542.763	0.000	543.418	1.428		0.000	544.513	12.92 *	543.153	0.000
14		0.000	542.753	0.000	543.623	3.350 *		0.000	544.063	7.612	543.173	0.000
15		0.000	542.743	0.000	543.223	0.260 *	549.623	92.05 *	545.403	24.39 *	543.163	0.000
16		0.000	542.743	0.000	543.093	0.000	551.663	129.9 *	545.113	20.50 *	543.153	0.000
17		0.000	542.733	0.000	543.033	0.000	549.073	82.33 *	544.243	10.20	543.153	0.000
18		0.000	542.733	0.000	542.983	0.000	548.223	67.76 *	545.573	26.73 *	543.143	0.000
19		0.000		0.000	542.933	0.000	544.613	14.14 *	545.023	19.32 *	543.133	0.000
20	545.873	30.97 *		0.000	542.973	0.000	545.773	29.54 *	543.723	4.726	543.123	0.000
21	543.603	2.057		0.000	543.023	0.000	545.723	28.83 *	543.418	1.599	543.113	0.000
22	543.471	1.527		0.000	542.983	0.000	547.603	57.52 *	543.283	0.633	543.103	0.000
23	544.713	15.37 *		0.000	542.943	0.000	551.363	124.1 *	543.233	0.316 *	543.053	0.000
24	543.338	0.283		0.000	542.903	0.000	554.063	177.4 *	543.268	0.521	543.043	0.000
25	543.123	0.000 *		0.000	542.863	0.000	553.413	164.2 *	543.253	0.433	543.023	0.000
26	543.073	0.000 *		0.000	542.813	0.000	551.623	129.1 *	543.228	0.288	542.973	0.000
27	543.033	0.000 *	543.123	0.000	542.773	0.000	549.663	92.76 *	543.263	0.554	542.933	0.000
28	543.033	0.000 *	542.983	0.000	542.743	0.000	547.283	52.37 *	544.058	7.787	542.883	0.000
29	543.033	0.000 *	542.823	0.000	542.733	0.000	545.143	20.89 *	544.473	12.45 *	542.853	0.000
30	543.023	0.000 *	544.523	13.04 *		0.000	546.003	32.84 *	544.073	7.882 *	542.813	0.000
31			546.243	36.36 *		0.000			544.213	8.829		
Ten-Daily Mean												
I Ten-Daily		0.000	542.830	0.000	544.343	13.23		0.000	549.537	92.72	543.708	4.486
II Ten-Daily	545.873	3.097	542.748	0.000	543.228	0.974	548.161	41.57	544.957	19.08	543.166	0.063
III Ten-Daily	543.344	1.924	543.939	4.491	542.864	0.000	549.188	88.00	543.615	3.753	542.979	0.000
Monthly												
Min.	543.023	0.000	542.733	0.000	542.733	0.000	544.613	0.000	543.228	0.288	542.813	0.000
Max.	545.873	30.97	546.243	36.36	549.153	83.73	554.063	177.4	554.023	176.6	544.473	12.45
Mean	543.574	1.673	543.043	1.594	543.500	4.581	548.803	43.19	545.958	37.4	543.284	1.516

Annual Runoff in MCM = 237 Annual Runoff in mm = 24

Peak Observed Discharge = 10.20 cumecs on 17-10-2016 Corres. Water Level :544.243 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	542.803	0.000		0.000		0.000		0.000		0.000		0.000
2	542.793	0.000		0.000		0.000		0.000		0.000		0.000
3	542.783	0.000		0.000		0.000		0.000		0.000		0.000
4	542.773	0.000		0.000		0.000		0.000		0.000		0.000
5	542.773	0.000		0.000		0.000		0.000		0.000		0.000
6	542.763	0.000		0.000		0.000		0.000		0.000		0.000
7	542.753	0.000		0.000		0.000		0.000		0.000		0.000
8	542.743	0.000		0.000		0.000		0.000		0.000		0.000
9	542.743	0.000		0.000		0.000		0.000		0.000		0.000
10	542.733	0.000		0.000		0.000		0.000		0.000		0.000
11	542.733	0.000		0.000		0.000		0.000		0.000		0.000
12		0.000		0.000		0.000		0.000		0.000		0.000
13		0.000		0.000		0.000		0.000		0.000		0.000
14		0.000		0.000		0.000		0.000		0.000		0.000
15		0.000		0.000		0.000		0.000		0.000		0.000
16		0.000		0.000		0.000		0.000		0.000		0.000
17		0.000		0.000		0.000		0.000		0.000		0.000
18		0.000		0.000		0.000		0.000		0.000		0.000
19		0.000		0.000		0.000		0.000		0.000		0.000
20		0.000		0.000		0.000		0.000		0.000		0.000
21		0.000		0.000		0.000		0.000		0.000		0.000
22		0.000		0.000		0.000		0.000		0.000		0.000
23		0.000		0.000		0.000		0.000		0.000		0.000
24		0.000		0.000		0.000		0.000		0.000		0.000
25		0.000		0.000		0.000		0.000		0.000		0.000
26		0.000		0.000		0.000		0.000		0.000		0.000
27		0.000		0.000		0.000		0.000		0.000		0.000
28		0.000		0.000		0.000		0.000		0.000		0.000
29		0.000		0.000				0.000		0.000		0.000
30		0.000		0.000				0.000		0.000		0.000
31		0.000		0.000				0.000				0.000
Ten-Daily Me												
I Ten-Daily	542.766	0.000		0.000		0.000		0.000		0.000		0.000
II Ten-Daily	542.733	0.000		0.000		0.000		0.000		0.000		0.000
III Ten-Daily		0.000		0.000		0.000		0.000		0.000		0.000
Monthly												
Min.	542.733	0.000		0.000		0.000		0.000		0.000		0.000
Max.	542.803	0.000		0.000		0.000		0.000		0.000		0.000
Mean	542.763	0		0		0		0		0		0

Peak Computed Discharge = 177.4 cumecs on 24-09-2016 Corres. Water Level :554.063 m

Lowest Computed Discharge = 0.000 cumecs on 25-06-2016 Corres. Water Level :543.123 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

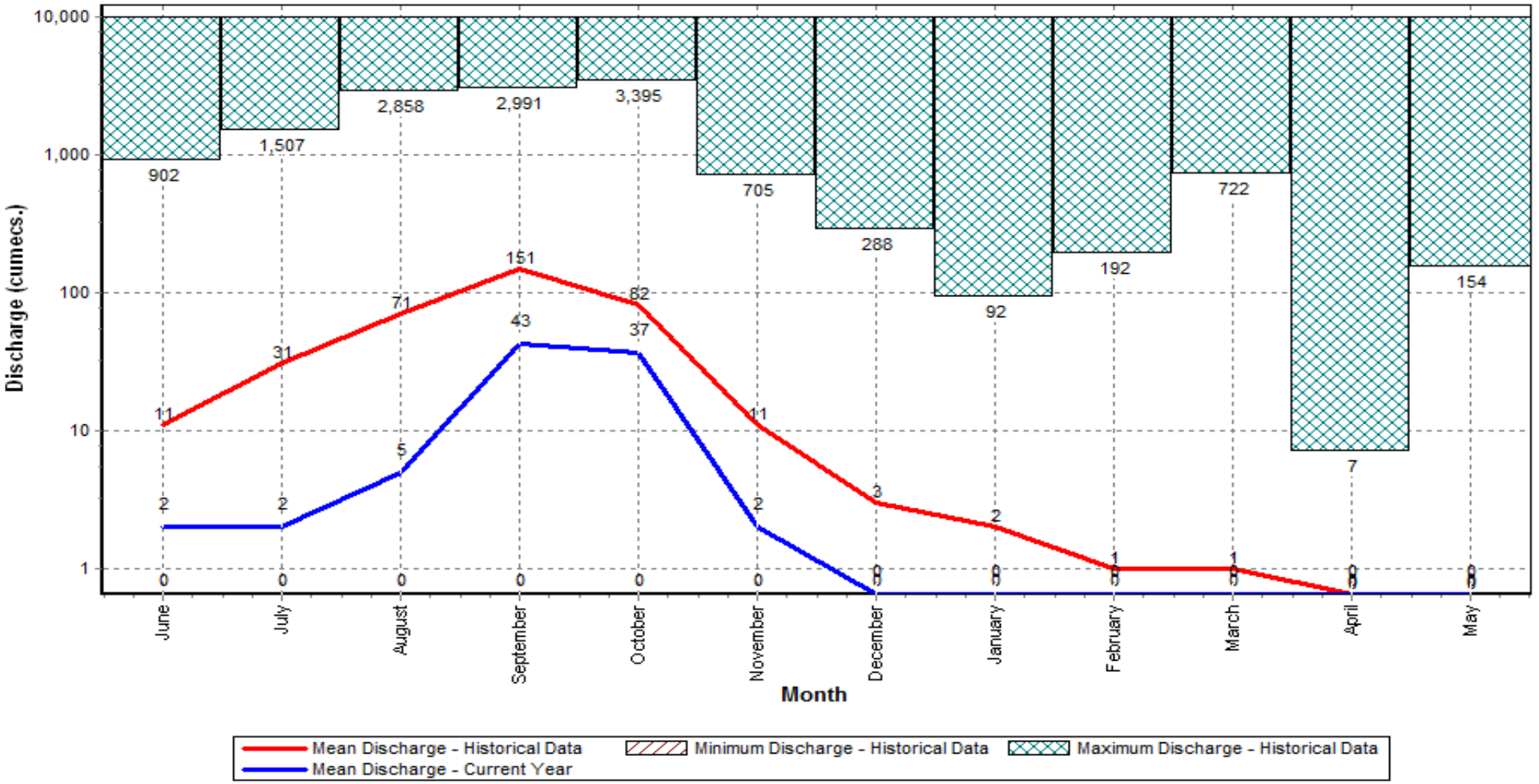
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Saigaon (AGP00N8) | **Data considered : 1967-2017** | **Division : U Godavari Div., Hyderabad**

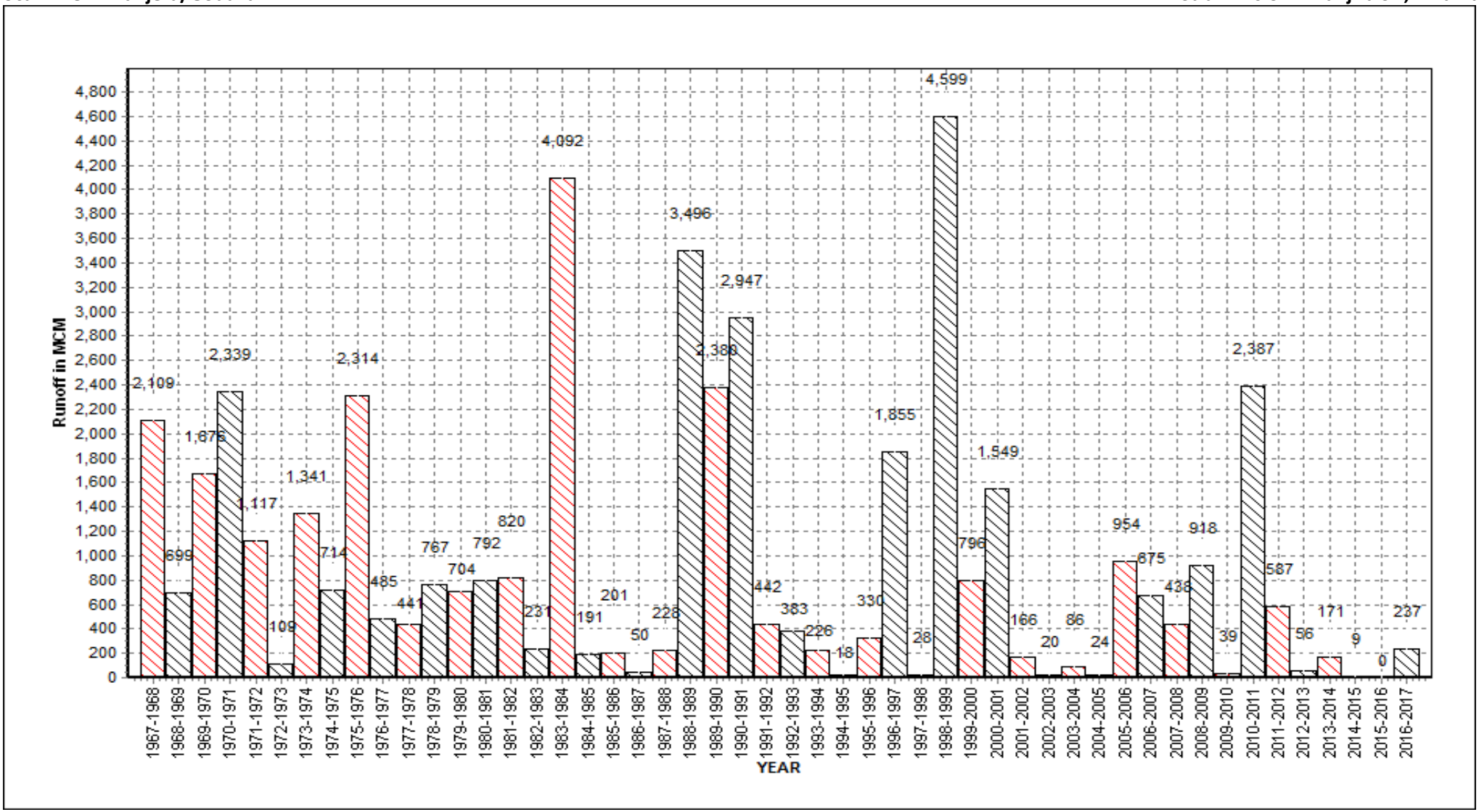
Local River : Manjera/Godavari | **Sub-Division : Manjira SD, Nizamabad**



Annual Runoff Values for the period: 1967 - 2017

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

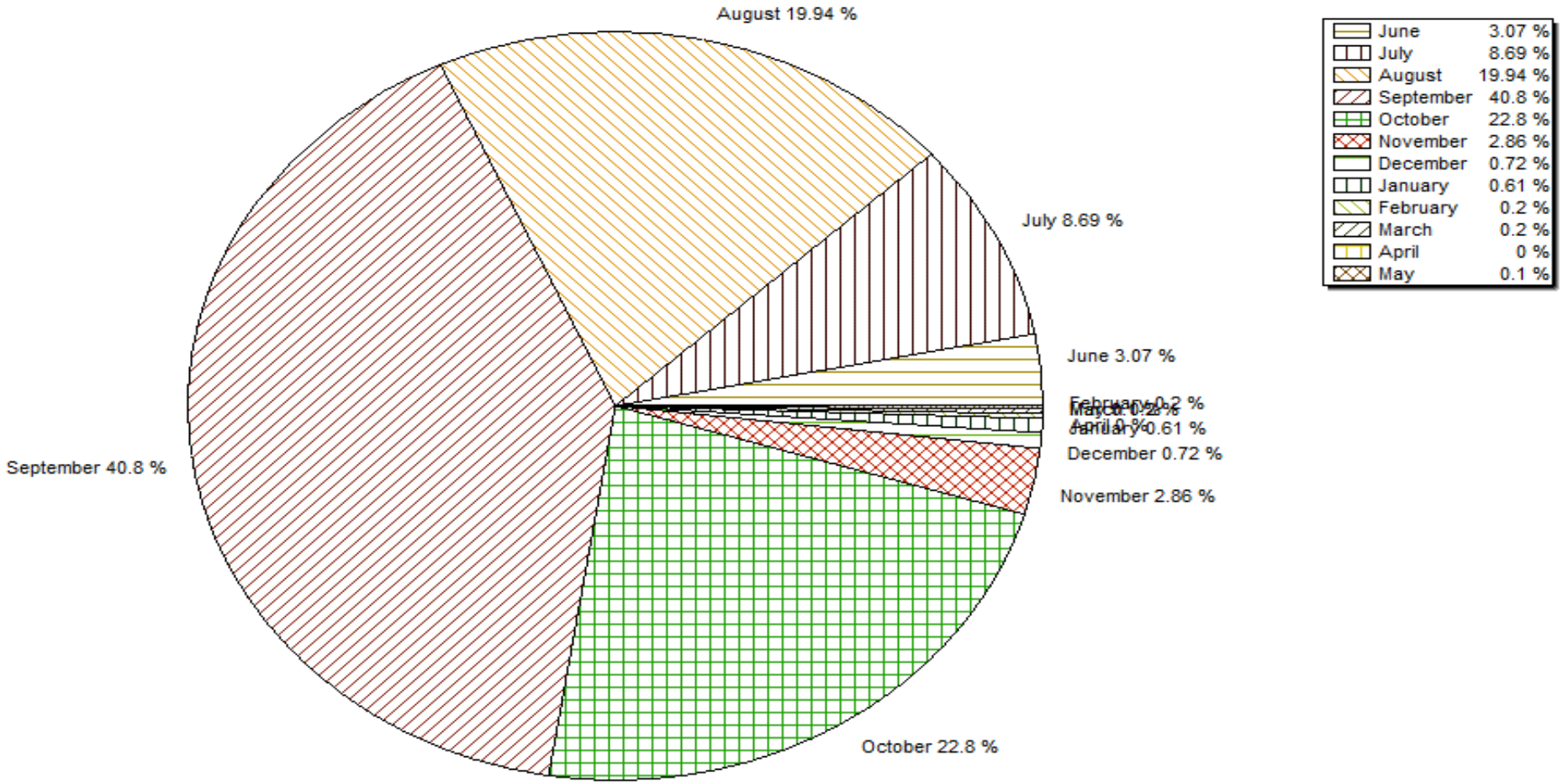


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1967-2016

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

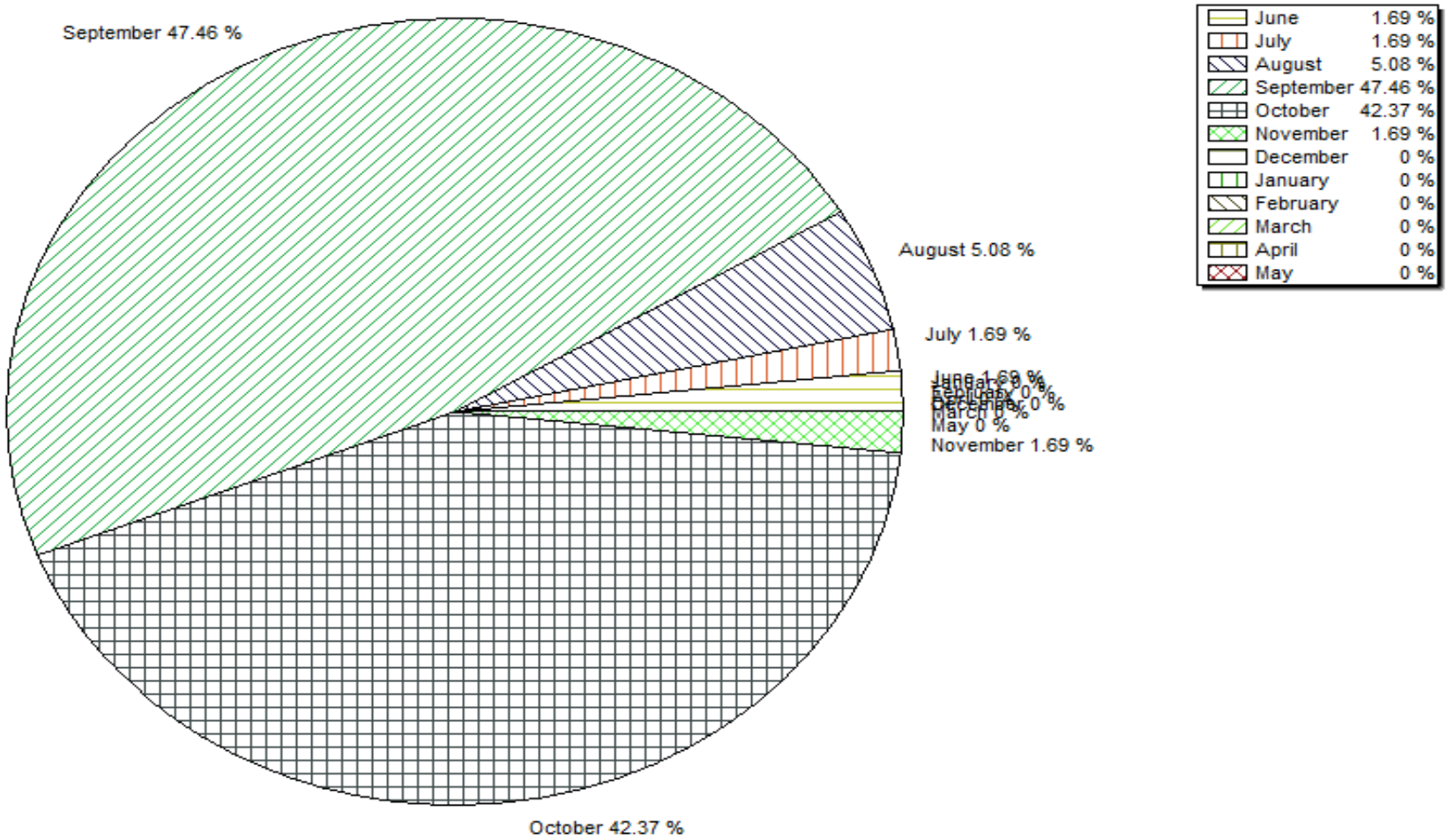
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Monthly Runoff for the Year : 2016-2017

Station Name : Saigaon (AGP00N8)
Local River : Manjera/Godavari

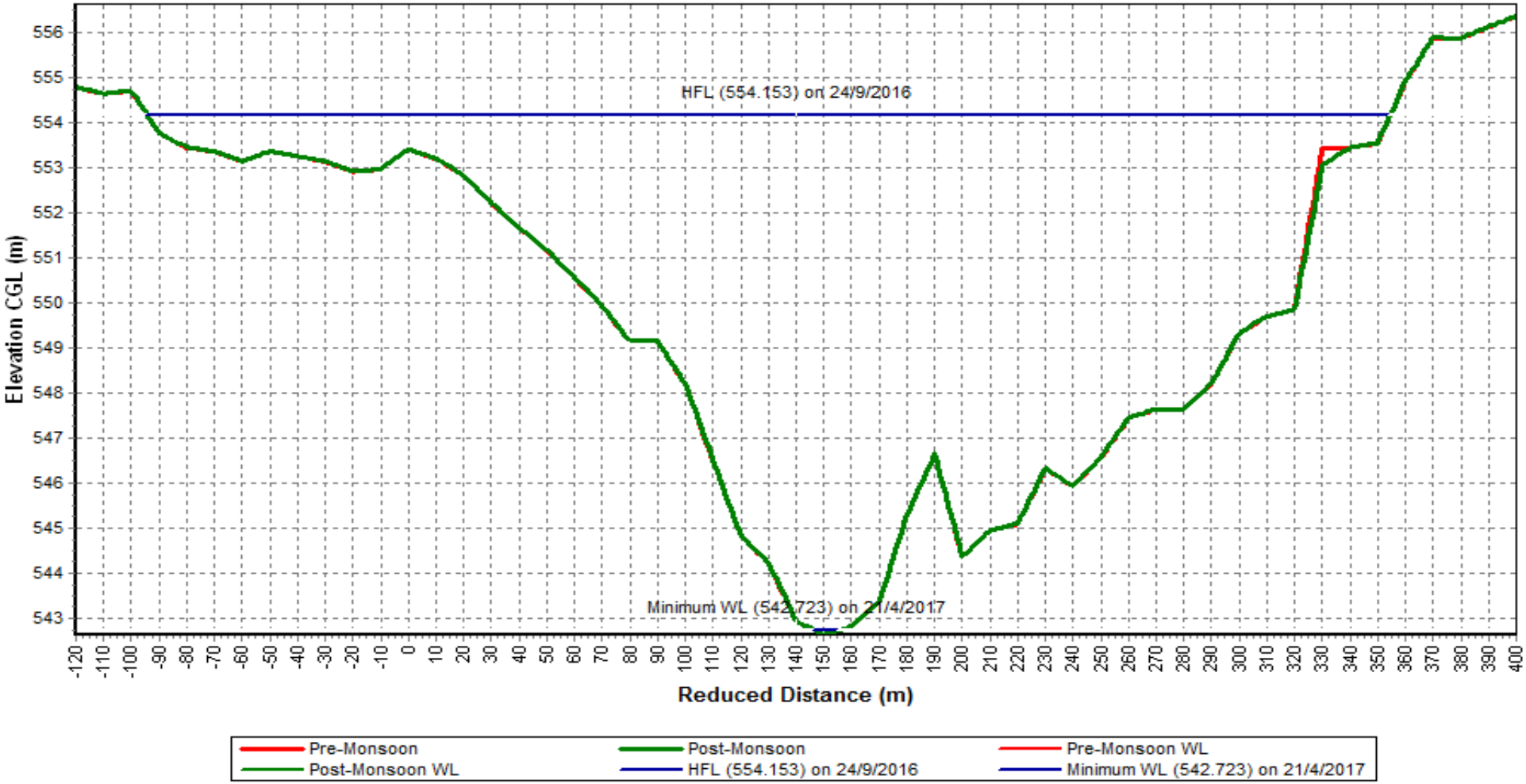
Division : U Godavari Div., Hyderabad
Sub-Division : Manjira SD, Nizamabad



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

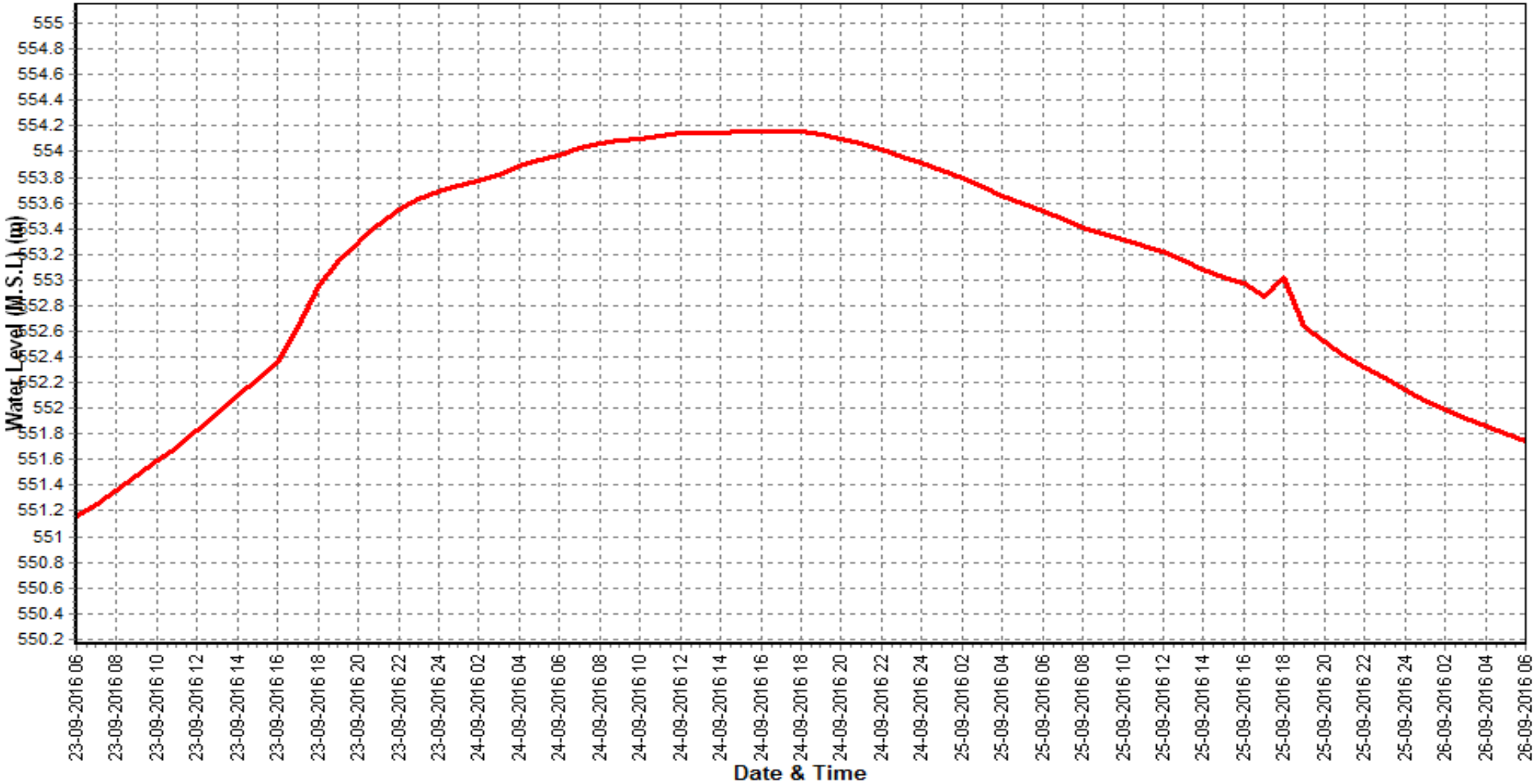
Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

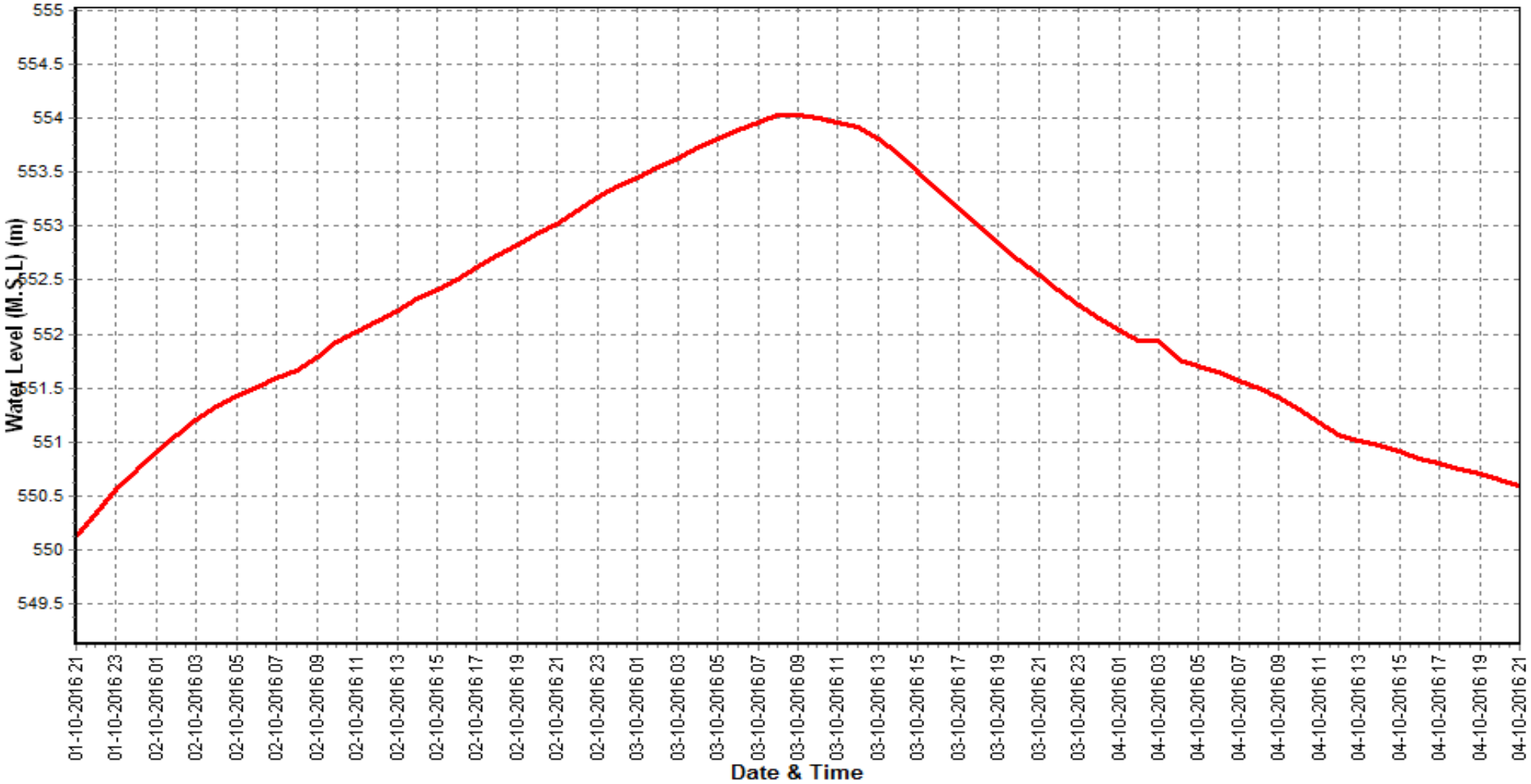


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**

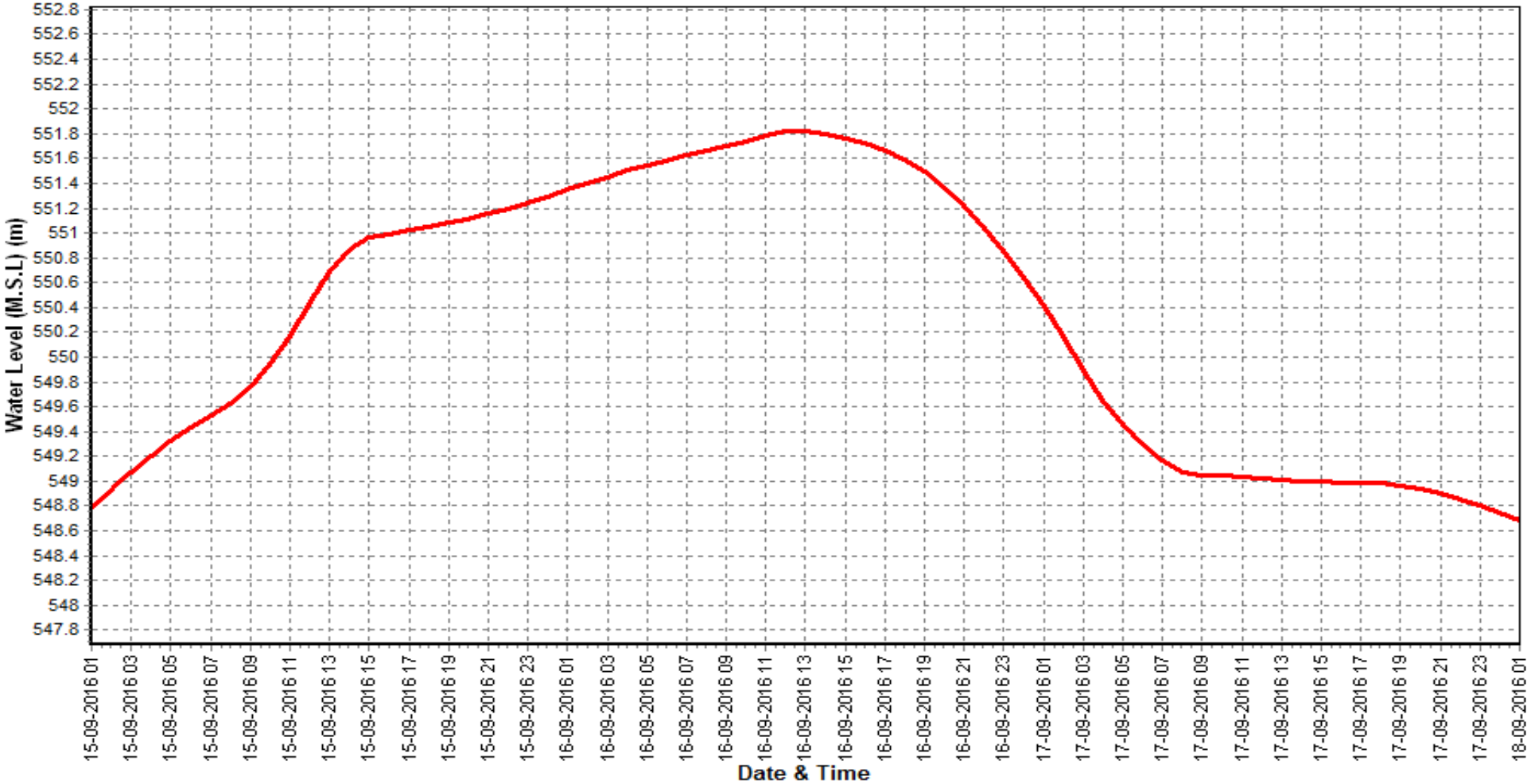


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Saigaon (AGP00N8) **Division : U Godavari Div., Hyderabad**

Local River : Manjera/Godavari **Sub-Division : Manjira SD, Nizamabad**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Yelli**		**Code**	**: AG000P3**	
State	: Maharashtra		District	Nanded	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: -		Sub Tributary	: --'	
Sub-Sub Tributary	: ---		Local River	: Godavari	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Purna SD, Nanded	
Drainage Area	: 53630 Sq. Km.		Bank	: Right	
Latitude	: 19°02'00"		Longitude	: 77°28'00"	
Zero of Gauge (m)	: 334.3 (m.s.l) 334.3 (m.s.l)		21.06.1976 01.06.2015	- 31.05.2015	
	Opening Date		Closing Date		
Gauge	: 21.06.1976		**HFL During 2016-17**	**: 346.22**	
			Corres.Discharge	**: 6596.855 Cumecs(Estimated)**	
Discharge	: 22.04.1978		**Date& Time of Occurance**	**: 26.09.2016 : 12:00**	
Sediment	: 01.06.1978				
Water Quality	: 01.07.1978				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1978-1979	1390	339.930	08.07.1978	7.000	335.670	28.04.1979
1979-1980	5018	345.065	27.09.1979	3.900	335.780	19.04.1980
1980-1981	5343	345.953	22.08.1980	6.064	335.790	29.04.1981
1981-1982	2284	342.338	24.09.1981	6.404	335.905	21.07.1981
1982-1983	1475	340.313	12.07.1982	0.567	335.415	20.05.1983
1983-1984	9815	351.100	13.08.1983	3.200	335.505	02.06.1983
1984-1985	2050	341.825	11.10.1984	4.000	335.750	11.03.1985
1985-1986	574.1	338.100	08.10.1985	0.000		20.04.1986
1986-1987	1655	340.118	19.07.1986	0.000		10.03.1987
1987-1988	2811	342.170	07.10.1987	0.000		02.06.1987
1988-1989	6763	347.800	31.07.1988	2.358	335.550	02.06.1988
1989-1990	8552	349.733	26.07.1989	0.002	335.640	06.02.1990
1990-1991	8720	348.025	17.08.1990	10.20	335.800	29.12.1990
1991-1992	3804	343.450	12.07.1991	0.114	335.320	31.05.1992
1992-1993	5075	345.145	03.09.1992	0.000		04.05.1993
1993-1994	1775	341.078	30.07.1993	0.000		29.04.1994
1994-1995	2490	341.990	10.09.1994	0.000		02.06.1994
1995-1996	1800	341.073	20.10.1995	0.000		06.02.1996
1996-1997	3533	343.280	17.09.1996	0.000		10.03.1997
1997-1998	3487	343.608	19.09.1997	0.000		20.02.1998
1998-1999	5864	347.400	30.07.1998	0.000	335.300	05.05.1999

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1999-2000	2958	342.970	09.09.1999	0.000	335.310	02.05.2000
2000-2001	6803	348.293	29.08.2000	0.000	335.450	11.04.2001
2001-2002	5007	345.935	02.10.2001	0.000	335.440	27.04.2002
2002-2003	2918	343.850	07.09.2002	0.000		01.05.2003
2003-2004	1882	340.922	20.07.2003	0.000		06.02.2004
2004-2005	207.0	337.415	07.10.2004	0.000		21.01.2005
2005-2006	8576	350.920	28.07.2005	0.000		11.02.2006
2006-2007	12535	354.200	07.08.2006	0.000	335.530	29.03.2007
2007-2008	2362	341.670	23.09.2007	0.000		14.02.2008
2008-2009	4106	344.110	23.09.2008	0.000		25.01.2009
2009-2010	1582	340.210	26.08.2009	0.000		25.01.2010
2010-2011	2917	342.490	14.08.2010	0.000	335.410	08.02.2011
2011-2012	1781	340.940	27.08.2011	0.000		26.01.2012
2012-2013	665.3	338.790	05.09.2012	0.000	334.870	05.11.2012
2013-2014	1603	341.545	20.09.2013	0.000	335.000	16.03.2014
2014-2015	218.3	336.370	08.09.2014	0.000	334.300	21.01.2015
2015-2016	0.000	334.610	23.09.2015	0.000	334.300	14.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000	335.900	0.000	338.600	0.000	338.950	0.000	340.555	1619	339.620	0.000
2		0.000	335.800	0.000	338.380	0.000	338.980	0.000	338.270	670.9 *	339.620	0.000
3		0.000	335.950	0.000	338.580	0.000	339.000	0.000	341.890	2317	339.640	0.000
4		0.000	336.000	0.000	338.830	894.5	339.010	0.000	340.070	1410	339.640	0.000
5		0.000	336.150	0.000	338.550	0.000	339.030	0.000	340.110	1403	339.610	0.000
6		0.000	336.250	0.000	338.680	0.000	339.040	0.000	339.650	0.000	339.600	0.000
7		0.000	336.250	0.000	338.620	0.000	339.040	0.000	339.935	1350	339.590	0.000
8		0.000	336.250	0.000	338.740	0.000	339.030	0.000	340.050	1464	339.600	0.000
9		0.000	336.250	0.000	338.860	0.000	339.010	0.000	341.680	2318 *	339.590	0.000
10		0.000	336.250	0.000	338.760	0.000	339.000	0.000	339.430	1184	339.590	0.000
11		0.000	336.300	0.000	338.760	0.000	339.000	0.000	339.300	1045 *	339.590	0.000
12		0.000	336.550	0.000	338.820	0.000	338.990	0.000	339.460	1113 *	339.570	0.000
13		0.000	336.780	0.000	338.810	0.000	339.000	0.000	339.410	0.000	339.570	0.000
14		0.000	337.000	0.000	338.740	0.000	339.575	1218	340.000	1401	339.560	0.000
15		0.000	337.100	0.000	338.820	0.000	336.650	0.000	339.500	0.000	339.550	0.000
16		0.000	337.180	0.000	338.820	0.000	339.720	1320	339.520	0.000	339.550	0.000
17		0.000	337.240	0.000	338.910	0.000	342.245	2703	339.590	0.000	339.530	0.000
18		0.000	337.300	0.000	338.940	0.000	339.220	0.000	339.400	0.000	339.510	0.000
19		0.000	337.770	0.000	338.960	0.000	338.880	0.000	339.520	0.000	339.500	0.000
20		0.000	338.050	0.000	338.980	0.000	339.415	1179	339.560	0.000	339.510	0.000
21		0.000	338.140	0.000	339.000	0.000	339.340	1115	339.600	0.000	339.520	0.000
22		0.000	338.550	0.000	339.010	0.000	339.730	1296	339.710	0.000	339.520	0.000
23		0.000	338.650	995.3	339.010	0.000	340.160	1438	339.810	0.000	339.530	0.000
24		0.000	338.370	703.0 *	339.010	0.000	343.180	2815	339.800	0.000	339.530	0.000
25		0.000	338.535	739.5	339.020	0.000	339.650	1196 *	339.730	0.000	339.520	0.000
26		0.000	338.800	1080	339.010	0.000	346.050	6189	339.780	0.000	339.520	0.000
27		0.000	338.925	861.2	339.010	0.000	341.905	2544	339.820	0.000	339.510	0.000
28		0.000	338.700	882.8	339.010	0.000	339.745	1315	339.860	0.000	339.520	0.000
29		0.000	338.945	1088	339.010	0.000	340.355	1538	340.070	1322	339.500	0.000
30	337.000	262.1	338.740	0.000	338.990	0.000	339.930	1304	340.100	0.000	339.460	0.000
31			338.880	0.000	338.980	0.000			339.470	0.000		
Ten-Daily Mean												
I Ten-Daily		0.000	336.105	0.000	338.660	89.45	339.009	0.000	340.164	1374	339.610	0.000
II Ten-Daily		0.000	337.127	0.000	338.856	0.000	339.269	642.0	339.526	355.9	339.544	0.000
III Ten-Daily	337.000	26.21	338.658	577.2	339.005	0.000	341.004	2075	339.795	120.2	339.513	0.000
Monthly												
Min.	337.000	0.000	335.800	0.000	338.380	0.000	336.650	0.000	338.270	0.000	339.460	0.000
Max.	337.000	262.1	338.945	1088	339.020	894.5	346.050	6189	341.890	2318	339.640	0.000
Mean	337.000	8.737	337.340	204.8	338.846	28.85	339.761	905.6	339.827	600.6	339.556	0

Annual Runoff in MCM = 4604 Annual Runoff in mm = 86

Peak Observed Discharge = 6189 cumecs on 26-09-2016 Corres. Water Level :346.05 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	339.460	0.000	339.180	0.000	338.720	0.000	337.200	0.000	336.600	0.000	335.590	0.000
2	339.400	0.000	339.180	0.000	338.690	0.000	337.180	0.000	336.500	0.000	335.590	0.000
3	339.350	0.000	339.160	0.000	338.680	0.000	337.160	0.000	336.480	0.000	335.580	0.000
4	339.340	0.000	339.140	0.000	338.660	0.000	337.140	0.000	336.470	0.000	335.560	0.000
5	339.330	0.000	339.120	0.000	338.660	0.000	337.140	0.000	336.460	0.000	335.500	0.000
6	339.320	0.000	339.100	0.000	338.650	0.000	337.130	0.000	336.420	0.000	335.480	0.000
7	339.310	0.000	339.080	0.000	338.640	0.000	337.100	0.000	336.410	0.000	335.450	0.000
8	339.310	0.000	339.080	0.000	338.630	0.000	336.990	0.000	336.400	0.000	335.430	0.000
9	339.310	0.000	339.030	0.000	338.600	0.000	336.950	0.000	336.390	0.000	335.410	0.000
10	339.310	0.000	339.000	0.000	338.590	0.000	336.930	0.000	336.390	0.000	335.310	0.000
11	339.400	0.000	339.000	0.000	338.580	0.000	336.900	0.000	336.380	0.000	335.330	0.000
12	339.400	0.000	338.990	0.000	338.570	0.000	336.880	0.000	336.320	0.000	335.250	0.000
13	339.390	0.000	338.980	0.000	338.500	0.000	336.870	0.000	336.260	0.000	335.220	0.000
14	339.380	0.000	338.980	0.000	338.460	0.000	336.850	0.000	336.170	0.000	335.200	0.000
15	339.380	0.000	338.940	0.000	338.450	0.000	336.850	0.000	336.110	0.000	335.200	0.000
16	339.370	0.000	338.930	0.000	338.420	0.000	336.840	0.000	336.020	0.000	335.200	0.000
17	339.400	0.000	338.930	0.000	338.410	0.000	336.830	0.000	335.960	0.000	335.180	0.000
18	339.400	0.000	338.920	0.000	338.350	0.000	336.830	0.000	335.930	0.000	335.180	0.000
19	339.400	0.000	338.880	0.000	338.330	0.000	336.830	0.000	335.910	0.000	335.070	0.000
20	339.400	0.000	338.860	0.000	338.310	0.000	336.830	0.000	335.900	0.000	335.050	0.000
21	339.400	0.000	338.850	0.000	338.300	0.000	336.810	0.000	335.860	0.000	335.040	0.000
22	339.200	0.000	338.830	0.000	338.280	0.000	336.800	0.000	335.760	0.000	335.030	0.000
23	339.200	0.000	338.820	0.000	338.270	0.000	336.800	0.000	335.750	0.000	335.020	0.000
24	339.200	0.000	338.800	0.000	338.260	0.000	336.790	0.000	335.750	0.000	335.010	0.000
25	339.160	0.000	338.790	0.000	338.250	0.000	336.780	0.000	335.740	0.000	335.000	0.000
26	339.180	0.000	338.790	0.000	338.200	0.000	336.780	0.000	335.740	0.000	335.030	0.000
27	339.170	0.000	338.780	0.000	338.140	0.000	336.770	0.000	335.680	0.000	335.000	0.000
28	339.200	0.000	338.750	0.000	337.300	0.000	336.770	0.000	335.640	0.000	335.000	0.000
29	339.200	0.000	338.740	0.000			336.760	0.000	335.630	0.000	335.000	0.000
30	339.180	0.000	338.730	0.000			336.760	0.000	335.600	0.000	334.990	0.000
31	339.180	0.000	338.730	0.000			336.750	0.000			334.980	0.000
Ten-Daily M												
I Ten-Daily	339.344	0.000	339.107	0.000	338.652	0.000	337.092	0.000	336.452	0.000	335.490	0.000
II Ten-Daily	339.392	0.000	338.941	0.000	338.438	0.000	336.851	0.000	336.096	0.000	335.188	0.000
III Ten-Daily	339.206	0.000	338.783	0.000	338.125	0.000	336.779	0.000	335.715	0.000	335.009	0.000
Monthly												
Min.	339.160	0.000	338.730	0.000	337.300	0.000	336.750	0.000	335.600	0.000	334.980	0.000
Max.	339.460	0.000	339.180	0.000	338.720	0.000	337.200	0.000	336.600	0.000	335.590	0.000
Mean	339.311	0	338.938	0	338.425	0	336.903	0	336.088	0	335.222	0

Peak Computed Discharge = 2318 cumecs on 09-10-2016 Corres. Water Level :341.68 m

Lowest Computed Discharge = 670.9 cumecs on 02-10-2016 Corres. Water Level :338.27 m

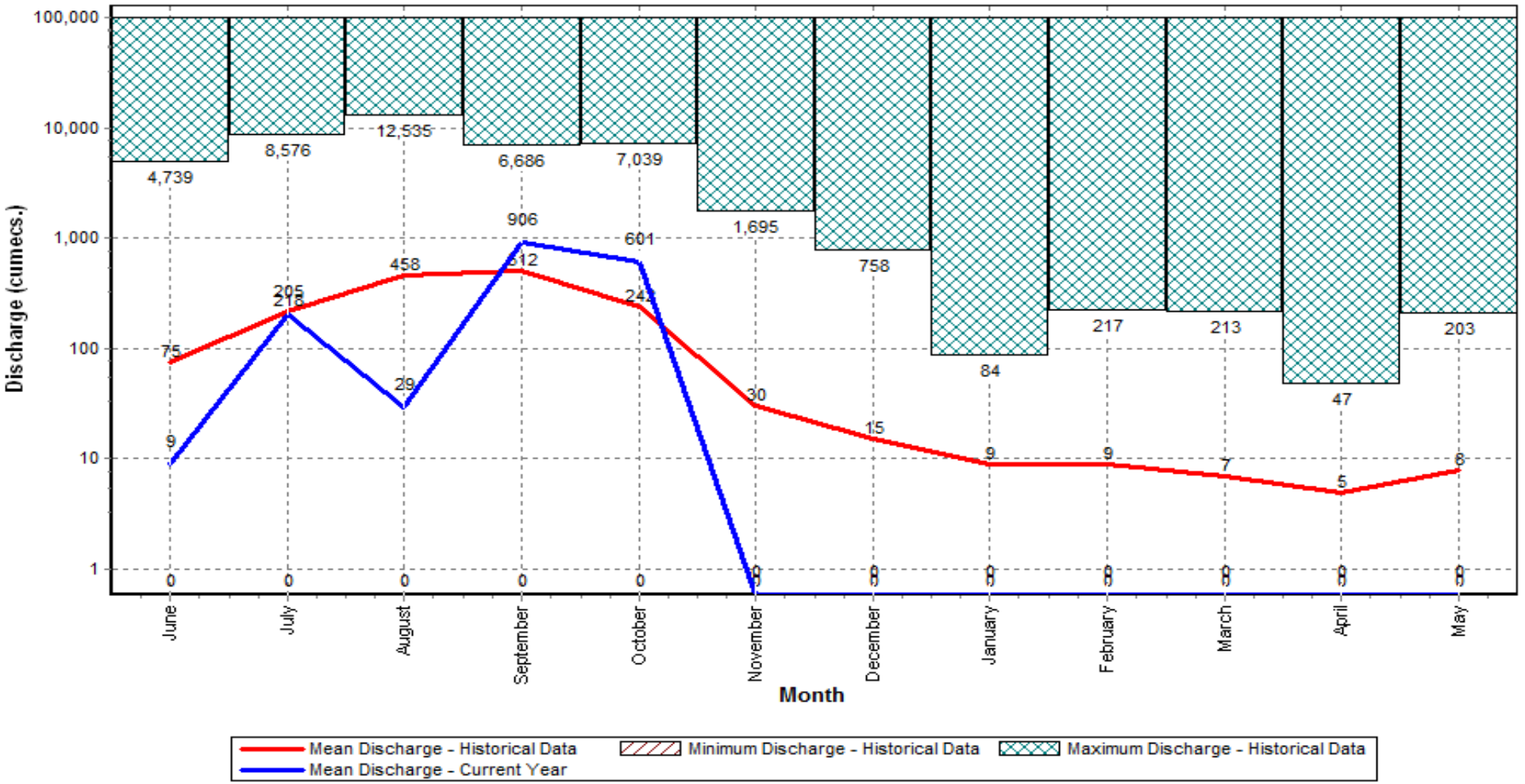
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Yelli (AG000P3) | **Data considered : 1978-2017** | **Division : U Godavari Div., Hyderabad**

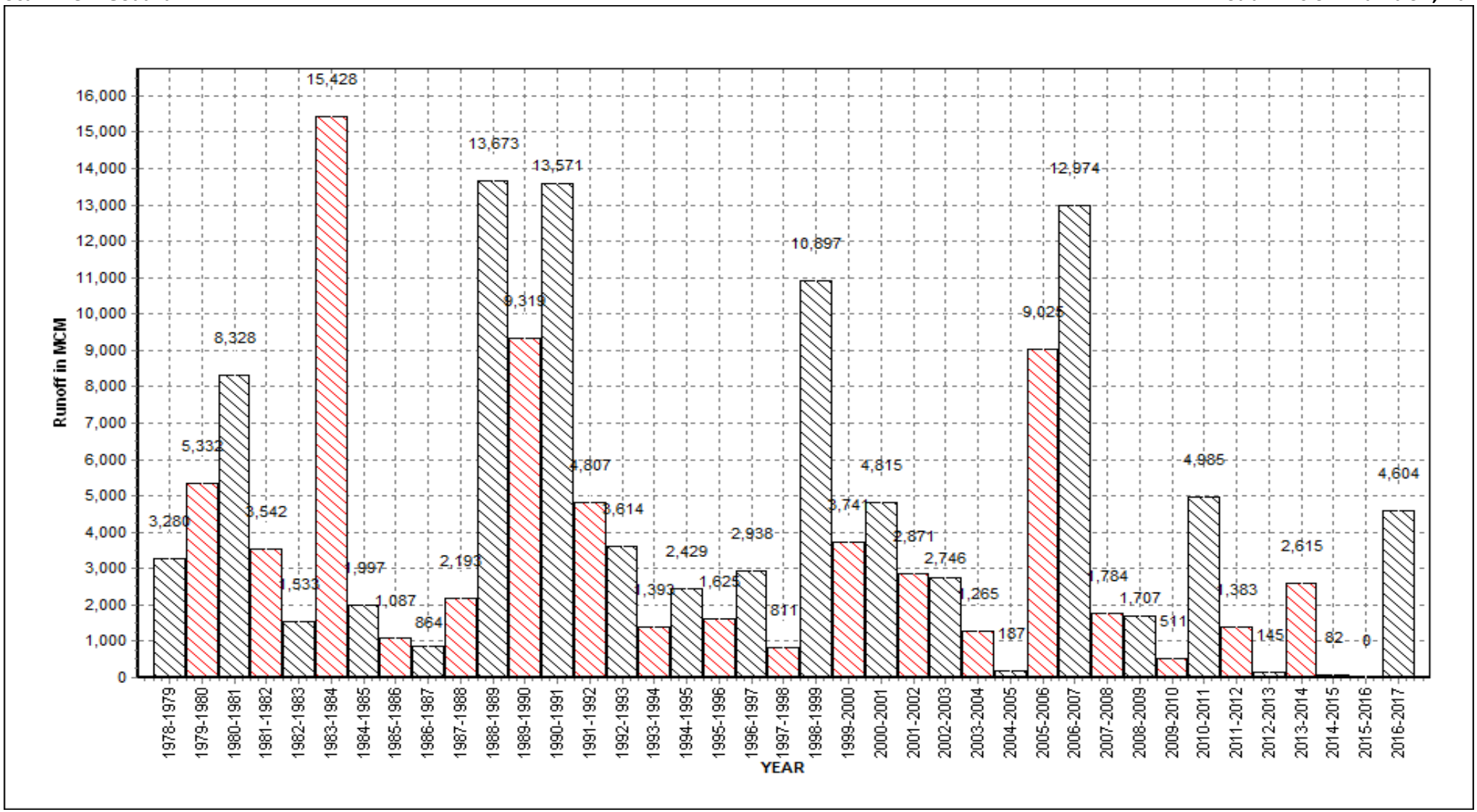
Local River : Godavari | **Sub-Division : Purna SD, Nanded**



Annual Runoff Values for the period: 1978 - 2017

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

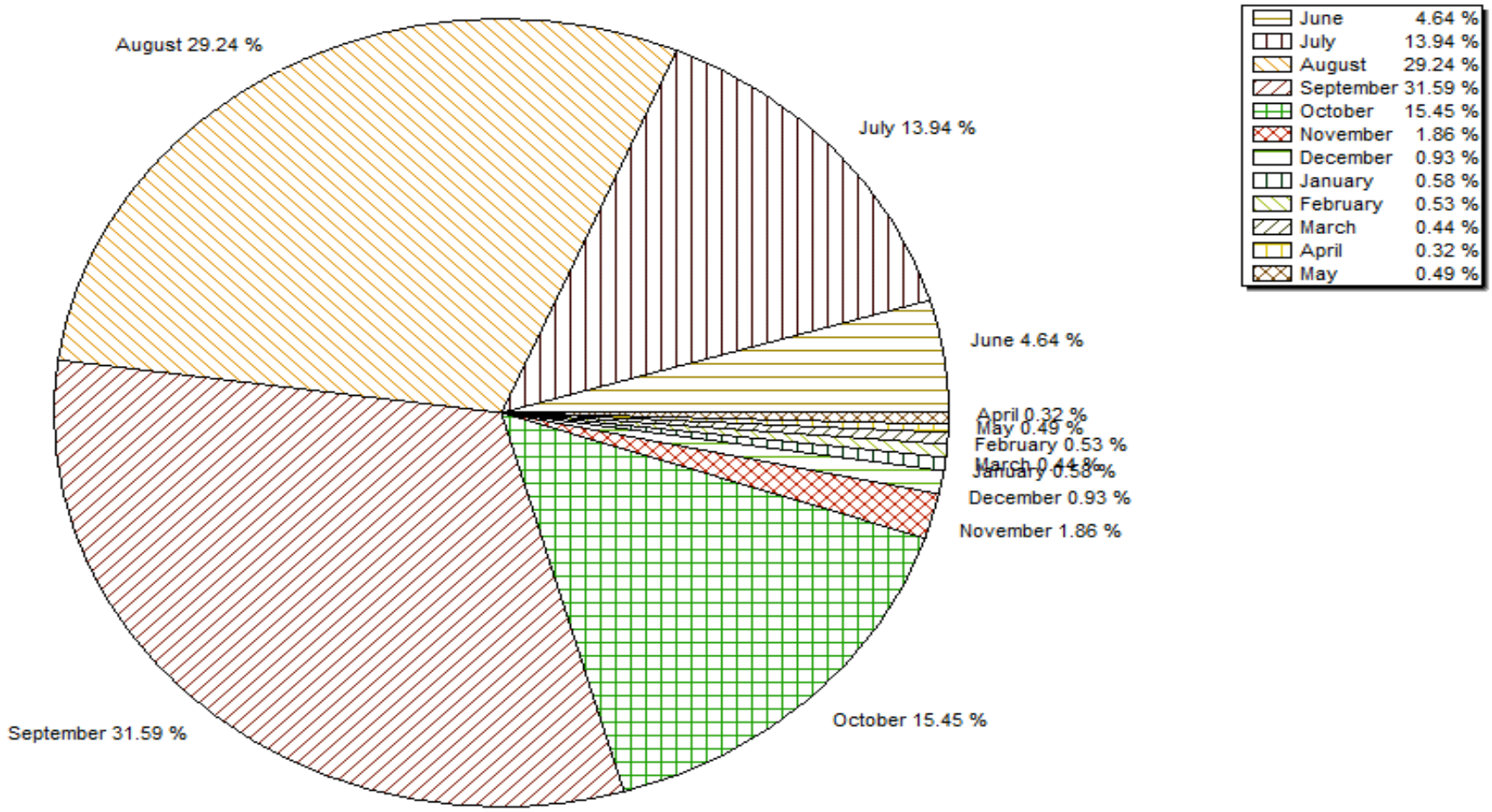


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 1978-2016

Station Name : Yelli (AG000P3)
Local River : Godavari

Division : U Godavari Div., Hyderabad
Sub-Division : Purna SD, Nanded



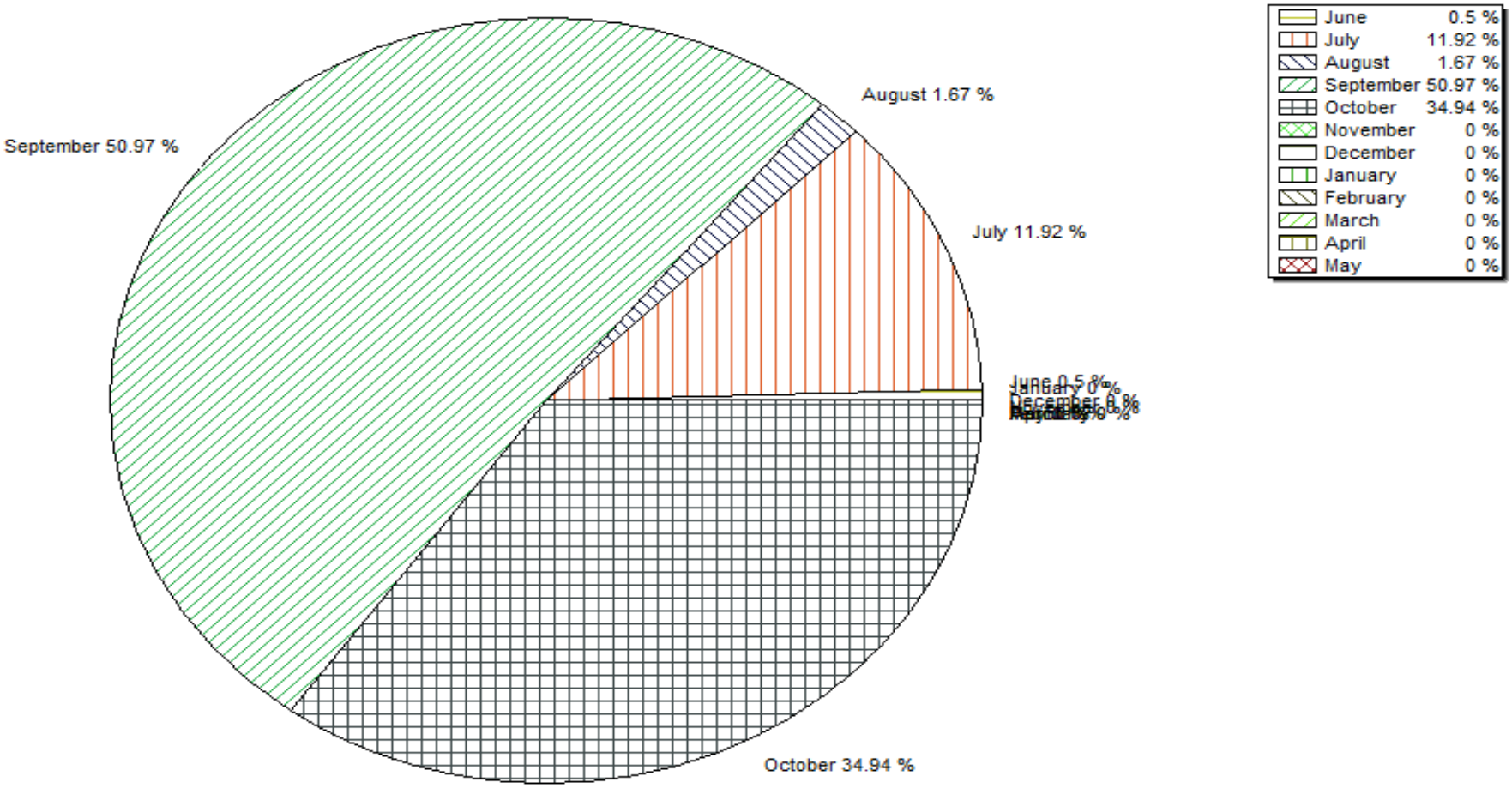
Monthly Runoff for the Year : 2016-2017

Station Name : Yelli (AG000P3)

Local River : Godavari

Division : U Godavari Div., Hyderabad

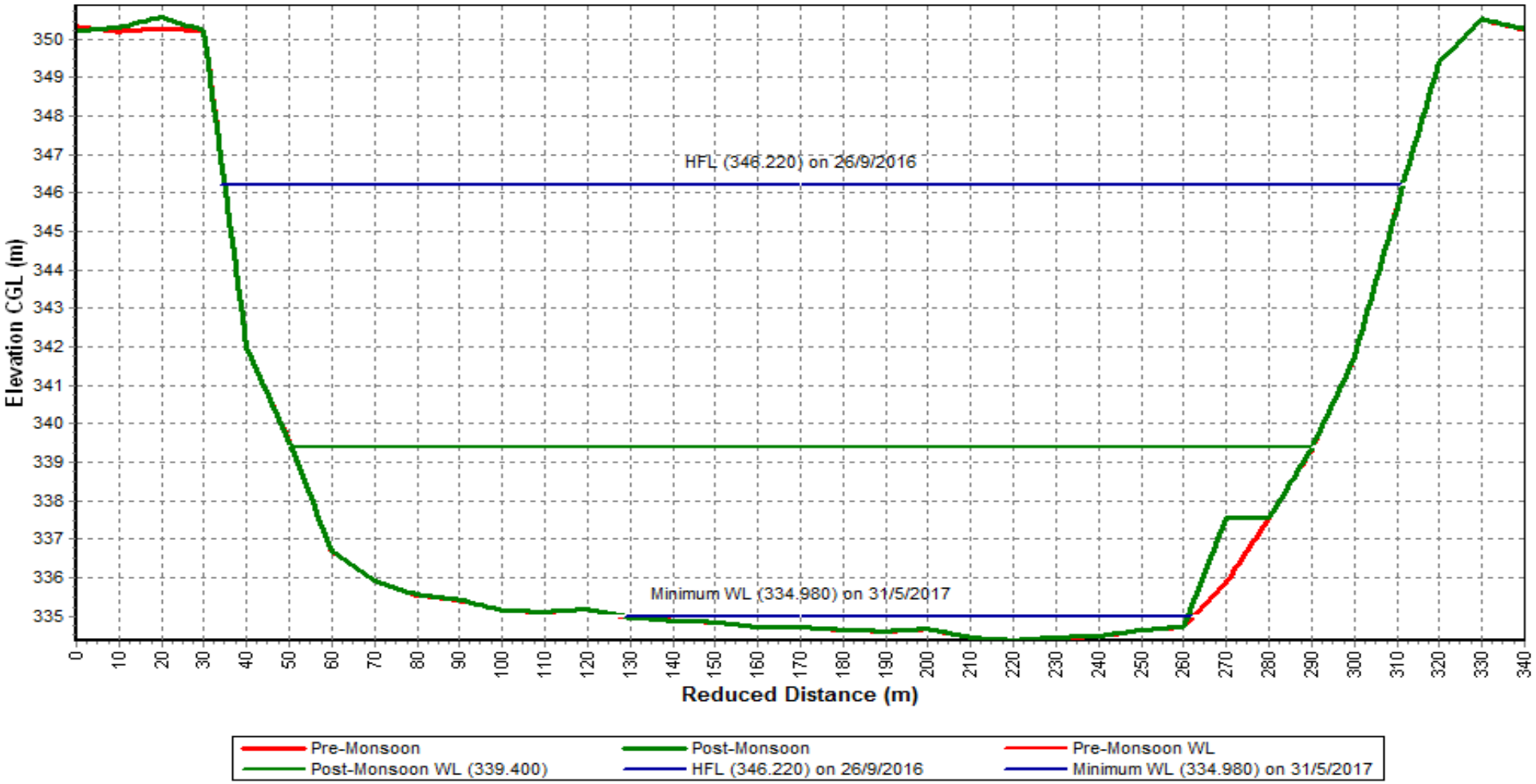
Sub-Division : Purna SD, Nanded



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

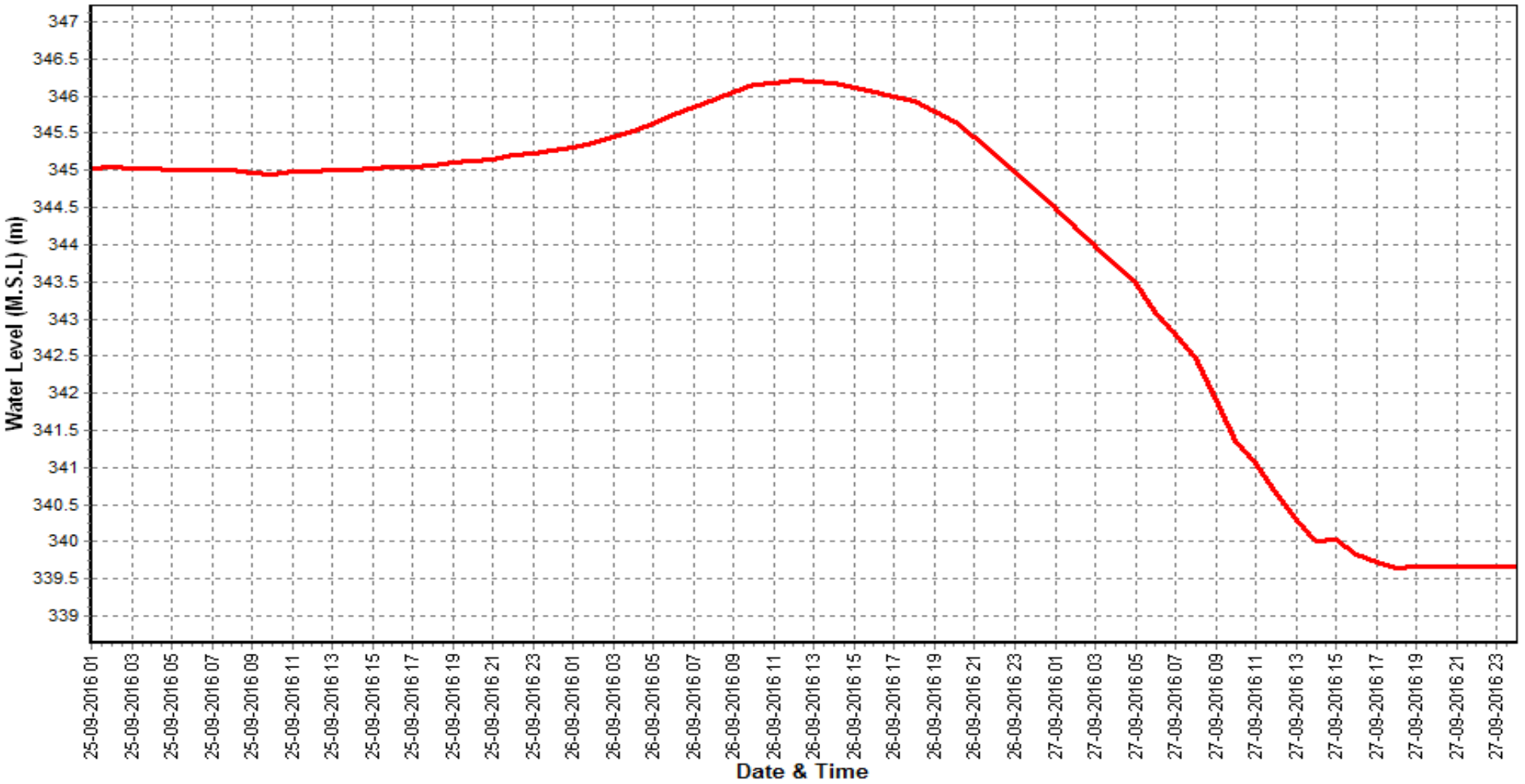
Local River : Godavari **Sub-Division : Purna SD, Nanded**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

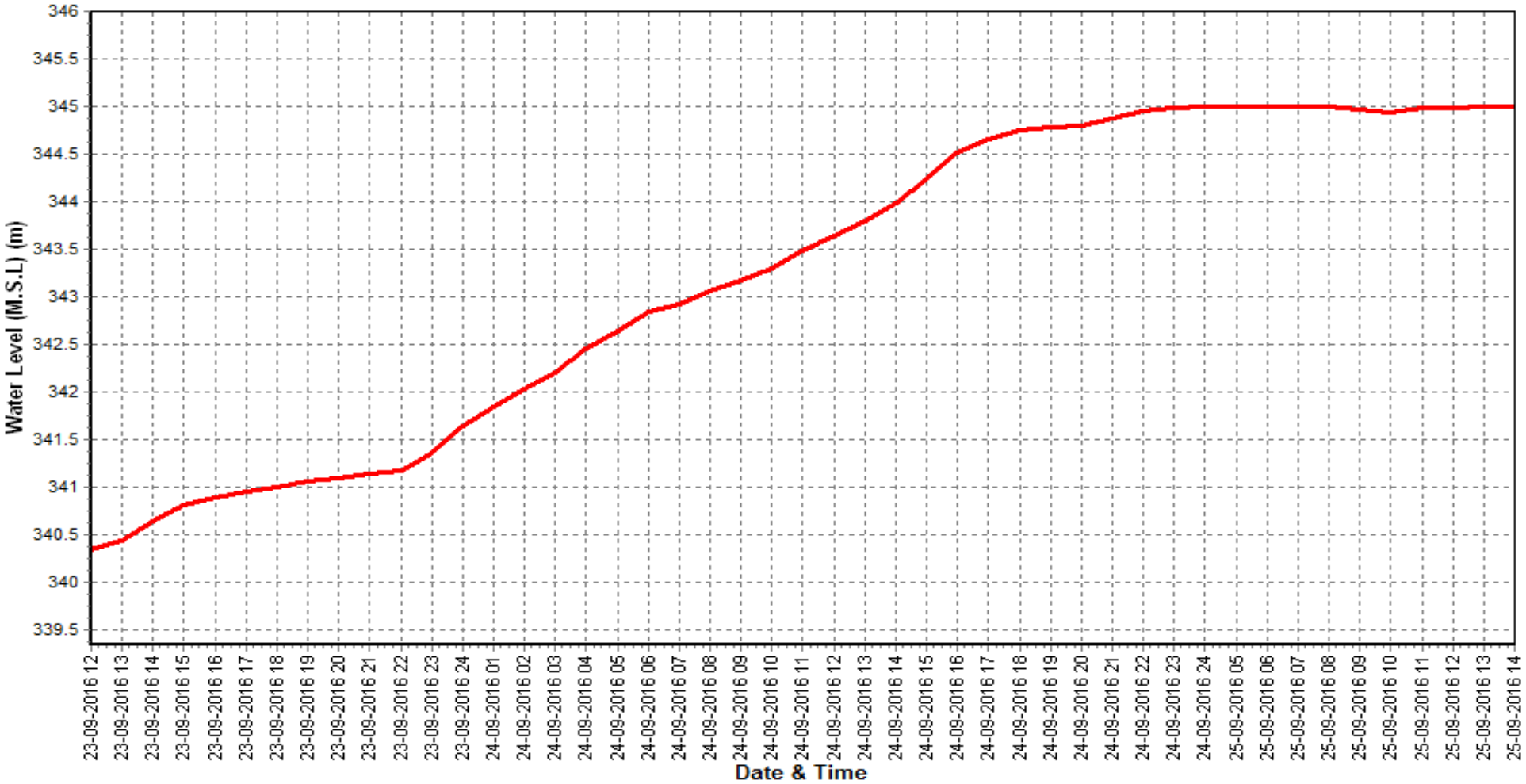


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

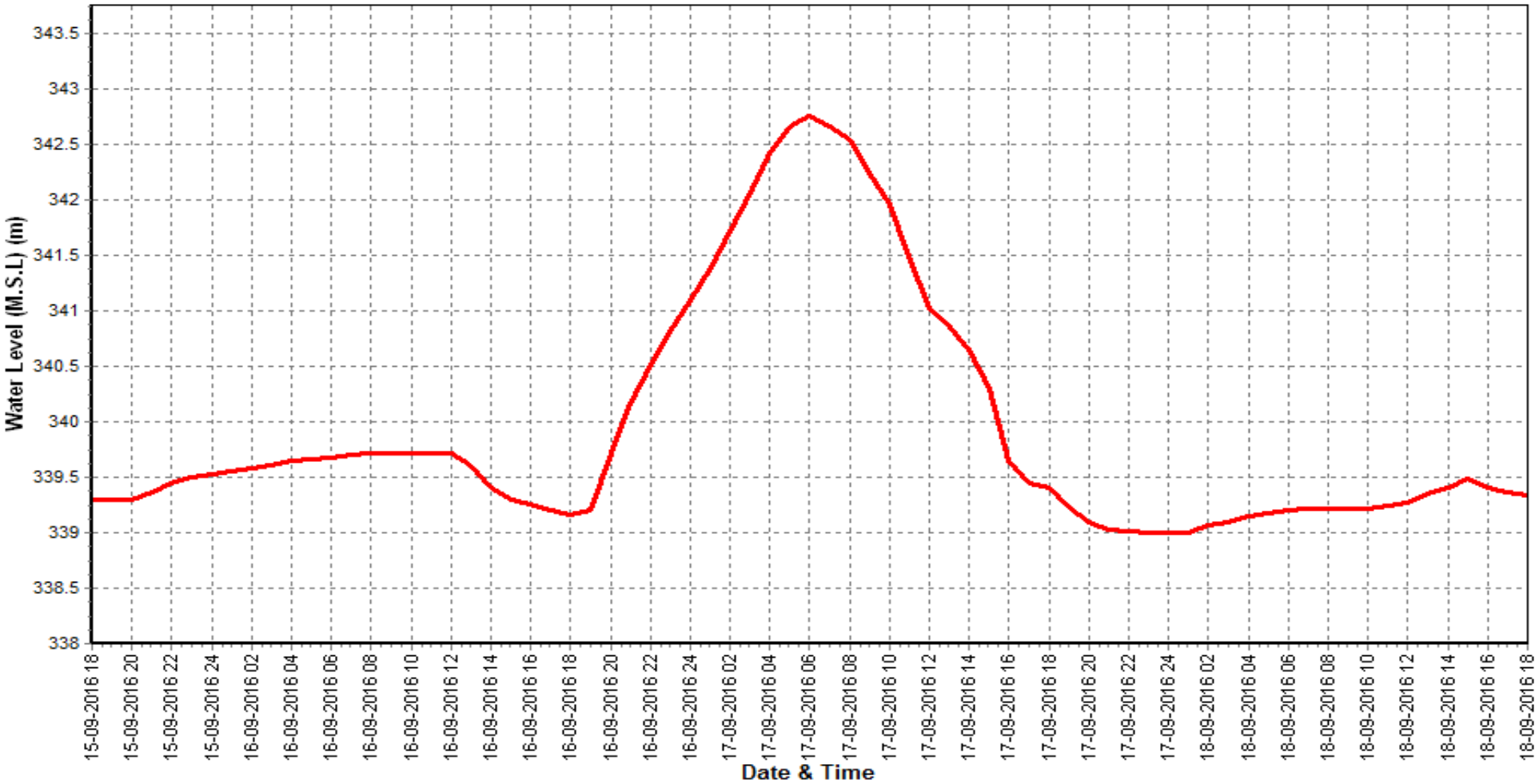


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Yelli (AG000P3) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Purna**	**Code**	**:**	**AGR00A5**
State	:	Maharashtra	District		Parbhani
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	Purna	Sub Tributary	:	---
Sub-Sub Tributary	:	---	Local River	:	Purna
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Purna SD, Nanded
Drainage Area	:	15000 Sq. Km.	Bank	:	Left
Latitude	:	19°11'00"	Longitude	:	77°02'00"
Zero of Gauge (m)	:	358 (m.s.l) 358 (m.s.l)	23.06.1968 01.06.2015	-	31.05.2015
		Opening Date	Closing Date		
Gauge	:	23.06.1968	**HFL During 2016-17**	**:**	**363.85**
			Corres.Discharge	**:**	**1207.742 Cumecs(Estimated)**
Discharge	:	02.09.1969	**Date& Time of**	**:**	**26.09.2016**
			Occurance	**:**	**01:00**
Sediment	:	10.10.1972			
Water Quality	:	01.11.1972			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1969-1970	5037	369.610	04.09.1969	0.424	358.500	23.04.1970
1970-1971	2655	365.515	17.08.1970	1.272	358.480	13.04.1971
1971-1972	4133	368.165	26.08.1971	1.000	358.460	01.04.1972
1972-1973	441.7	361.240	28.06.1972	0.000		20.04.1973
1973-1974	4738	368.880	22.08.1973	0.000		02.06.1973
1974-1975	620.6	361.195	05.08.1974	0.300	358.330	28.04.1975
1975-1976	6113	371.610	05.09.1975	1.605	358.470	08.06.1975
1976-1977	2887	365.635	31.08.1976	0.855	358.415	06.04.1977
1977-1978	2329	364.930	02.09.1977	2.100	358.540	06.06.1977
1978-1979	645.1	361.628	25.07.1978	0.728	358.390	20.05.1979
1979-1980	1750	364.570	26.09.1979	1.500	358.440	19.04.1980
1980-1981	4125	367.500	18.08.1980	1.500	358.440	11.03.1981
1981-1982	507.2	361.230	11.09.1981	0.918	358.520	11.04.1982
1982-1983	637.0	361.608	11.07.1982	0.000	358.390	13.05.1983
1983-1984	4358	367.570	13.08.1983	0.000	358.300	12.06.1983
1984-1985	677.0	361.575	10.10.1984	0.100	358.500	25.04.1985
1985-1986	320.6	360.710	07.10.1985	0.000		24.04.1986
1986-1987	707.3	361.980	18.07.1986	0.000		20.05.1987
1987-1988	1734	364.270	06.10.1987	0.000		02.06.1987
1988-1989	5776	368.740	21.09.1988	1.530	358.780	16.06.1988
1989-1990	6133	369.540	24.07.1989	0.930	358.480	06.03.1990

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1990-1991	3625	367.030	30.08.1990	1.121	358.615	15.03.1991
1991-1992	1903	363.800	11.07.1991	0.272	358.230	07.05.1992
1992-1993	5543	367.770	20.06.1992	0.174	358.310	12.06.1992
1993-1994	469.2	361.100	02.09.1993	0.000	358.120	13.02.1994
1994-1995	433.9	361.070	25.08.1994	0.000	358.190	06.02.1995
1995-1996	786.7	361.580	02.09.1995	0.000		26.01.1996
1996-1997	911.4	361.975	29.08.1996	0.000		12.01.1997
1997-1998	428.3	361.000	23.09.1997	0.000		02.04.1998
1998-1999	4376	366.825	30.07.1998	0.000		10.06.1998
1999-2000	1229	362.400	13.09.1999	0.000		07.02.2000
2000-2001	4972	367.235	28.08.2000	0.000		31.03.2001
2001-2002	4479	366.800	02.10.2001	0.000		25.01.2002
2002-2003	2456	364.400	06.09.2002	0.000		11.06.2002
2003-2004	842.5	361.650	20.07.2003	0.000		14.01.2004
2004-2005	519.9	360.800	11.09.2004	0.000		25.01.2005
2005-2006	10811	371.800	27.07.2005	0.000		27.11.2005
2006-2007	10463	371.600	07.08.2006	0.000		10.12.2006
2007-2008	268.7	360.485	21.09.2007	0.000	358.080	09.11.2007
2008-2009	641.3	361.760	22.09.2008	0.000	358.120	25.01.2009
2009-2010	466.5	361.260	26.08.2009	0.000	358.020	25.01.2010
2010-2011	1577	364.760	09.09.2010	0.000		30.06.2010
2011-2012	617.4	361.830	14.07.2011	0.000		09.01.2012
2012-2013	912.8	363.000	04.09.2012	0.000		22.11.2012
2013-2014	1475	363.780	24.07.2013	0.000	358.080	13.05.2014
2014-2015	470.3	360.990	01.09.2014	0.000	358.000	26.01.2015
2015-2016	203.9	360.348	19.09.2015	0.000	358.000	11.12.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000	359.710	94.65 *	360.100	146.7 *	359.160	41.01	359.020	36.25	358.130	0.000
2		0.000	358.700	14.82	359.265	57.99	358.960	38.63	361.300	375.9 *	358.120	0.000
3		0.000	358.670	9.404 *	359.000	36.75	359.075	34.40	360.460	204.6 *	358.120	0.000
4		0.000	358.530	7.094	359.030	33.73	358.830	17.44 *	360.130	151.2 *	358.100	0.000
5		0.000	358.520	7.070	358.880	34.83	358.680	9.852 *	359.530	74.31 *	358.090	0.000
6		0.000	358.830	17.44 *	358.675	14.78	358.600	11.27	359.640	86.47 *	358.080	0.000
7		0.000	358.640	10.10	358.720	11.72 *	358.535	10.67	359.070	41.22	358.070	0.000
8		0.000	358.550	7.029	358.670	9.248	358.445	7.592	358.870	19.59	358.060	0.000
9		0.000	358.420	5.149	358.640	9.975	358.340	7.225	362.300	646.2 *	358.060	0.000
10		0.000	359.070	32.96 *	358.600	8.813	358.260	3.530	359.230	43.55	358.050	0.000
11		0.000	359.205	43.05	358.560	8.979	358.170	0.000	358.980	26.65 *		0.000
12		0.000	361.000	308.8 *	358.540	8.532	358.100	0.000	359.330	54.46 *		0.000
13		0.000	359.200	42.57	358.510	7.710	358.040	0.000	358.880	20.76		0.000
14		0.000	358.840	14.37	358.490	6.847 *	358.380	7.336	358.800	19.33		0.000
15		0.000	358.645	10.31	358.470	6.847 *	358.340	7.203	358.730	15.73		0.000
16		0.000	358.520	6.728	358.430	6.846	360.650	238.9 *	358.670	15.65 *		0.000
17		0.000	358.450	4.954 *	358.380	6.622	360.400	194.3 *	358.760	15.65		0.000
18		0.000	358.370	4.952	358.360	5.799	359.360	57.25 *	358.690	9.163		0.000
19		0.000	358.335	4.815	358.330	5.681	358.980	37.54	358.665	8.823		0.000
20		0.000	358.550	7.970	358.270	4.410	358.800	20.58	358.610	8.088		0.000
21		0.000	358.440	6.471	358.240	3.186 *	358.870	23.26	358.580	7.476		0.000
22		0.000	358.380	5.164	358.220	3.186	360.300	177.7 *	358.515	6.807		0.000
23		0.000	358.320	5.444	358.150	0.000	359.930	122.7 *	358.430	5.207 *		0.000
24		0.000	358.860	19.15 *	358.110	0.000	362.520	715.3 *	358.380	5.207		0.000
25		0.000	359.080	40.51	358.060	0.000	363.290	984.8 *	358.290	3.631		0.000
26		0.000	359.250	47.56	358.040	0.000	363.220	958.6 *	358.250	3.420		0.000
27		0.000	358.890	37.84		0.000	359.550	76.46 *	358.250	2.743		0.000
28		0.000	360.170	157.3 *		0.000	359.550	76.46 *	358.200	0.000		0.000
29		0.000	359.250	59.82	358.810	19.52	359.125	51.82	358.190	0.000		0.000
30	359.250	43.71	360.050	139.5 *	358.510	6.953	358.940	39.73	358.170	0.000		0.000
31			359.400	61.08 *	358.605	7.919			358.160	0.000		
Ten-Daily Mean												
I Ten-Daily		0.000	358.764	20.57	358.958	36.46	358.689	18.16	359.955	167.9	358.088	0.000
II Ten-Daily		0.000	358.911	44.86	358.434	6.827	358.922	56.31	358.811	19.43		0.000
III Ten-Daily	359.250	4.371	359.099	52.70	358.305	3.706	360.530	322.7	358.310	3.136		0.000
Monthly												
Min.	359.250	0.000	358.320	4.815	358.040	0.000	358.040	0.000	358.160	0.000	358.050	0.000
Max.	359.250	43.71	361.000	308.8	360.100	146.7	363.290	984.8	362.300	646.2	358.130	0.000
Mean	359.250	1.457	358.930	39.81	358.575	15.28	359.380	132.4	359.003	61.55	358.088	0

Annual Runoff in MCM = 669 Annual Runoff in mm = 45

Peak Observed Discharge = 61.08 cumecs on 11-05-2017 Corres. Water Level :359.4 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May		
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q	
1		0.000		0.000		0.000		0.000		0.000		0.000	
2		0.000		0.000		0.000		0.000		0.000		0.000	
3		0.000		0.000		0.000		0.000		0.000		0.000	
4		0.000		0.000		0.000		0.000		0.000		0.000	
5		0.000		0.000		0.000		0.000		0.000		0.000	
6		0.000		0.000		0.000		0.000		0.000		0.000	
7		0.000		0.000		0.000		0.000		0.000		0.000	
8		0.000		0.000		0.000		0.000		0.000		0.000	
9		0.000		0.000		0.000		0.000		0.000		0.000	
10		0.000		0.000		0.000		0.000		0.000	358.800	0.000	
11		0.000		0.000		0.000		0.000		0.000	359.400	61.08	#
12		0.000		0.000		0.000		0.000		0.000	358.925	37.76	
13		0.000		0.000		0.000		0.000		0.000	358.325	10.24	
14		0.000		0.000		0.000		0.000		0.000	358.140	0.000	
15		0.000		0.000		0.000		0.000		0.000		0.000	
16		0.000		0.000		0.000		0.000		0.000		0.000	
17		0.000		0.000		0.000		0.000		0.000		0.000	
18		0.000		0.000		0.000		0.000		0.000		0.000	
19		0.000		0.000		0.000		0.000		0.000		0.000	
20		0.000		0.000		0.000		0.000		0.000		0.000	
21		0.000		0.000		0.000		0.000		0.000		0.000	
22		0.000		0.000		0.000		0.000		0.000		0.000	
23		0.000		0.000		0.000		0.000		0.000		0.000	
24		0.000		0.000		0.000		0.000		0.000		0.000	
25		0.000		0.000		0.000		0.000		0.000		0.000	
26		0.000		0.000		0.000		0.000		0.000		0.000	
27		0.000		0.000		0.000		0.000		0.000		0.000	
28		0.000		0.000		0.000		0.000		0.000		0.000	
29		0.000		0.000				0.000		0.000		0.000	
30		0.000		0.000				0.000		0.000		0.000	
31		0.000		0.000				0.000				0.000	
Ten-Daily M													
I Ten-Daily		0.000		0.000		0.000		0.000		0.000	358.800	0.000	
II Ten-Daily		0.000		0.000		0.000		0.000		0.000	358.697	10.91	
III Ten-Daily		0.000		0.000		0.000		0.000		0.000		0.000	
Monthly													
Min.		0.000		0.000		0.000		0.000		0.000	358.140	0.000	
Max.		0.000		0.000		0.000		0.000		0.000	359.400	61.08	
Mean		0		0		0		0		0	358.718	3.519	

Peak Computed Discharge = 984.8 cumecs on 25-09-2016 Corres. Water Level :363.29 m

Lowest Computed Discharge = 3.186 cumecs on 21-08-2016 Corres. Water Level :358.24 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

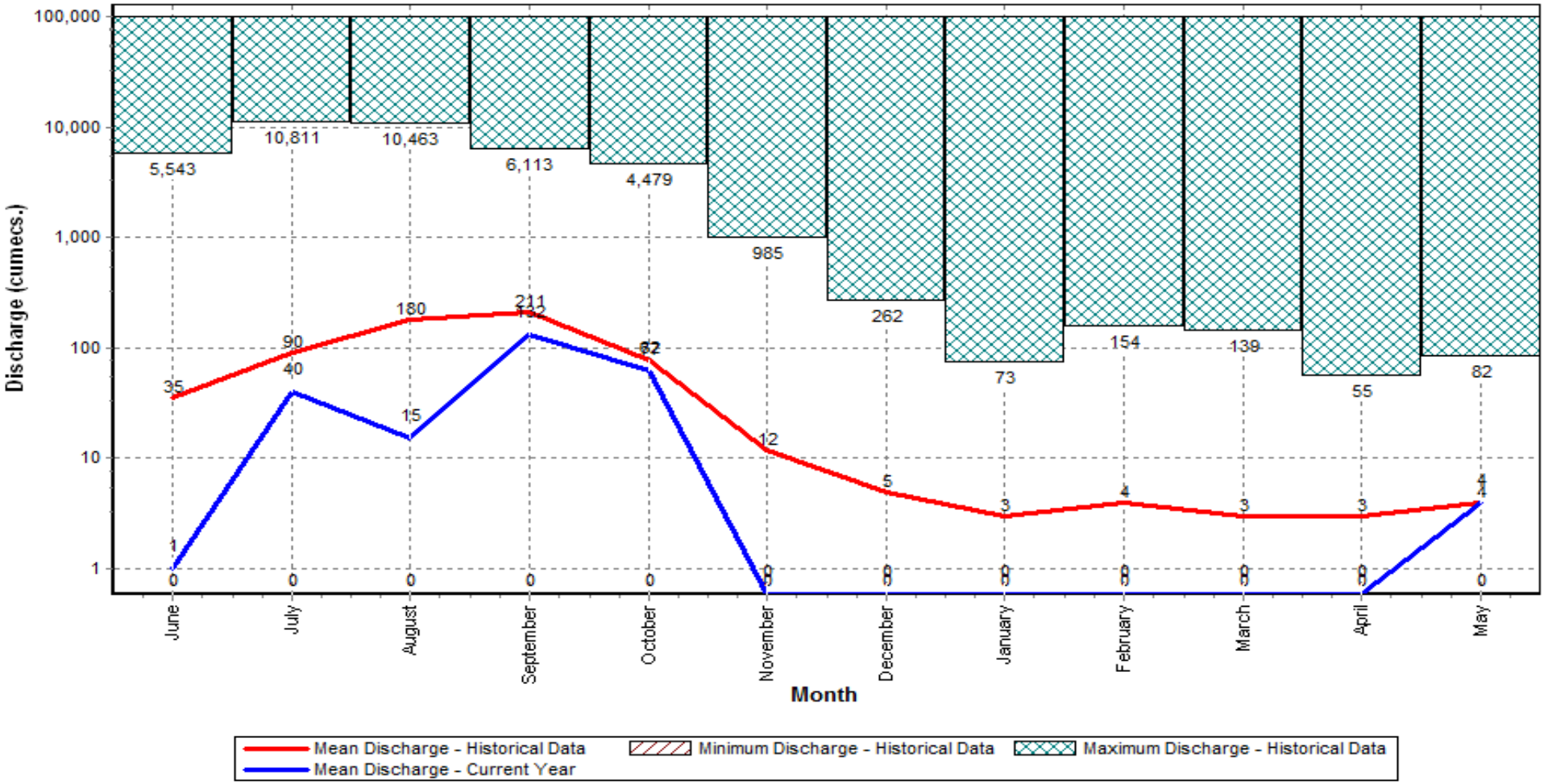
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Purna (AGR00A5) | **Data considered : 1969-2017** | **Division : U Godavari Div., Hyderabad**

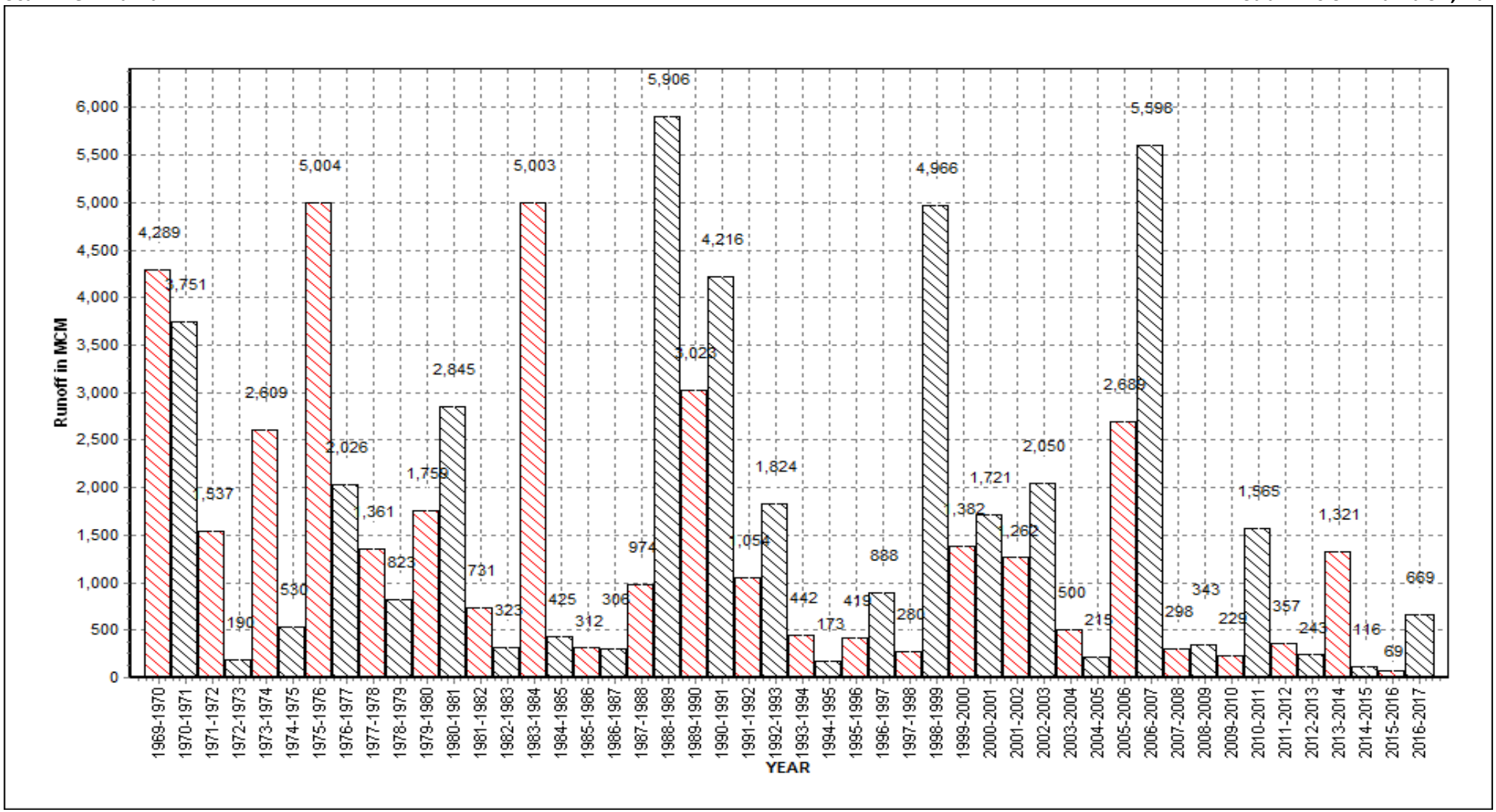
Local River : Purna | **Sub-Division : Purna SD, Nanded**


Discharge (cumecs.)
100,000
10,000
1,000
100
10
1
5,543
10,811
10,463
6,113
4,479
985
262
73
154
139
55
82
35
90
180
211
132
82
12
5
3
4
3
3
4
40
15
1
0
0
0

Annual Runoff Values for the period: 1969 - 2017

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**



Note: Missing values have not been considered while arriving at Annual Runoff

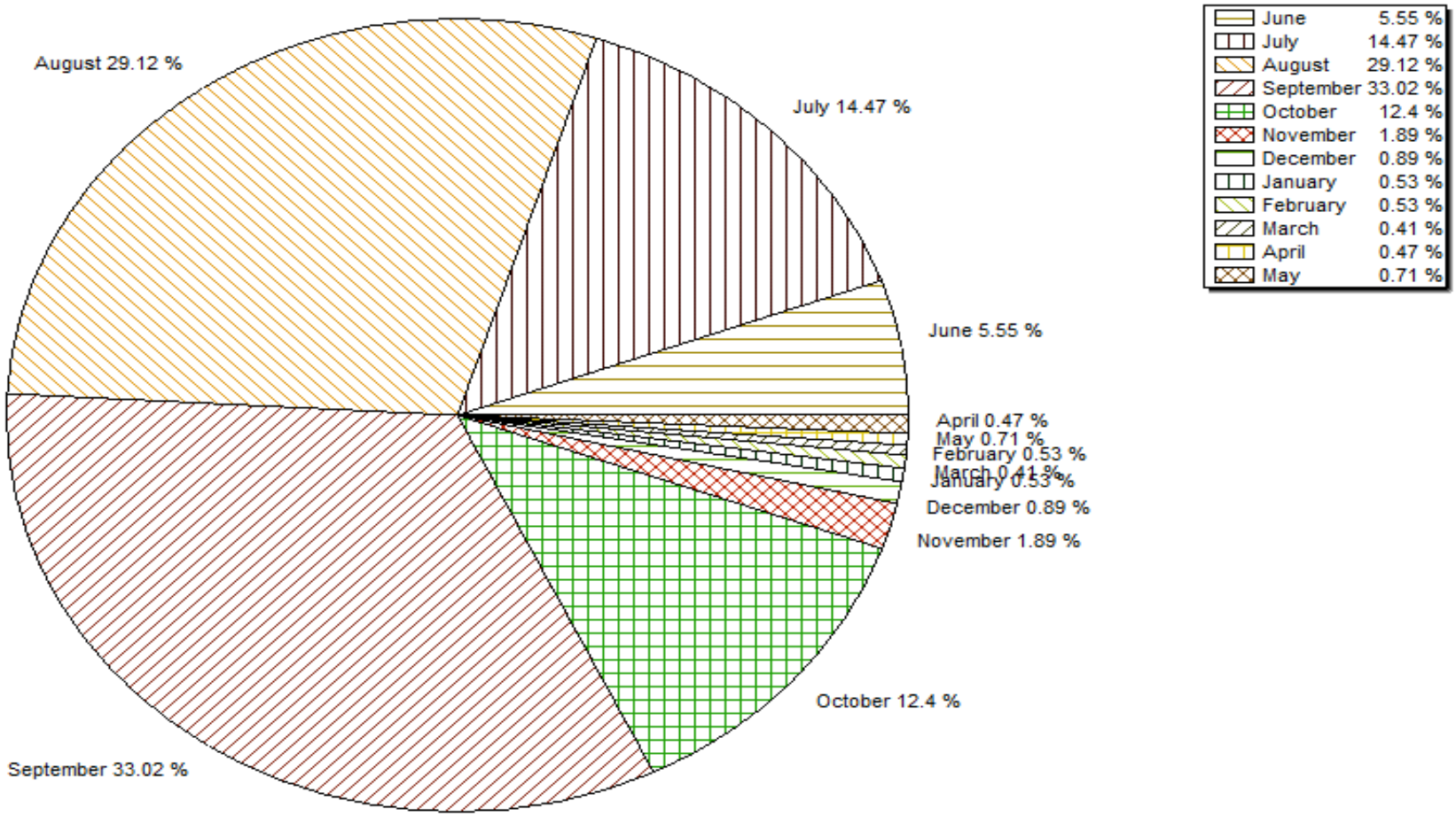
Monthly Average Runoff based on period : 1969-2016

Station Name : Purna (AGR00A5)

Local River : Purna

Division : U Godavari Div., Hyderabad

Sub-Division : Purna SD, Nanded



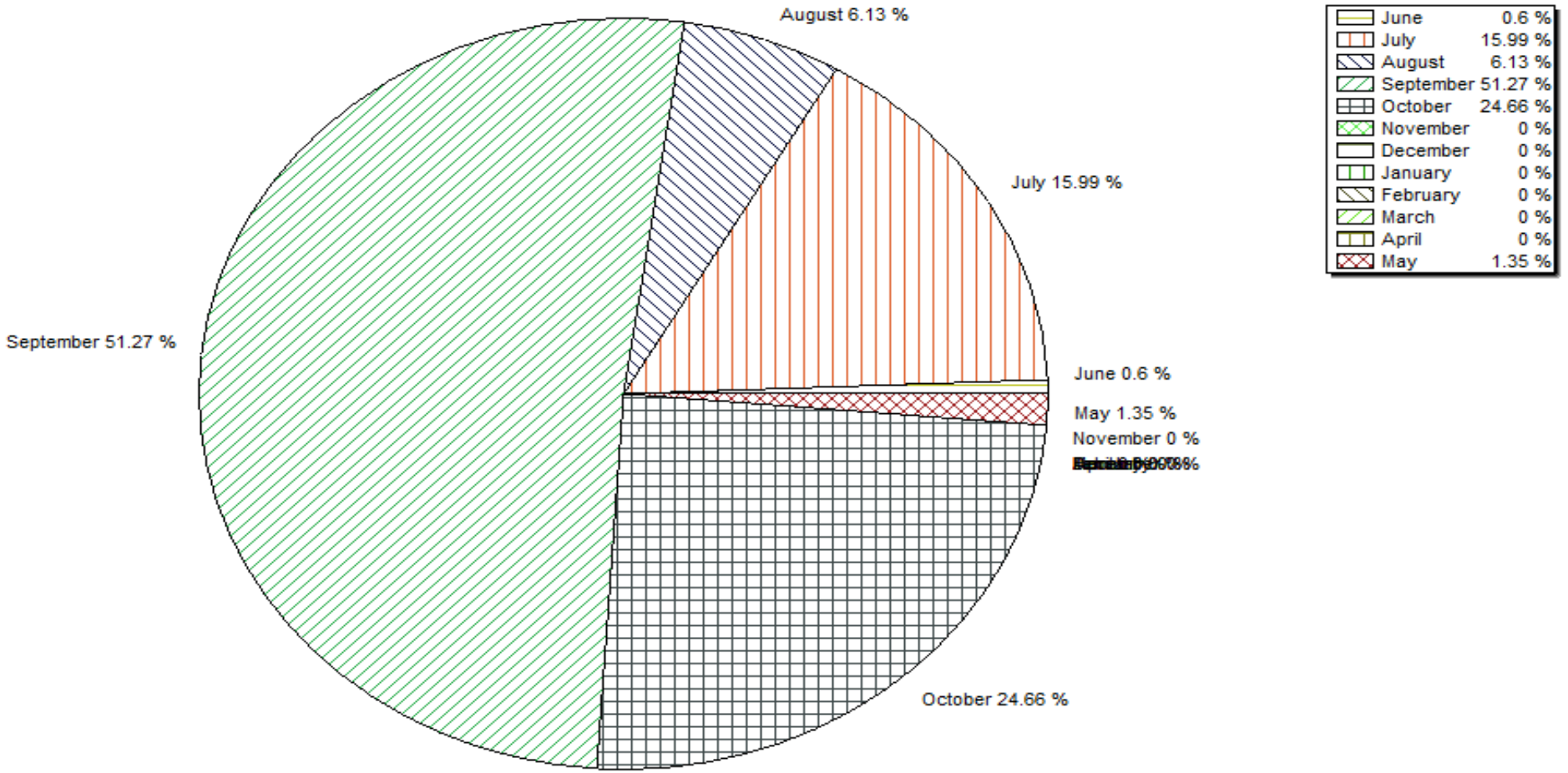
Monthly Runoff for the Year : 2016-2017

Station Name : Purna (AGR00A5)

Local River : Purna

Division : U Godavari Div., Hyderabad

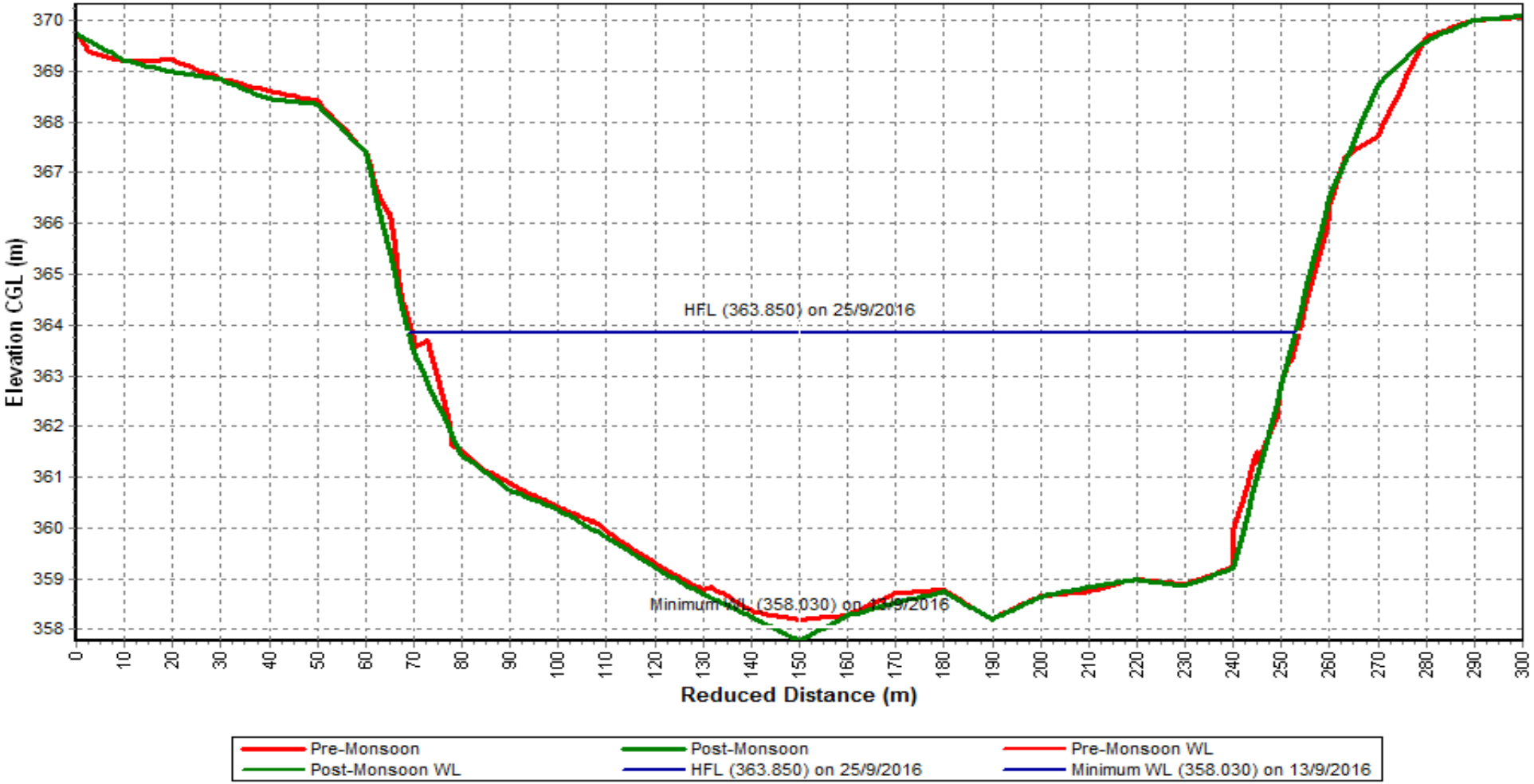
Sub-Division : Purna SD, Nanded



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

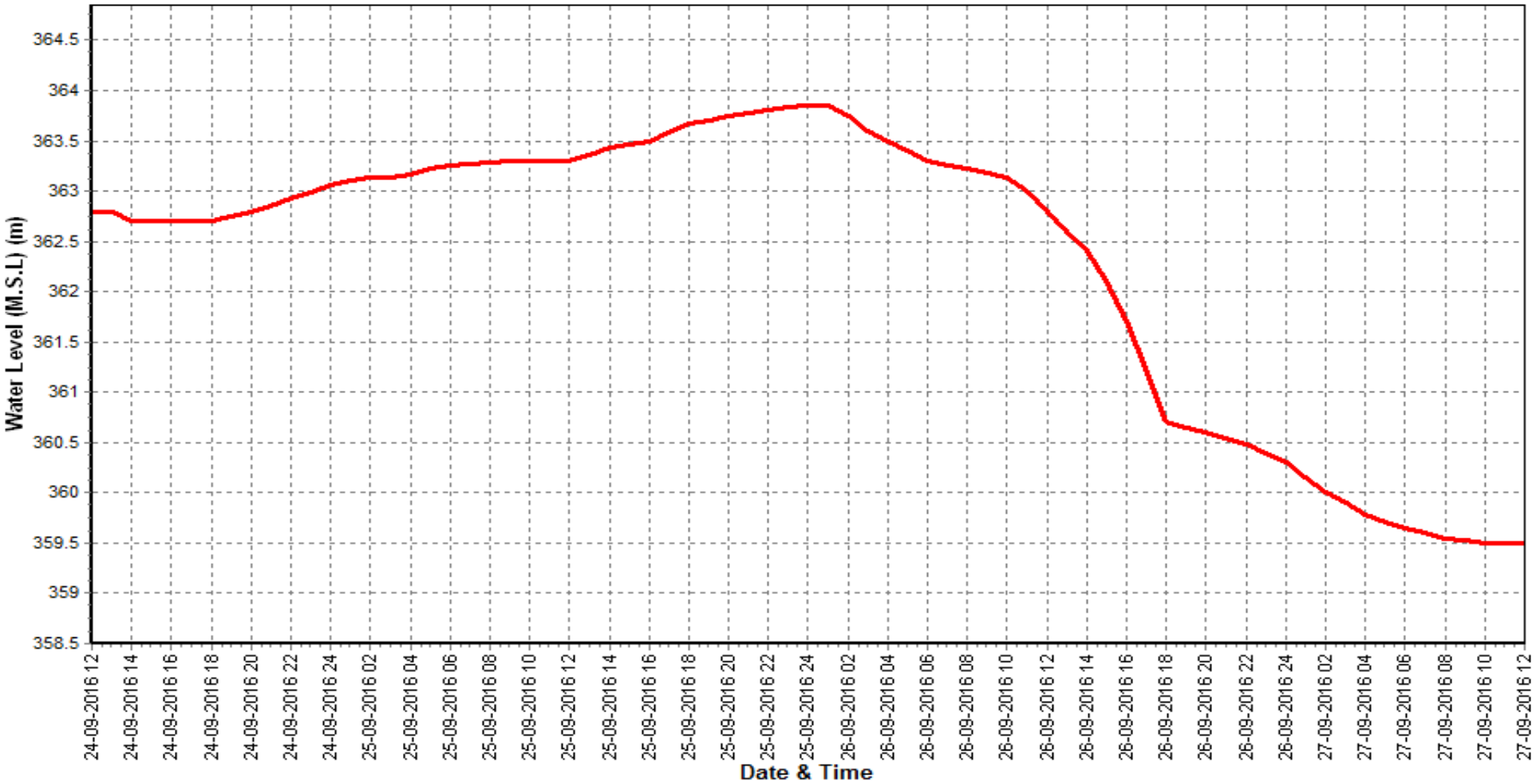
Local River : Purna **Sub-Division : Purna SD, Nanded**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

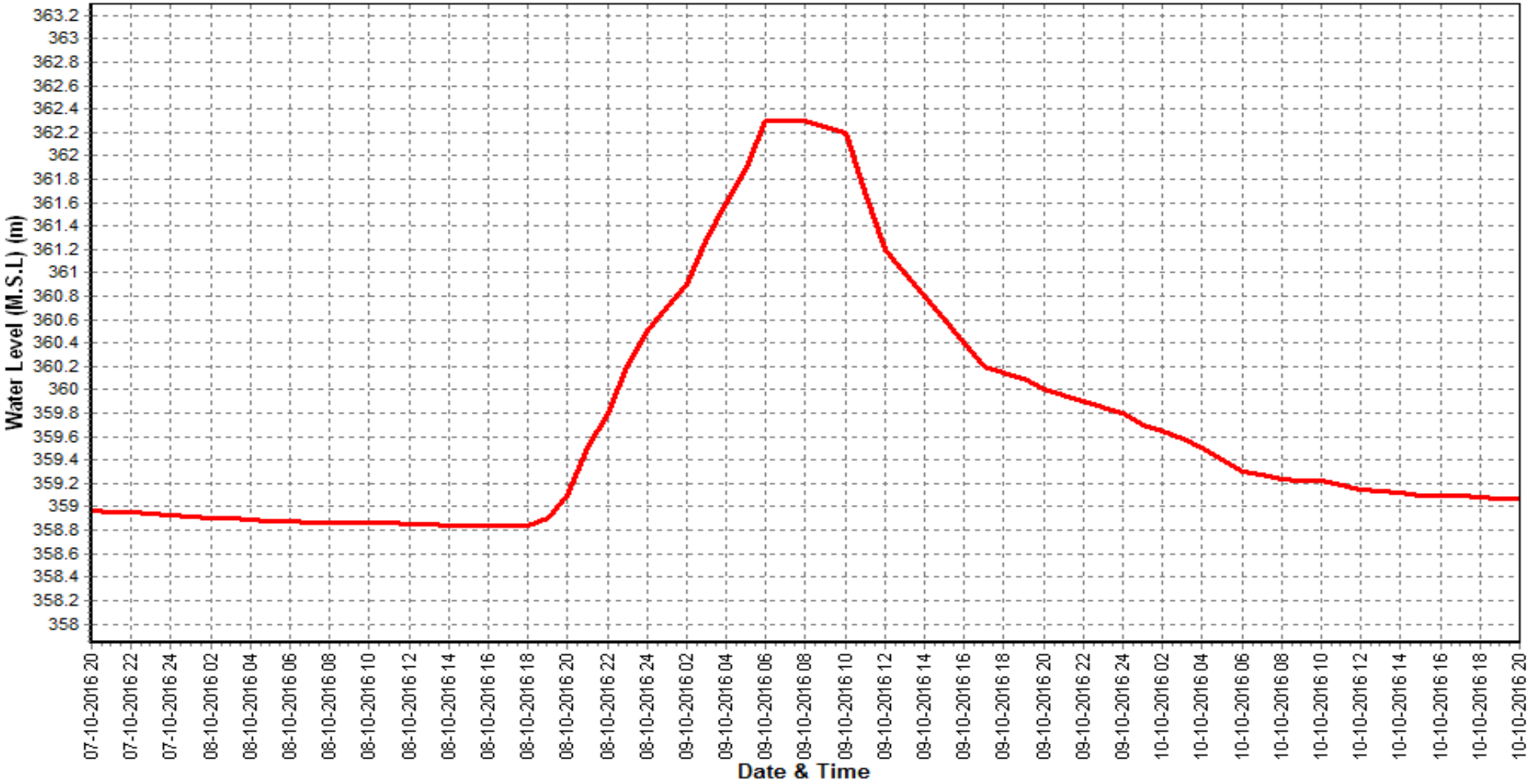


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**

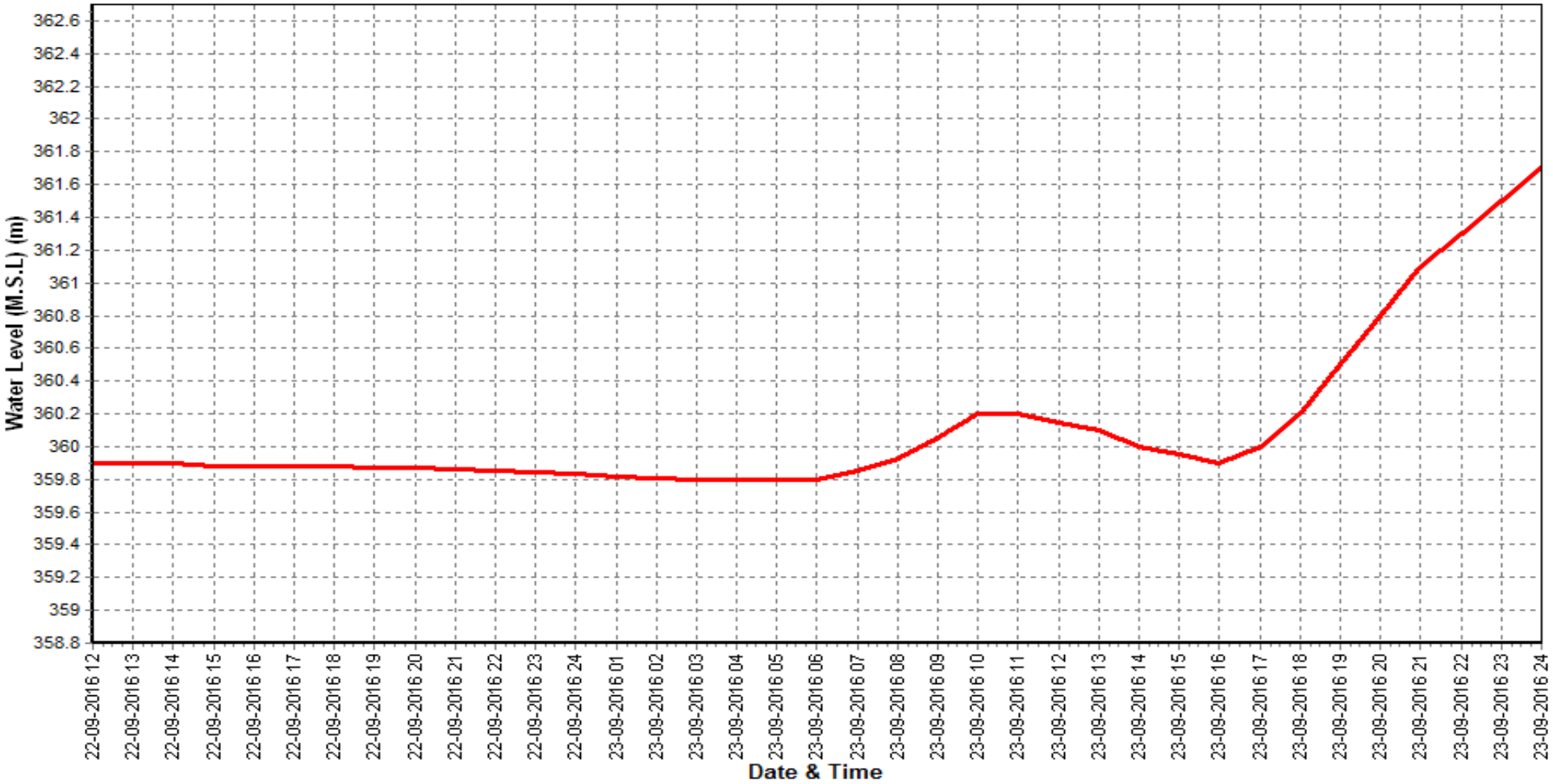


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Purna (AGR00A5) **Division : U Godavari Div., Hyderabad**

Local River : Purna **Sub-Division : Purna SD, Nanded**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Zari**		**Code**	**: AGR10C6**	
State	: Maharashtra		District	Parbhani	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Purna		Sub Tributary	: Dudhna	
Sub-Sub Tributary	: ---		Local River	: Dudhna	
Division	: U Godavari Div., Hyderabad		Sub-Division	: Purna SD, Nanded	
Drainage Area	: 5550 Sq. Km.		Bank	: Right	
Latitude	: 19°23'41"		Longitude	: 76°46'24"	
Zero of Gauge (m)	: 373 (m.s.l) 373 (m.s.l)		12.07.1986 01.06.2015	- 31.05.2015	
	Opening Date		Closing Date		
Gauge	: 23.07.1986		**HFL During 2016-17**	**: 382.82**	
			Corres.Discharge	**: 2622.027 Cumecs(Estimated)**	
Discharge	: 18.06.1987		**Date& Time of Occurance**	**: 25.09.2016 : 08:00**	
Sediment	:				
Water Quality	: 01.08.1988				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1987-1988	1405	382.780	06.10.1987	0.000	373.035	09.02.1988
1988-1989	1920	384.560	21.09.1988	0.000		10.05.1989
1989-1990	1943	384.780	25.07.1989	0.000		26.03.1990
1990-1991	1149	381.760	17.08.1990	0.000	373.520	16.04.1991
1991-1992	824.5	381.125	11.06.1991	0.000		26.01.1992
1992-1993	1474	382.725	03.09.1992	0.000		02.02.1993
1993-1994	216.3	376.635	04.07.1993	0.000		06.03.1994
1994-1995	150.6	375.905	25.08.1994	0.000		25.01.1995
1995-1996	393.9	377.840	02.09.1995	0.000		26.01.1996
1996-1997	255.7	376.820	29.08.1996	0.000		25.01.1997
1997-1998	203.5	376.400	24.09.1997	0.000		25.01.1998
1998-1999	2223	385.510	30.07.1998	0.000		07.02.1999
1999-2000	576.3	378.865	12.09.1999	0.000		26.01.2000
2000-2001	1343	383.135	28.08.2000	0.000		25.01.2001
2001-2002	779.1	381.065	02.10.2001	0.000		25.01.2002
2002-2003	907.2	380.900	27.06.2002	0.000		25.01.2003
2003-2004	481.3	379.000	10.08.2003	0.000		26.01.2004
2004-2005	210.2	376.505	11.09.2004	0.000		25.01.2005
2005-2006	2471	385.710	27.07.2005	0.000		25.01.2006
2006-2007	1875	384.800	07.08.2006	0.000	373.380	14.11.2006
2007-2008	152.7	375.750	30.08.2007	0.000		23.01.2008

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2008-2009	398.4	377.205	14.09.2008	0.000	373.170	25.01.2009
2009-2010	566.1	378.455	25.08.2009	0.000		23.01.2010
2010-2011	891.3	381.295	31.08.2010	0.000	373.500	25.01.2011
2011-2012	419.0	377.350	02.09.2011	0.000		26.01.2012
2012-2013	156.6	376.375	04.09.2012	0.000		24.08.2012
2013-2014	584.3	378.525	20.09.2013	0.000		15.03.2014
2014-2015	386.2	376.750	01.09.2014	0.000	373.000	17.01.2015
2015-2016	4.637	373.600	14.09.2015	0.000	373.000	19.12.2015

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000	374.470	87.26	374.260	63.12	373.775	9.657	374.900	27.48	374.810	82.76 *
2		0.000	374.670	106.3	373.685	5.779	373.935	13.52	376.550	342.6 *	374.800	81.76 *
3		0.000	373.500	2.939 *	373.400	2.629	373.740	9.039	375.800	135.9	374.800	81.76 *
4		0.000	373.410	1.163	373.390	2.569	373.730	9.304 *	376.005	142.2	374.790	80.77 *
5		0.000	373.385	1.061	373.370	2.022	373.670	7.315 *	374.585	21.78	374.780	79.78 *
6		0.000	373.500	2.939 *	373.400	2.391	373.490	3.713	375.425	114.1	374.770	78.80 *
7		0.000	373.700	6.109	373.500	2.939 *	373.370	1.973	374.980	32.44	374.750	76.86 *
8		0.000	373.400	2.619	373.345	1.710	373.360	1.867	374.840	18.61	374.740	75.90 *
9		0.000	373.300	2.199	373.300	1.630	373.340	1.838	375.210	127.4 *	374.730	74.94 *
10		0.000	373.670	7.315 *	373.280	1.222	373.330	1.833	374.910	93.05 #	374.670	69.32 *
11		0.000	373.815	7.499	373.200	0.000	373.330	0.000	374.820	83.76 *	374.620	64.80 *
12		0.000	375.700	124.3	373.180	0.000	373.320	0.000	375.140	118.9 *	374.570	60.42 *
13		0.000	373.850	10.21	373.160	0.000	373.300	0.000	375.000	102.8 #	374.540	57.87 *
14		0.000	373.490	3.597	373.150	0.000	373.300	0.000	374.980	100.6 #	374.510	55.37 *
15		0.000	373.340	2.933	373.130	0.000	373.290	0.000	375.100	114.2 #	374.500	54.55 *
16		0.000	373.280	1.207	373.120	0.000	374.550	58.72 #	375.180	123.7 *	374.490	53.73 *
17		0.000	373.270	0.107 *	373.110	0.000	375.200	137.5	375.190	124.9 #	374.800	81.76 *
18		0.000	373.400	2.580	373.100	0.000	374.480	52.92 *	375.160	121.3 #	374.460	51.32 *
19		0.000	373.270	1.089	373.080	0.000	375.060	109.6 *	375.110	115.4 #	374.450	50.53 *
20		0.000	373.230	0.000	373.060	0.000	375.010	103.9 *	375.085	112.4 #	374.420	48.18 *
21		0.000	373.140	0.000	373.040	0.000	375.000	102.8 *	375.020	105.0 #	374.390	45.89 *
22		0.000	373.100	0.000		0.000	374.940	96.25 *	374.980	100.6 #	374.340	42.20 *
23		0.000	373.410	2.703		0.000	375.425	127.9	374.960	98.41 *	374.290	38.65 *
24		0.000	373.460	2.185 *		0.000	377.260	395.0	374.910	93.05 *	374.200	32.65 *
25		0.000	374.340	42.20 *		0.000	382.820	2622 *	374.880	89.90 *	374.120	27.72 *
26		0.000	373.875	10.35		0.000	375.275	108.3	374.850	86.80 *	374.000	21.05 *
27		0.000	373.535	3.998		0.000	374.920	93.27	374.840	85.78 *	373.900	0.000
28		0.000	374.170	30.75 *		0.000	374.810	70.10	374.840	85.78 *	373.760	0.000
29		0.000	374.210	65.51		0.000	374.400	58.59	374.830	84.77 *	373.670	0.000
30	374.450	79.63	374.155	59.57		0.000	374.790	25.42	374.830	84.77 *	373.520	0.000
31			373.700	8.281 *	373.420	3.385			374.820	83.76 *		
Ten-Daily Mean												
I Ten-Daily		0.000	373.701	22.00	373.493	8.601	373.574	6.006	375.320	105.6	374.764	78.26
II Ten-Daily		0.000	373.664	15.36	373.129	0.000	374.084	46.26	375.076	111.8	374.536	57.85
III Ten-Daily	374.450	7.963	373.736	20.50	373.230	0.308	375.964	370.0	374.887	90.79	374.019	20.82
Monthly												
Min.	374.450	0.000	373.100	0.000	373.040	0.000	373.290	0.000	374.585	18.61	373.520	0.000
Max.	374.450	79.63	375.700	124.3	374.260	63.12	382.820	2622	376.550	342.6	374.810	82.76
Mean	374.450	2.654	373.701	19.32	373.304	2.884	374.541	140.7	375.088	102.3	374.440	52.31

Annual Runoff in MCM = 867 Annual Runoff in mm = 156

Peak Observed Discharge = 395.0 cumecs on 24-09-2016 Corres. Water Level :377.26 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1		0.000		0.000	374.580	0.000		0.000		0.000		0.000
2		0.000		0.000	374.520	0.000		0.000		0.000		0.000
3		0.000		0.000	374.460	0.000		0.000		0.000		0.000
4		0.000		0.000	374.380	0.000		0.000		0.000		0.000
5		0.000		0.000	374.300	0.000		0.000		0.000		0.000
6		0.000		0.000	374.210	0.000		0.000		0.000		0.000
7		0.000		0.000	374.300	0.000		0.000		0.000		0.000
8		0.000		0.000	375.000	0.000		0.000		0.000		0.000
9		0.000		0.000	375.000	0.000		0.000		0.000		0.000
10		0.000		0.000	375.000	0.000		0.000		0.000		0.000
11		0.000		0.000	374.900	0.000		0.000		0.000		0.000
12		0.000		0.000	374.840	0.000		0.000		0.000	373.975	14.18
13		0.000		0.000	374.780	0.000		0.000		0.000	373.600	2.855
14		0.000		0.000	374.600	0.000		0.000		0.000	373.500	2.939 *
15		0.000		0.000	374.420	0.000		0.000		0.000	373.450	1.022
16		0.000		0.000	374.320	0.000		0.000		0.000	373.400	0.846
17		0.000		0.000	374.220	0.000		0.000		0.000	373.280	0.000
18		0.000		0.000	374.100	0.000		0.000		0.000	373.230	0.000
19		0.000		0.000	374.000	0.000		0.000		0.000	373.200	0.000
20		0.000		0.000	373.920	0.000		0.000		0.000	373.150	0.000
21		0.000		0.000	373.860	0.000		0.000		0.000	373.120	0.000
22		0.000		0.000	373.780	0.000		0.000		0.000	373.100	0.000
23		0.000		0.000	373.720	0.000		0.000		0.000	373.100	0.000
24		0.000		0.000	373.640	0.000	373.150	0.000		0.000	373.100	0.000
25		0.000		0.000	373.550	0.000	374.400	0.000		0.000	373.100	0.000
26		0.000		0.000	373.460	0.000	374.500	0.000		0.000	373.100	0.000
27		0.000	373.950	13.89	373.370	0.000	373.800	0.000		0.000		0.000
28		0.000	374.450	68.91	373.280	0.000	373.620	0.000		0.000		0.000
29		0.000	374.600	63.03 *			373.510	0.000		0.000		0.000
30		0.000	374.700	72.10 *			373.350	0.000 *		0.000		0.000
31		0.000	374.650	67.49 *				0.000 *				0.000
Ten-Daily M												
I Ten-Daily		0.000		0.000	374.575	0.000		0.000		0.000		0.000
II Ten-Daily		0.000		0.000	374.410	0.000		0.000		0.000	373.421	2.184
III Ten-Daily		0.000	374.470	25.95	373.582	0.000	373.761	0.000		0.000	373.103	0.000
Monthly												
Min.		0.000	373.950	0.000	373.280	0.000	373.150	0.000		0.000	373.100	0.000
Max.		0.000	374.700	72.10	375.000	0.000	374.500	0.000		0.000	373.975	14.18
Mean		0	374.470	9.207	374.233	0	373.761	0		0	373.294	0.705

Peak Computed Discharge = 2622 cumecs on 25-09-2016 Corres. Water Level :382.82 m

Lowest Computed Discharge = 0.000 cumecs on 30-03-2017 Corres. Water Level :373.35 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

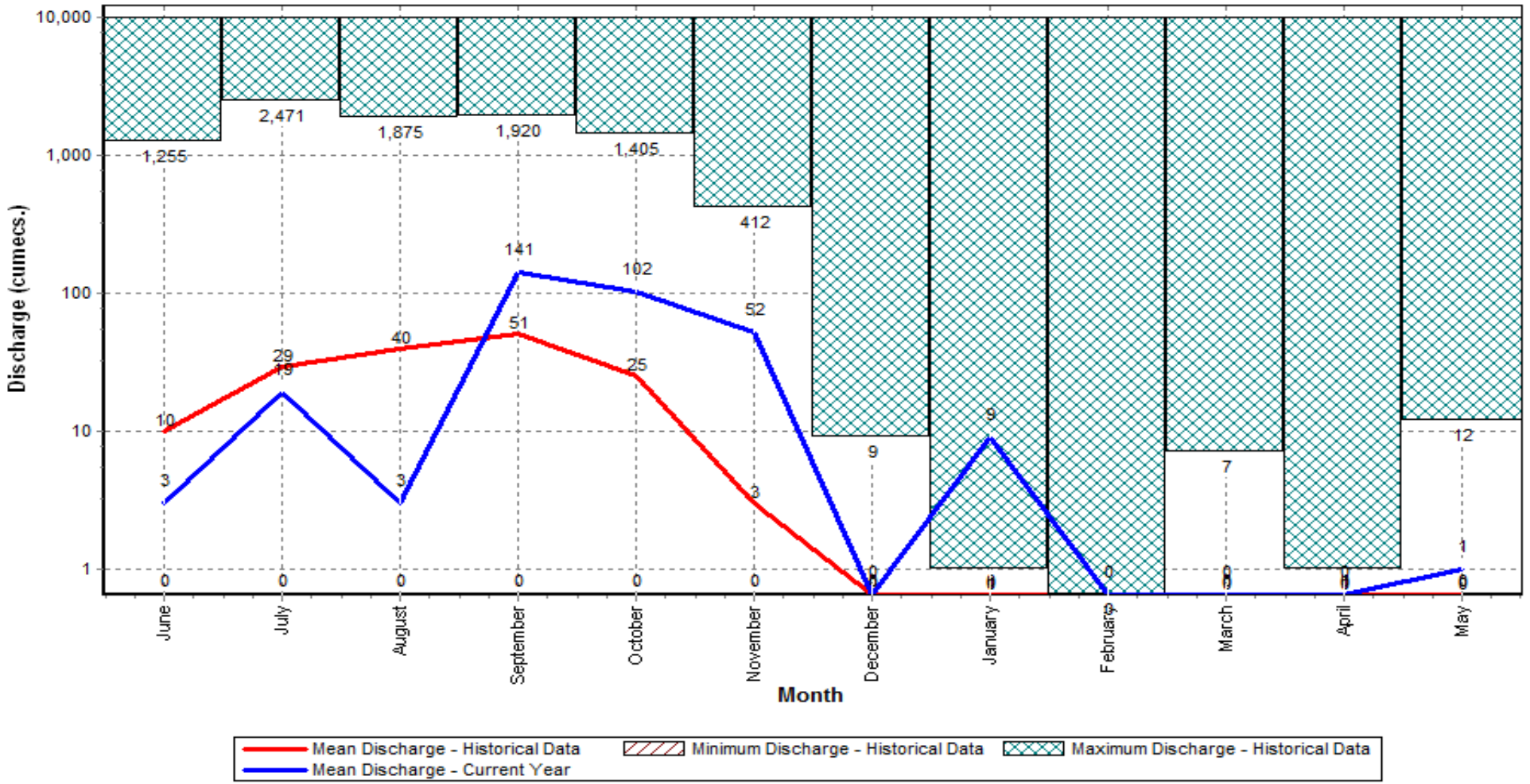
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Zari (AGR10C6) | **Data considered : 1987-2017** | **Division : U Godavari Div., Hyderabad**

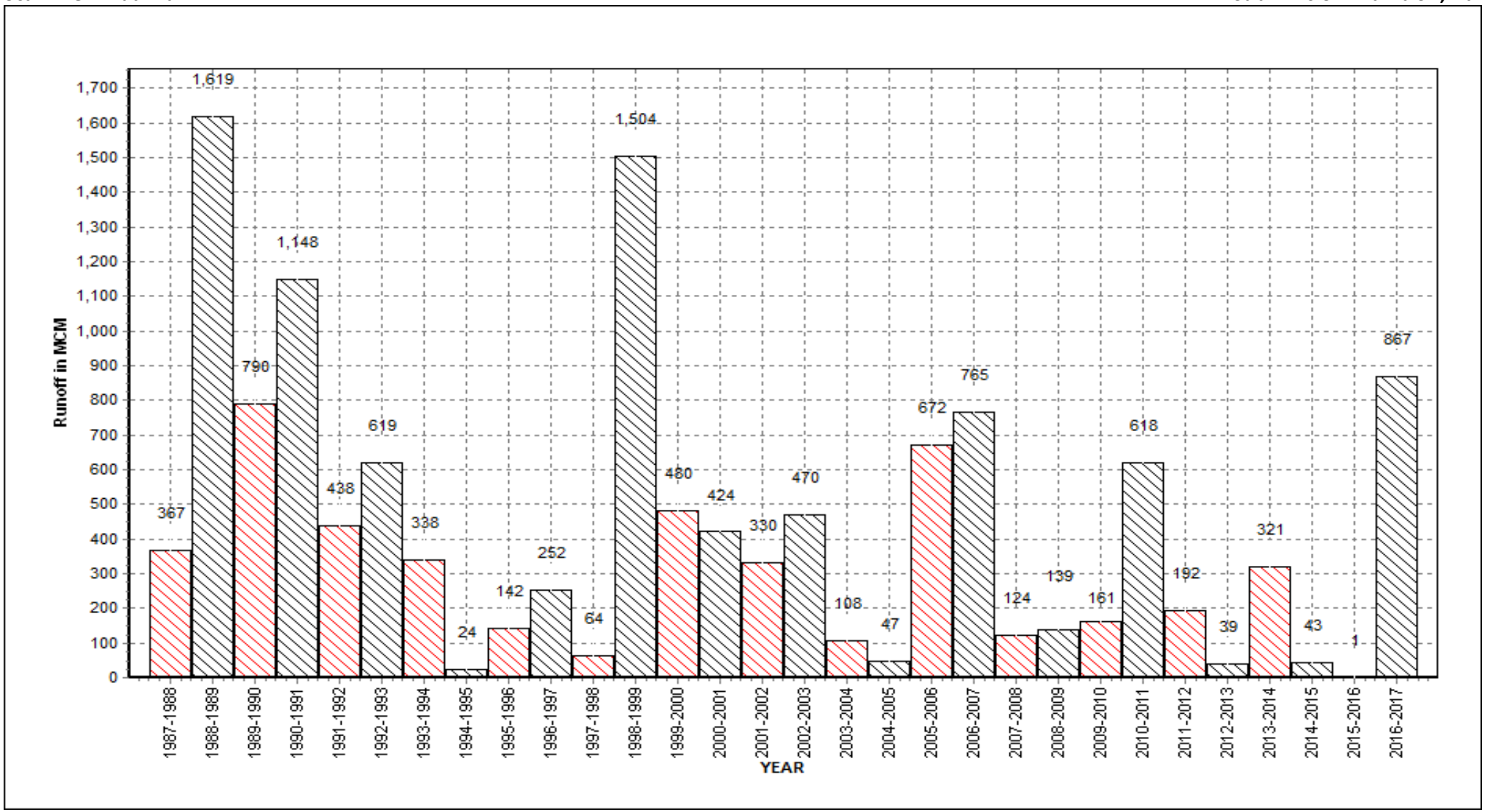
Local River : Dudhna | **Sub-Division : Purna SD, Nanded**



Annual Runoff Values for the period: 1987 - 2017

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**



Note: Missing values have not been considered while arriving at Annual Runoff

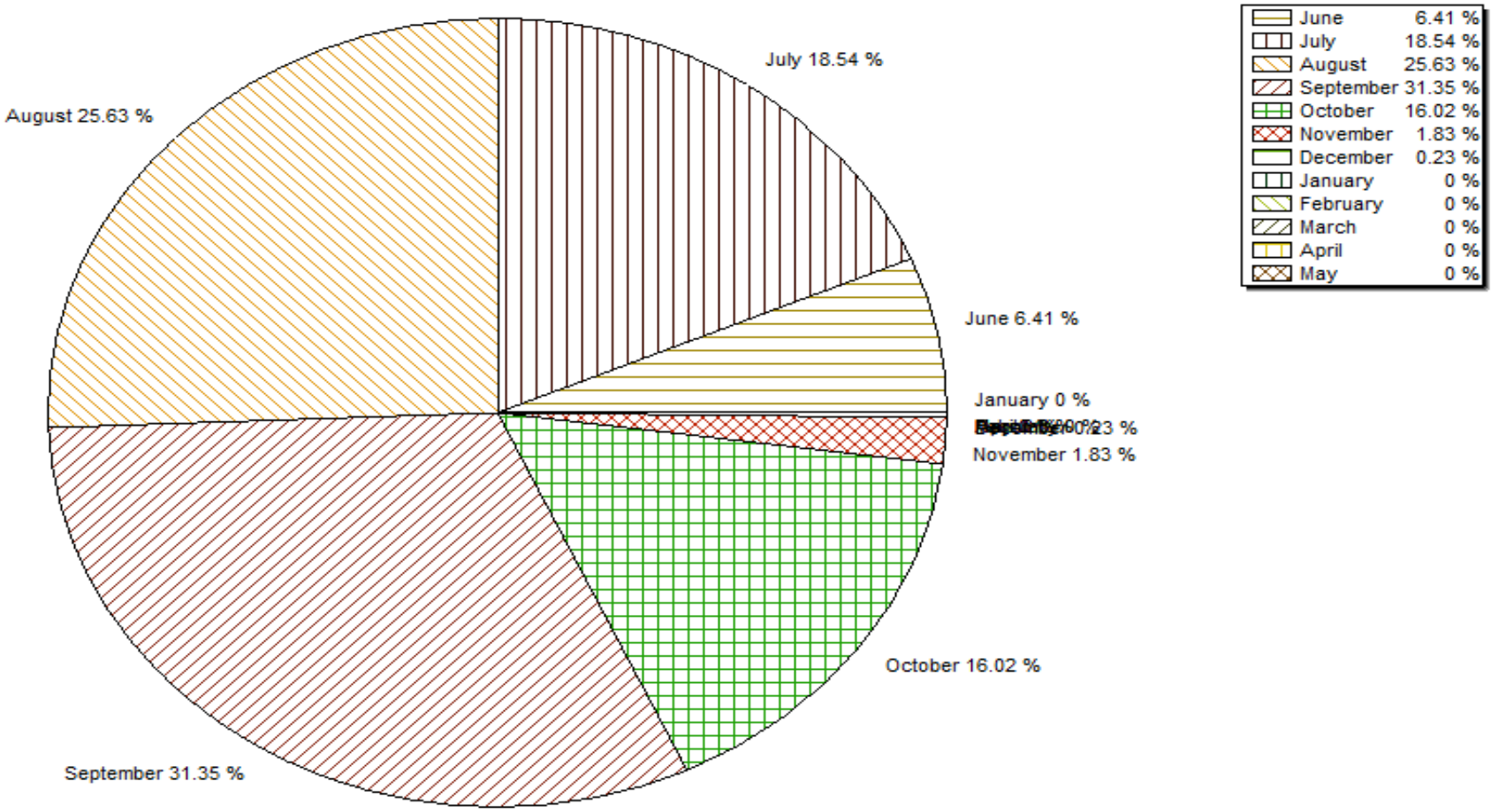
Monthly Average Runoff based on period : 1987-2016

Station Name : Zari (AGR10C6)

Local River : Dudhna

Division : U Godavari Div., Hyderabad

Sub-Division : Purna SD, Nanded



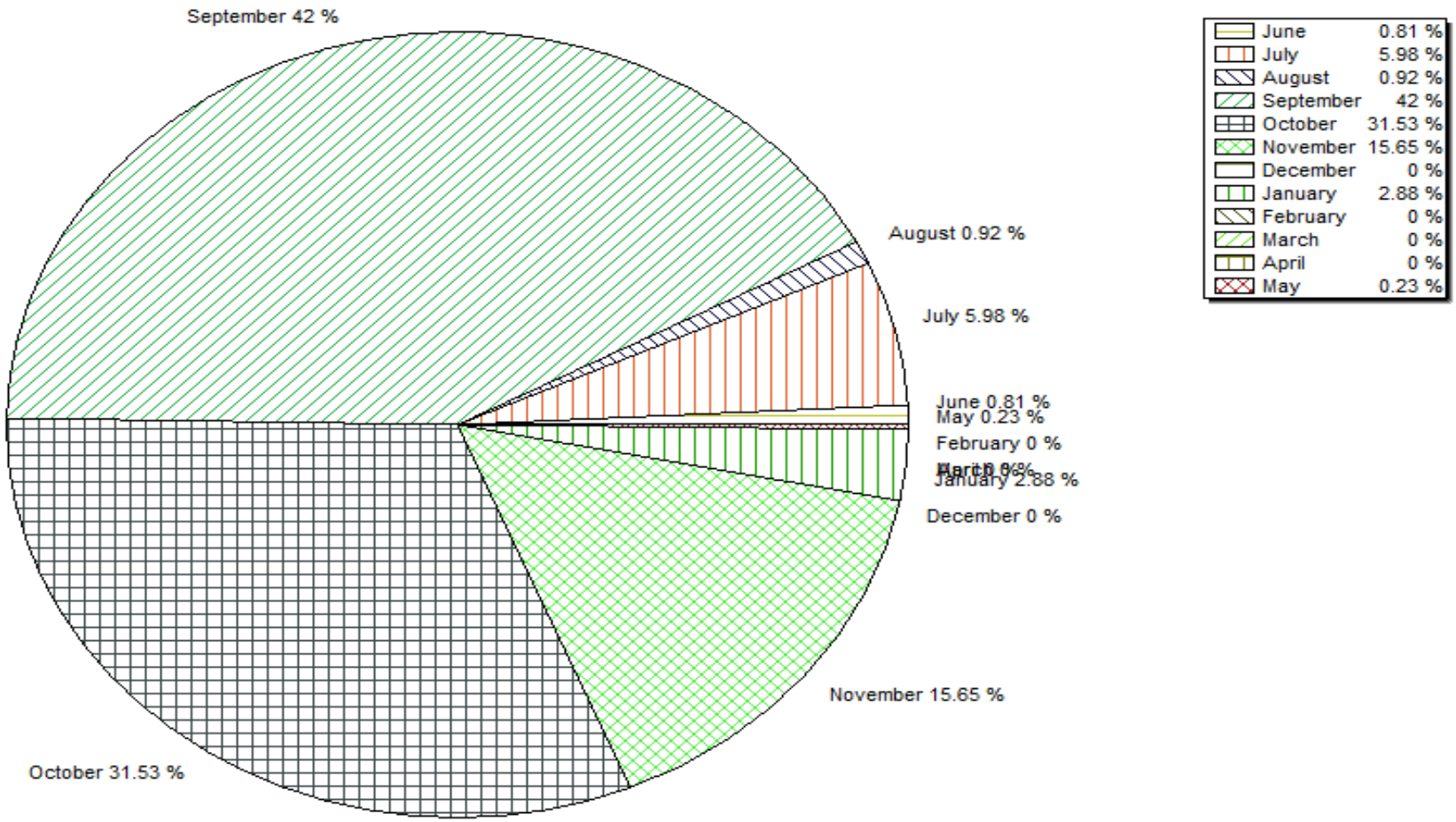
Monthly Runoff for the Year : 2016-2017

Station Name : Zari (AGR10C6)

Local River : Dudhna

Division : U Godavari Div., Hyderabad

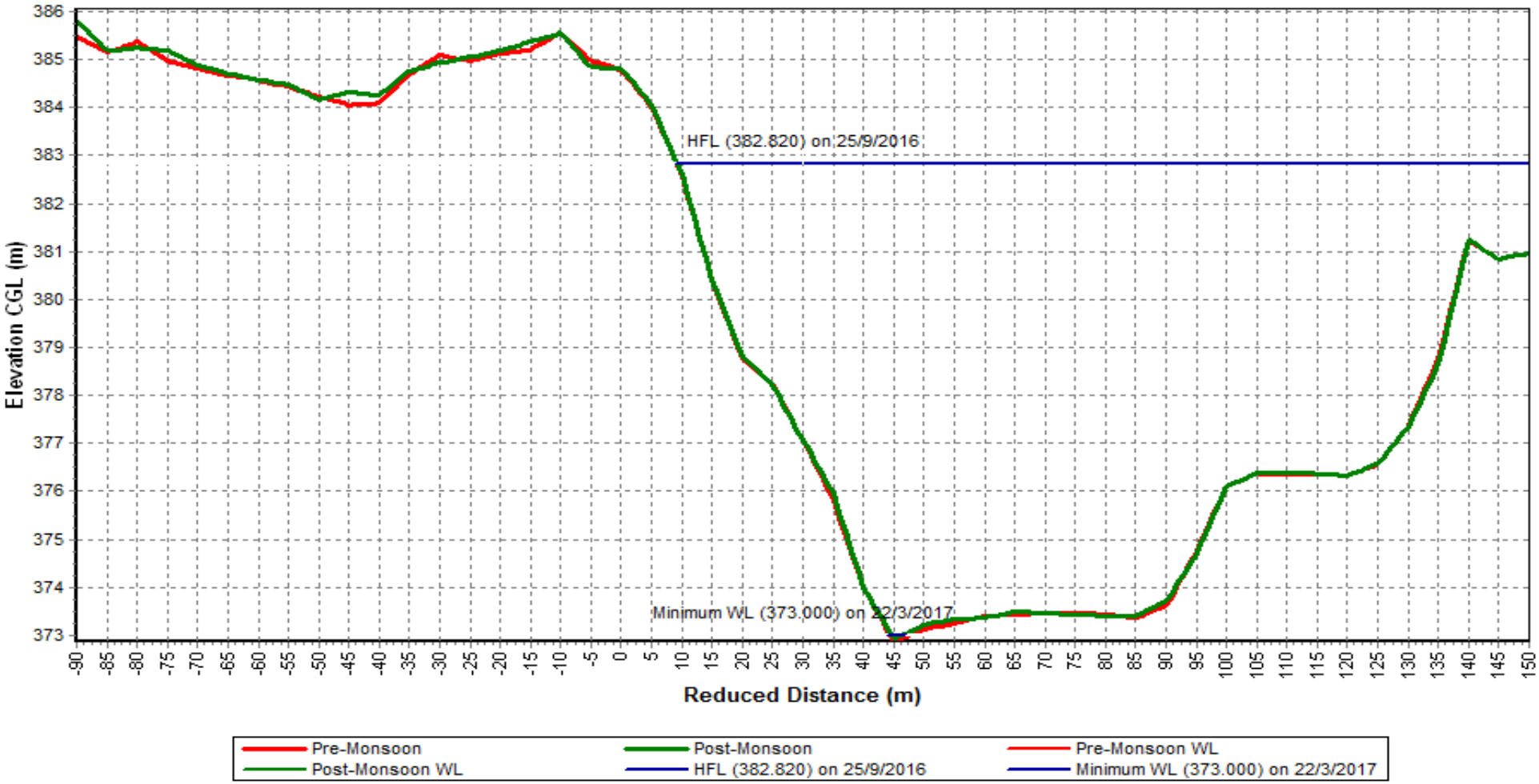
Sub-Division : Purna SD, Nanded



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

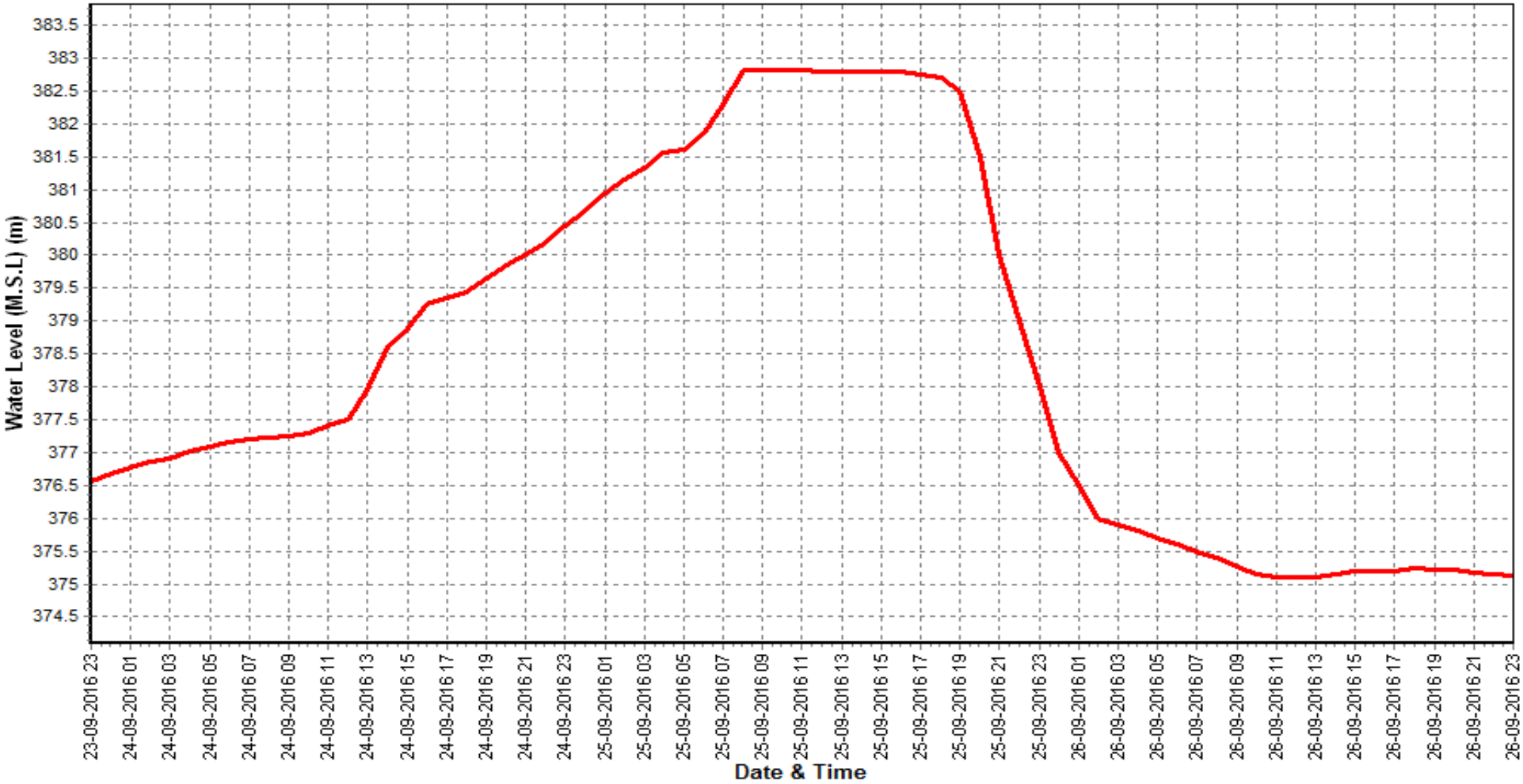
Local River : Dudhna **Sub-Division : Purna SD, Nanded**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

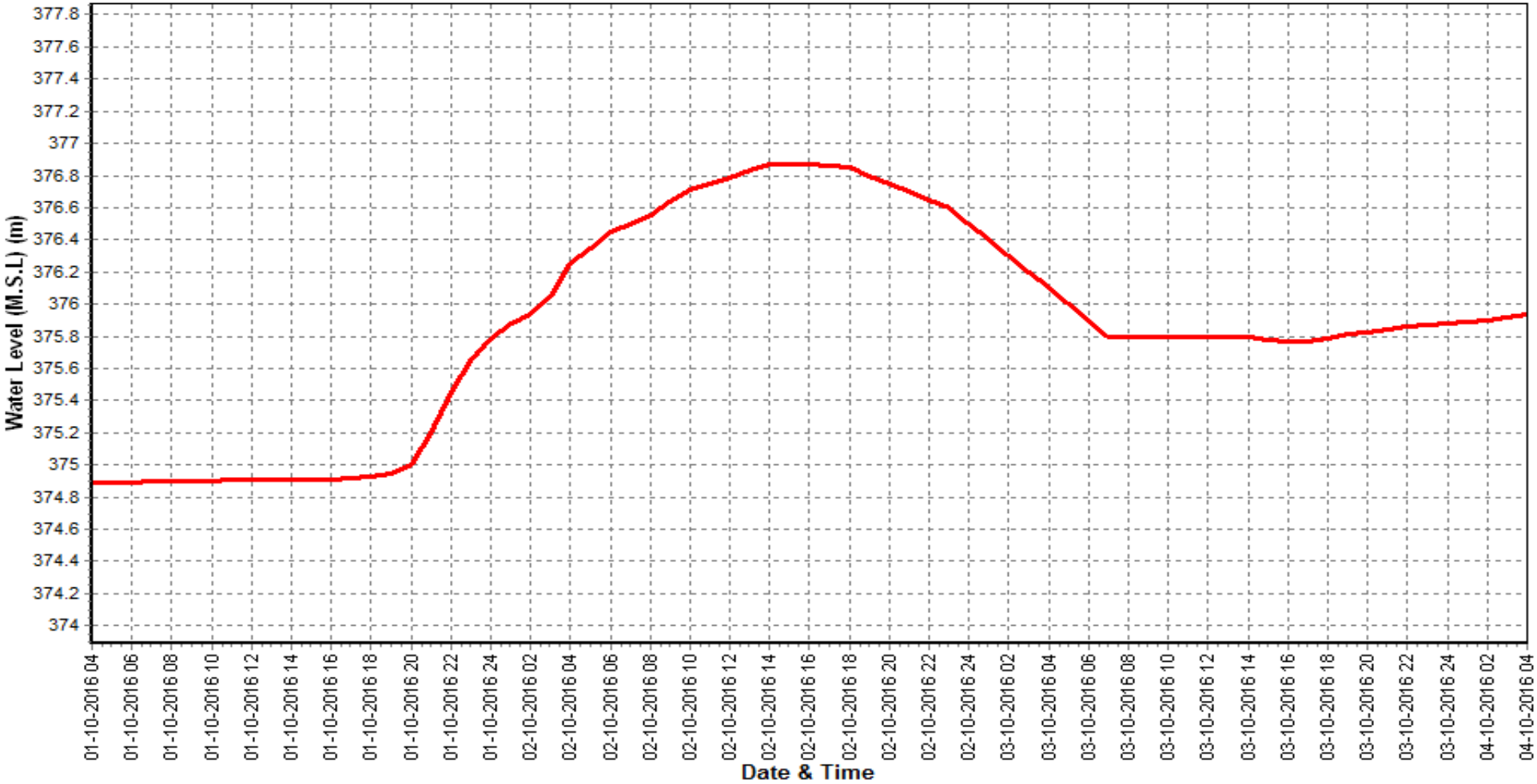


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**

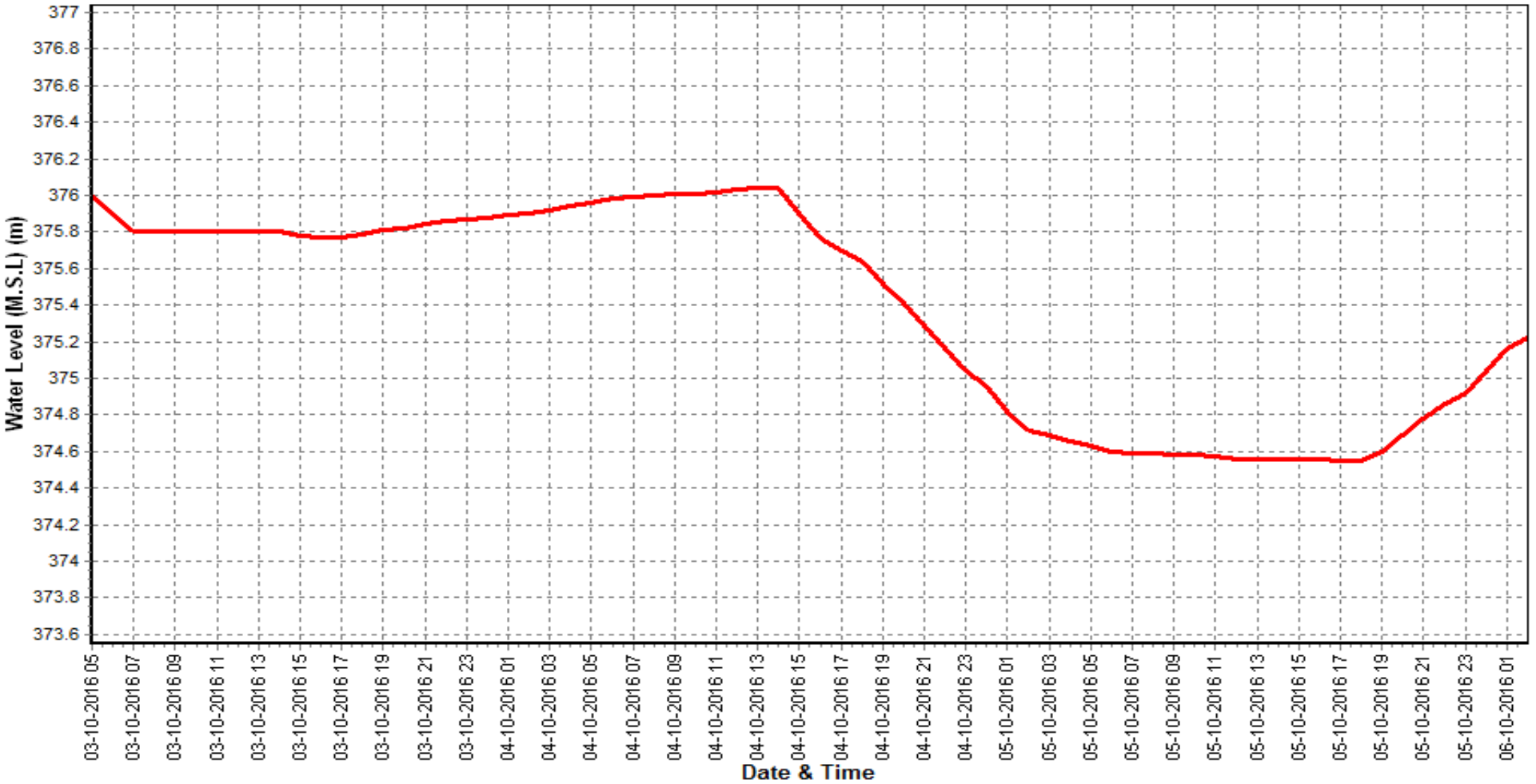


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Zari (AGR10C6) **Division : U Godavari Div., Hyderabad**

Local River : Dudhna **Sub-Division : Purna SD, Nanded**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**G.R.Bridge**	**Code**	**:**	**AG000R6**
State	:	Maharashtra	District		Parbhani
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	--'
Sub-Sub Tributary	:	---	Local River	:	Godavari
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	Purna SD, Nanded
Drainage Area	:	33934 Sq. Km.	Bank	:	Left
Latitude	:	18°57'00"	Longitude	:	76°45'00"
Zero of Gauge (m)	:	364 (m.s.l) 364 (m.s.l)	01.01.1976 01.06.2015	-	31.05.2015
		Opening Date	Closing Date		
Gauge	:	17.06.1976	**HFL During 2016-17**	**:**	**374.22**
			Corres.Discharge	**:**	**1754.25 Cumecs(Estimated)**
Discharge	:	19.06.1976	**Date& Time of**	**:**	**26.09.2016**
			Occurance	**:**	**00:00**
Sediment	:	01.07.1976			
Water Quality	:	01.07.1976			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1977-1978	1173	370.065	03.07.1977	0.800	365.125	06.06.1977
1978-1979	1474	370.932	15.06.1978	0.600	365.120	08.05.1979
1979-1980	2781	373.168	27.09.1979	1.000	365.150	13.06.1979
1980-1981	3027	372.705	26.08.1980	2.100	365.360	28.04.1981
1981-1982	1556	370.750	24.09.1981	3.400	365.360	28.01.1982
1982-1983	448.4	368.075	12.07.1982	2.400	365.335	11.05.1983
1983-1984	4676	374.925	16.09.1983	3.100	365.320	04.05.1984
1984-1985	1170	369.718	10.10.1984	4.000	365.360	07.03.1985
1985-1986	308.0	367.735	07.10.1985	0.000	364.960	27.04.1986
1986-1987	393.0	367.970	19.07.1986	0.000	365.265	25.01.1987
1987-1988	824.7	369.640	07.10.1987	0.000	365.140	15.03.1988
1988-1989	2334	373.050	30.09.1988	0.000	365.250	17.06.1988
1989-1990	4114	376.785	25.07.1989	4.535	365.545	30.03.1990
1990-1991	3451	376.105	15.10.1990	3.200	365.510	09.05.1991
1991-1992	1566	371.330	01.08.1991	0.000	365.185	20.05.1992
1992-1993	2501	373.830	03.09.1992	0.000	365.200	29.03.1993
1993-1994	248.0	367.450	05.08.1993	0.000	365.200	09.03.1994
1994-1995	2060	372.625	31.08.1994	0.000	365.370	16.04.1995
1995-1996	317.2	367.790	16.09.1995	0.000	365.140	26.01.1996
1996-1997	1301	370.350	16.09.1996	0.000		25.01.1997
1997-1998	142.6	366.820	23.09.1997	0.000	365.035	13.05.1998

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1998-1999	4664	376.200	16.10.1998	0.000	365.330	24.02.1999
1999-2000	1165	370.070	02.08.1999	0.000		09.02.2000
2000-2001	4764	375.800	25.08.2000	0.019	365.100	02.06.2000
2001-2002	1392	370.630	02.10.2001	0.000	364.840	25.01.2002
2002-2003	1061	369.675	25.08.2002	0.000	364.140	25.01.2003
2003-2004	322.0	367.400	20.07.2003	0.000		11.02.2004
2004-2005	101.0	366.430	25.09.2004	0.000	364.300	13.02.2005
2005-2006	4484	375.100	22.09.2005	0.000	364.680	10.07.2005
2006-2007	6222	378.370	14.08.2006	0.000	364.990	25.01.2007
2007-2008	1457	370.850	22.09.2007	0.000	364.500	13.06.2007
2008-2009	3507	374.020	22.09.2008	0.000	365.480	25.01.2009
2009-2010	325.1	367.890	26.08.2009	0.000	364.710	25.01.2010
2010-2011	452.8	368.360	16.09.2010	0.000	365.870	25.01.2011
2011-2012	354.7	367.650	27.08.2011	0.000	367.900	26.01.2012
2012-2013	470.1	368.025	04.09.2012	0.000	366.480	30.11.2012
2013-2014	429.3	367.620	18.07.2013	0.000	369.240	19.01.2014
2014-2015	143.8	367.920	05.09.2014	0.000	365.350	23.02.2015
2015-2016	0.000	364.000	25.07.2015	0.000	364.000	14.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000	364.240	0.000	365.340	0.000	365.080	0.000	368.560	367.3	366.500	0.000
2		0.000	364.230	0.000	365.340	0.000	365.110	0.000	370.740	675.0 *	366.490	0.000
3		0.000	364.220	0.000	365.350	0.000	365.110	0.000	370.650	653.7 *	366.400	0.000
4		0.000	364.210	0.000	365.350	0.000	365.100	0.000	369.200	423.8	366.370	0.000
5		0.000	364.200	0.000	365.330	0.000	365.090	0.000	370.500	619.0 *	366.350	0.000
6		0.000	364.190	0.000	365.320	0.000	365.080	0.000	370.250	563.4 *	366.340	0.000
7		0.000	364.180	0.000	365.310	0.000	365.070	0.000	369.300	373.3	366.330	0.000
8		0.000	364.160	0.000	365.300	0.000	365.060	0.000	368.150	295.6	366.320	0.000
9		0.000	364.150	0.000	365.300	0.000	365.050	0.000	368.540	252.0 *	366.300	0.000
10		0.000	364.170	0.000	365.280	0.000	365.040	0.000	368.125	244.5	366.290	0.000
11		0.000	364.170	0.000	365.270	0.000	365.030	0.000	367.550	127.2 *	366.280	0.000
12		0.000	364.320	0.000	365.260	0.000	365.020	0.000	367.500	122.0 *	366.260	0.000
13		0.000	365.290	0.000	365.250	0.000	365.010	0.000	367.750	98.19	366.240	0.000
14		0.000	365.250	0.000	365.240	0.000	365.010	0.000	367.425	79.85	366.220	0.000
15		0.000	365.190	0.000	365.230	0.000	365.010	0.000	367.435	80.58	366.200	0.000
16		0.000	365.160	0.000	365.220	0.000	366.150	41.10	366.070	16.49 *	366.170	0.000
17		0.000	365.140	0.000	365.210	0.000	366.995	75.02 #	366.430	34.76	366.150	0.000
18		0.000	365.140	0.000	365.200	0.000	366.140	19.68 *	367.225	58.30	366.130	0.000
19		0.000	365.170	0.000	365.190	0.000	366.195	43.29	366.950	48.12	366.110	0.000
20		0.000	365.190	0.000	365.180	0.000	366.520	30.88	367.275	50.46	366.080	0.000
21		0.000	365.200	0.000	365.170	0.000	366.695	55.76	367.075	51.45	366.050	0.000
22		0.000	365.210	0.000	365.160	0.000	368.880	206.0	366.600	25.20	366.030	0.000
23		0.000	365.220	0.000	365.150	0.000	369.475	284.5	366.580	44.37 *	366.010	0.000
24		0.000	365.210	0.000	365.140	0.000	370.350	585.3 *	366.750	30.21	365.990	0.000
25		0.000	365.190	0.000	365.130	0.000	373.800	1597 *	366.685	30.59	365.970	0.000
26	364.250	0.000	365.180	0.000	365.120	0.000	373.650	1543 *	366.625	26.51	365.950	0.000
27	364.280	0.000	365.400	0.000	365.110	0.000	369.025	348.3	366.750	25.61	365.930	0.000
28	364.270	0.000	365.310	0.000	365.100	0.000	367.265	136.7	366.600	23.59	365.910	0.000
29	364.260	0.000	365.300	0.000	365.090	0.000	368.850	410.3	366.565	15.84	365.890	0.000
30	364.250	0.000	365.310	0.000	365.080	0.000	366.665	92.58	366.540	41.79 *	365.840	0.000
31			365.330	0.000	365.070	0.000			366.510	9.808		
Ten-Daily Mean												
I Ten-Daily		0.000	364.195	0.000	365.322	0.000	365.079	0.000	369.401	446.7	366.369	0.000
II Ten-Daily		0.000	365.002	0.000	365.225	0.000	365.708	21.00	367.161	71.59	366.184	0.000
III Ten-Daily	364.262	0.000	365.260	0.000	365.120	0.000	369.465	526.0	366.662	29.54	365.957	0.000
Monthly												
Min.	364.250	0.000	364.150	0.000	365.070	0.000	365.010	0.000	366.070	9.808	365.840	0.000
Max.	364.280	0.000	365.400	0.000	365.350	0.000	373.800	1597	370.740	675.0	366.500	0.000
Mean	364.262	0	364.833	0	365.219	0	366.751	182.3	367.707	177.7	366.170	0

Annual Runoff in MCM = 949 Annual Runoff in mm = 28

Peak Observed Discharge = 423.8 cumecs on 04-10-2016 Corres. Water Level :369.2 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	365.800	0.000	365.500	0.000	365.950	0.000	365.540	0.000	365.310	0.000	364.990	0.000
2	365.760	0.000	365.500	0.000	365.900	0.000	365.500	0.000	365.300	0.000	364.970	0.000
3	365.710	0.000	365.560	0.000	365.890	0.000	365.470	0.000	365.290	0.000	364.950	0.000
4	365.670	0.000	365.610	0.000	365.870	0.000	365.460	0.000	365.280	0.000	364.930	0.000
5	365.650	0.000	365.640	0.000	365.850	0.000	365.450	0.000	365.270	0.000	364.910	0.000
6	365.620	0.000	365.680	0.000	365.820	0.000	365.430	0.000	365.260	0.000	364.890	0.000
7	365.600	0.000	365.720	0.000	365.800	0.000	365.410	0.000	365.250	0.000	364.890	0.000
8	365.570	0.000	365.770	0.000	365.780	0.000	365.400	0.000	365.240	0.000	364.890	0.000
9	365.550	0.000	365.810	0.000	365.860	0.000	365.400	0.000	365.230	0.000	364.920	0.000
10	365.520	0.000	365.840	0.000	365.840	0.000	365.410	0.000	365.210	0.000	364.950	0.000
11	365.510	0.000	365.860	0.000	365.820	0.000	365.400	0.000	365.190	0.000	364.980	0.000
12	365.500	0.000	365.860	0.000	365.800	0.000	365.380	0.000	365.170	0.000	365.010	0.000
13	365.500	0.000	365.890	0.000	365.740	0.000	365.360	0.000	365.160	0.000	365.040	0.000
14	365.500	0.000	365.890	0.000	365.650	0.000	365.340	0.000	365.150	0.000	365.070	0.000
15	365.500	0.000	365.890	0.000	365.600	0.000	365.330	0.000	365.140	0.000	365.090	0.000
16	365.510	0.000	365.890	0.000	365.590	0.000	365.350	0.000	365.130	0.000	365.110	0.000
17	365.520	0.000	365.890	0.000	365.580	0.000	365.410	0.000	365.120	0.000	365.120	0.000
18	365.530	0.000	365.890	0.000	365.580	0.000	365.450	0.000	365.110	0.000	365.130	0.000
19	365.540	0.000	365.900	0.000	365.600	0.000	365.480	0.000	365.100	0.000	365.140	0.000
20	365.550	0.000	365.900	0.000	365.610	0.000	365.510	0.000	365.090	0.000	365.150	0.000
21	365.550	0.000	365.900	0.000	365.620	0.000	365.520	0.000	365.080	0.000	365.140	0.000
22	365.540	0.000	365.920	0.000	365.630	0.000	365.500	0.000	365.070	0.000	365.120	0.000
23	365.530	0.000	365.930	0.000	365.630	0.000	365.480	0.000	365.060	0.000	365.100	0.000
24	365.530	0.000	365.940	0.000	365.630	0.000	365.460	0.000	365.050	0.000	365.070	0.000
25	365.520	0.000	365.960	0.000	365.620	0.000	365.450	0.000	365.040	0.000	365.040	0.000
26	365.520	0.000	365.970	0.000	365.610	0.000	365.430	0.000	365.030	0.000	365.010	0.000
27	365.520	0.000	365.980	0.000	365.590	0.000	365.410	0.000	365.020	0.000	364.980	0.000
28	365.510	0.000	365.990	0.000	365.560	0.000	365.390	0.000	365.010	0.000	364.950	0.000
29	365.510	0.000	366.000	0.000			365.370	0.000	365.000	0.000	364.920	0.000
30	365.510	0.000	365.980	0.000			365.350	0.000	365.000	0.000	364.880	0.000
31	365.510	0.000	365.960	0.000			365.330	0.000			364.840	0.000
Ten-Daily M												
I Ten-Daily	365.645	0.000	365.663	0.000	365.856	0.000	365.447	0.000	365.264	0.000	364.929	0.000
II Ten-Daily	365.516	0.000	365.886	0.000	365.657	0.000	365.401	0.000	365.136	0.000	365.084	0.000
III Ten-Daily	365.523	0.000	365.957	0.000	365.611	0.000	365.426	0.000	365.036	0.000	365.005	0.000
Monthly												
Min.	365.500	0.000	365.500	0.000	365.560	0.000	365.330	0.000	365.000	0.000	364.840	0.000
Max.	365.800	0.000	366.000	0.000	365.950	0.000	365.540	0.000	365.310	0.000	365.150	0.000
Mean	365.560	0	365.839	0	365.715	0	365.425	0	365.145	0	365.006	0

Peak Computed Discharge = 1597 cumecs on 25-09-2016 **Corres. Water Level :373.8 m**

Lowest Computed Discharge = 16.49 cumecs on 16-10-2016 **Corres. Water Level :366.07 m**

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

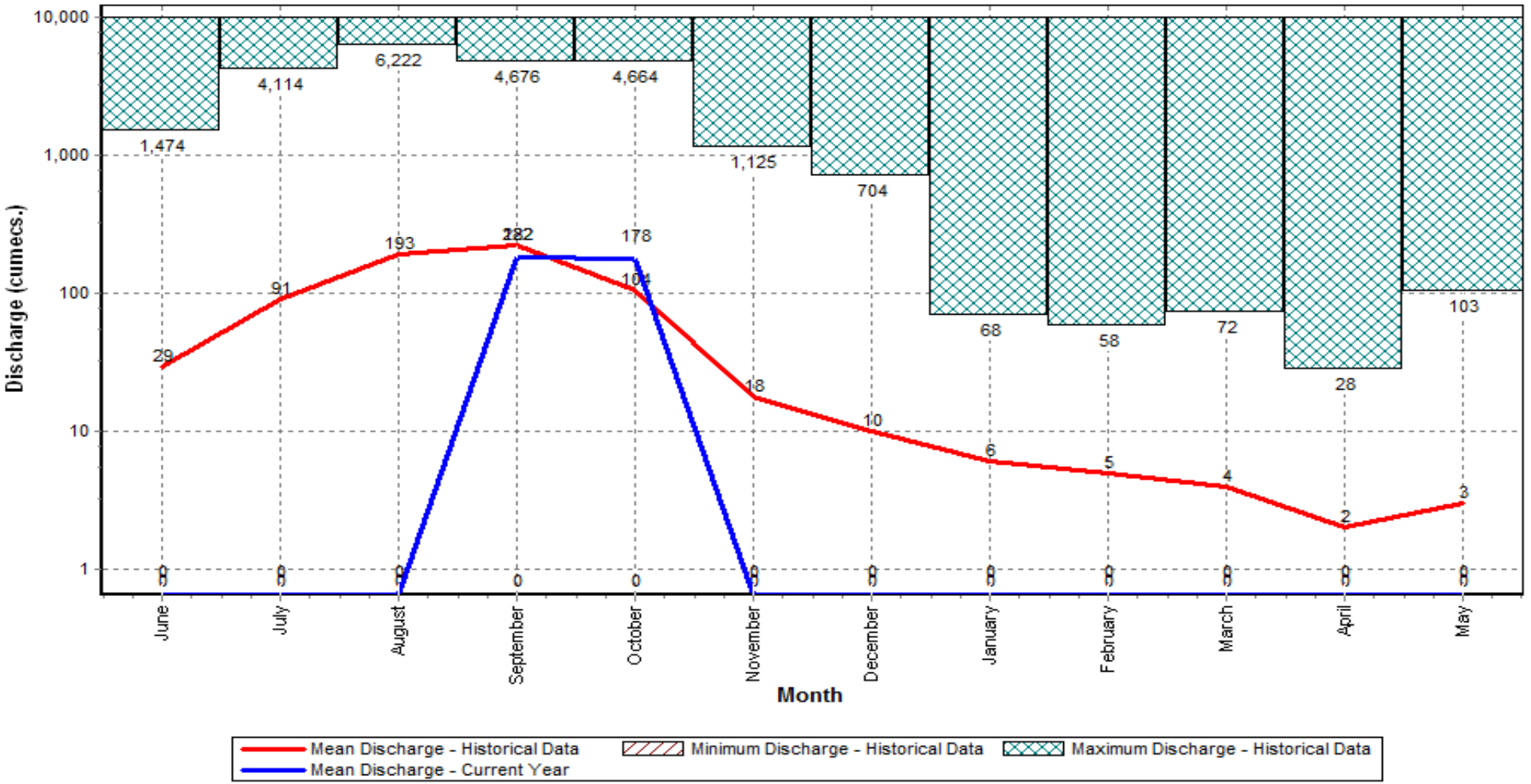
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : G.R.Bridge (AG000R6) | **Data considered : 1977-2017** | **Division : U Godavari Div., Hyderabad**

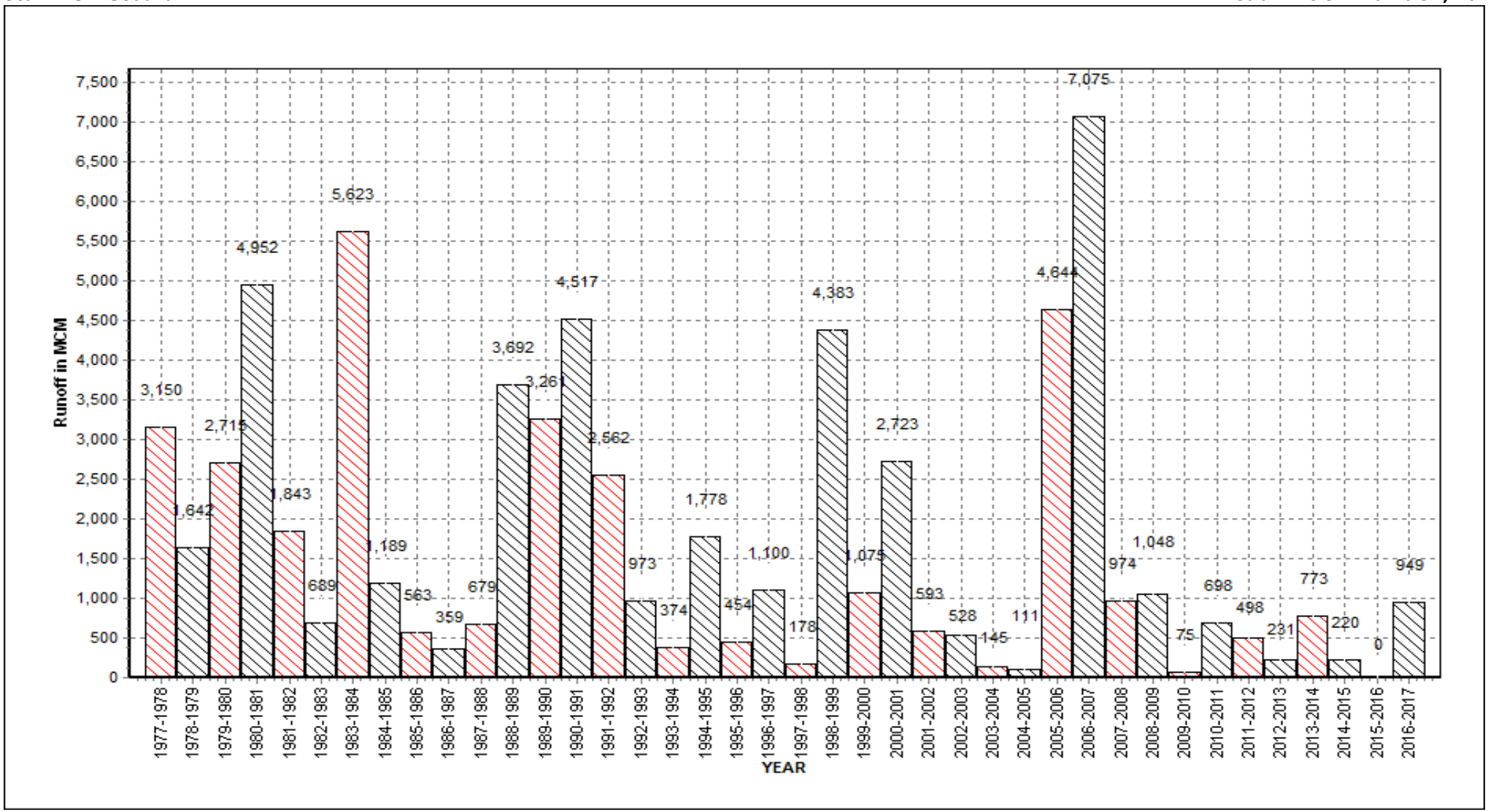
Local River : Godavari | **Sub-Division : Purna SD, Nanded**



Annual Runoff Values for the period: 1977 - 2017

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



Note: Missing values have not been considered while arriving at Annual Runoff

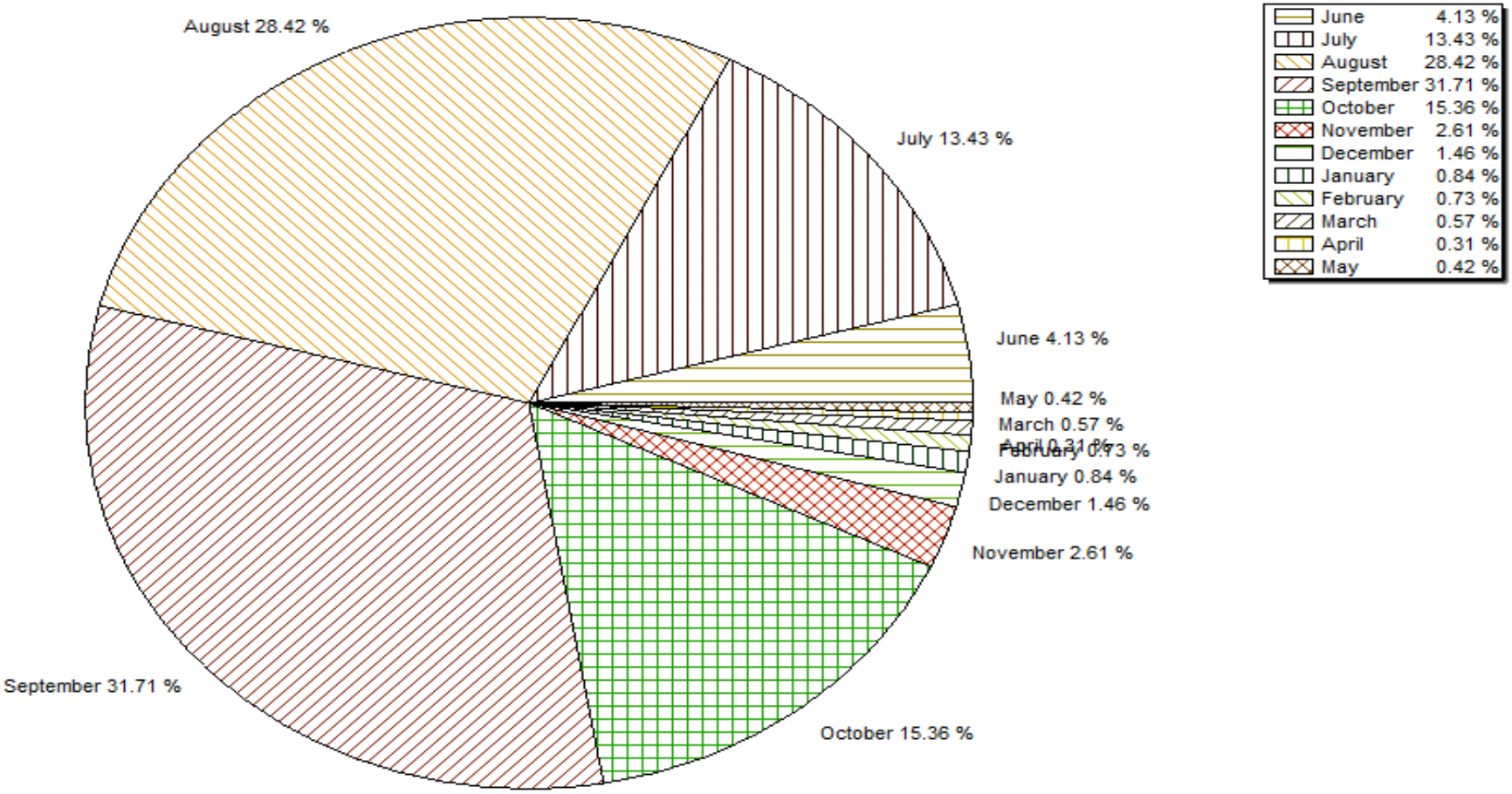
Monthly Average Runoff based on period : 1977-2016

Station Name : G.R.Bridge (AG000R6)

Division : U Godavari Div., Hyderabad

Local River : Godavari

Sub-Division : Purna SD, Nanded



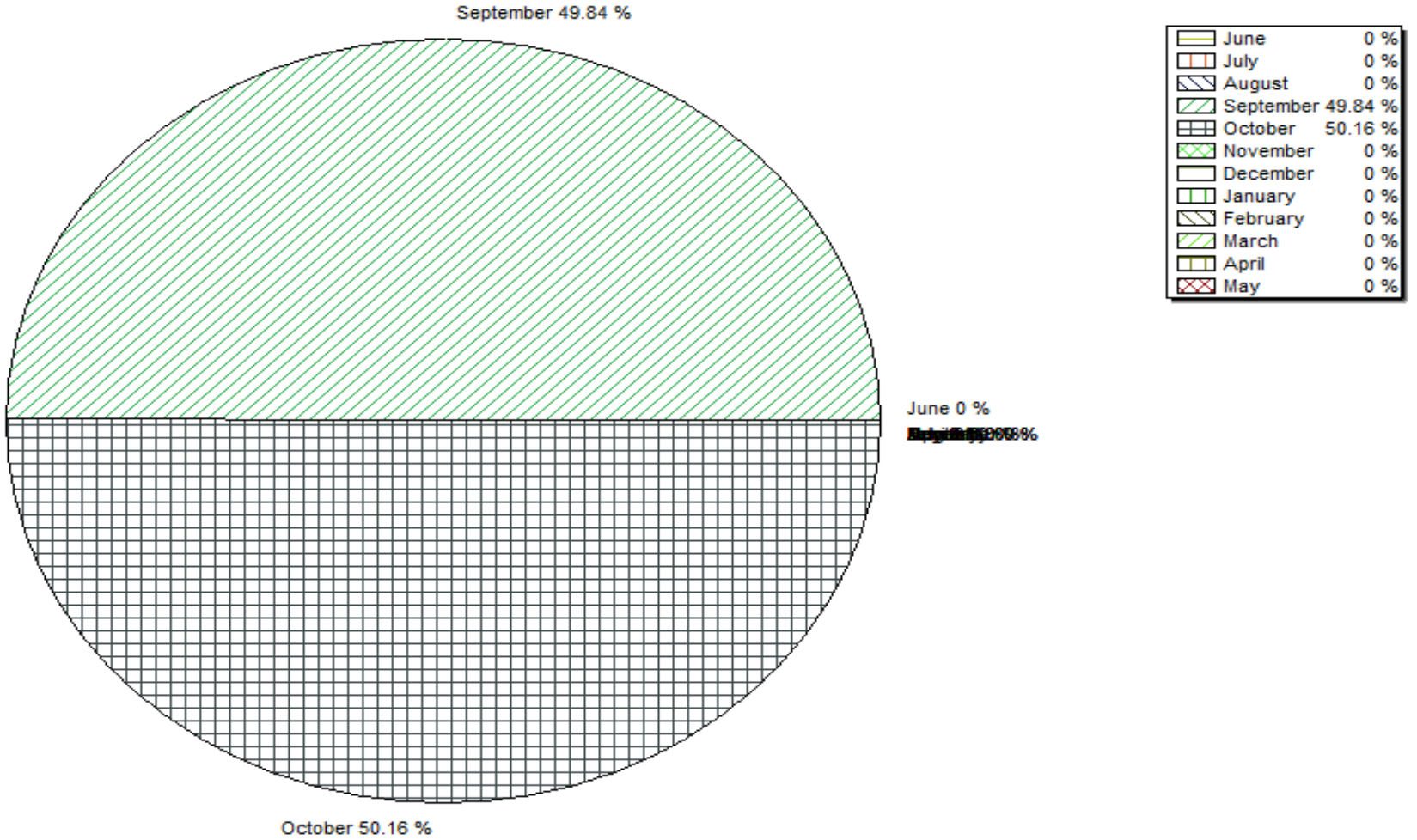
Monthly Runoff for the Year : 2016-2017

Station Name : G.R.Bridge (AG000R6)

Local River : Godavari

Division : U Godavari Div., Hyderabad

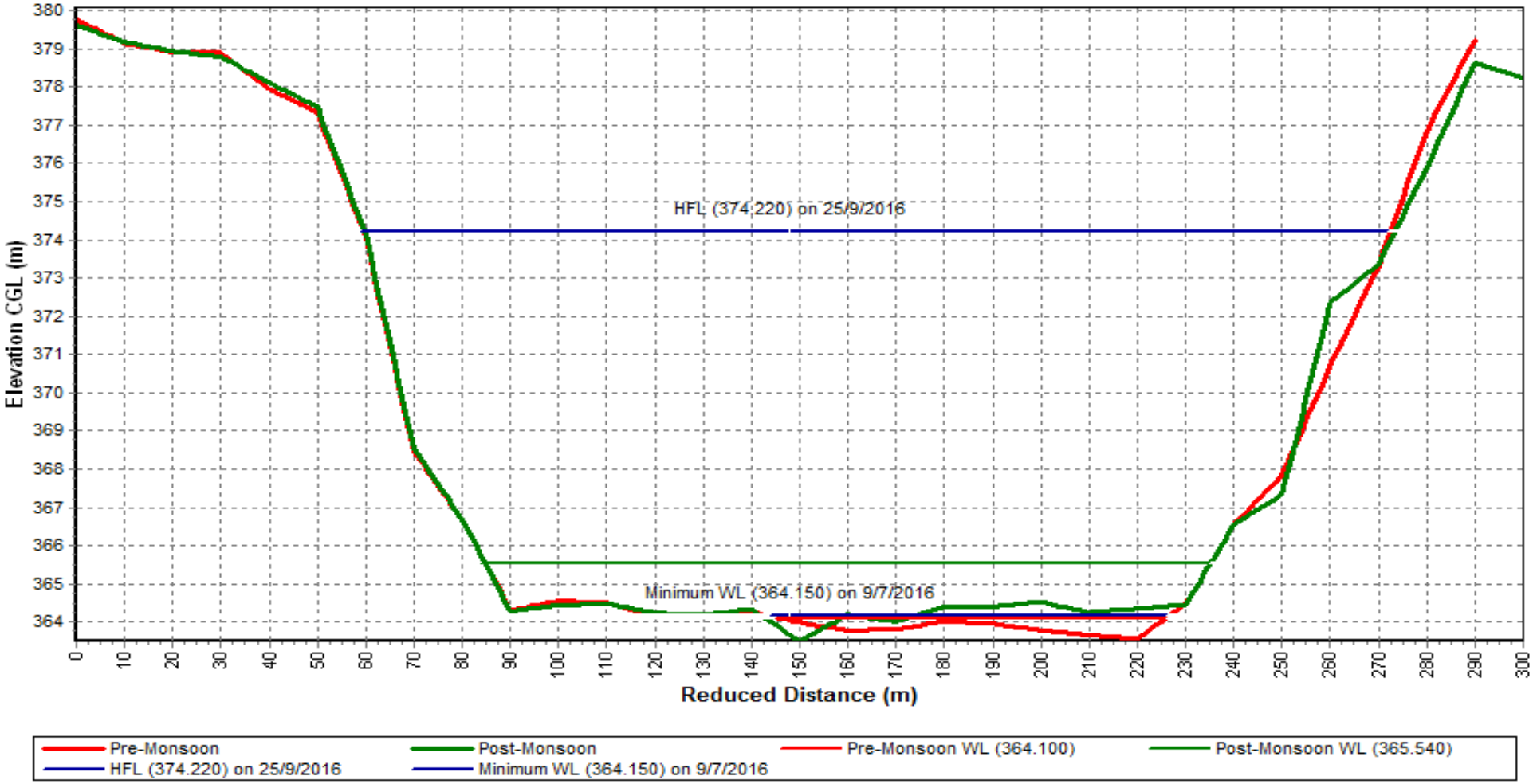
Sub-Division : Purna SD, Nanded



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

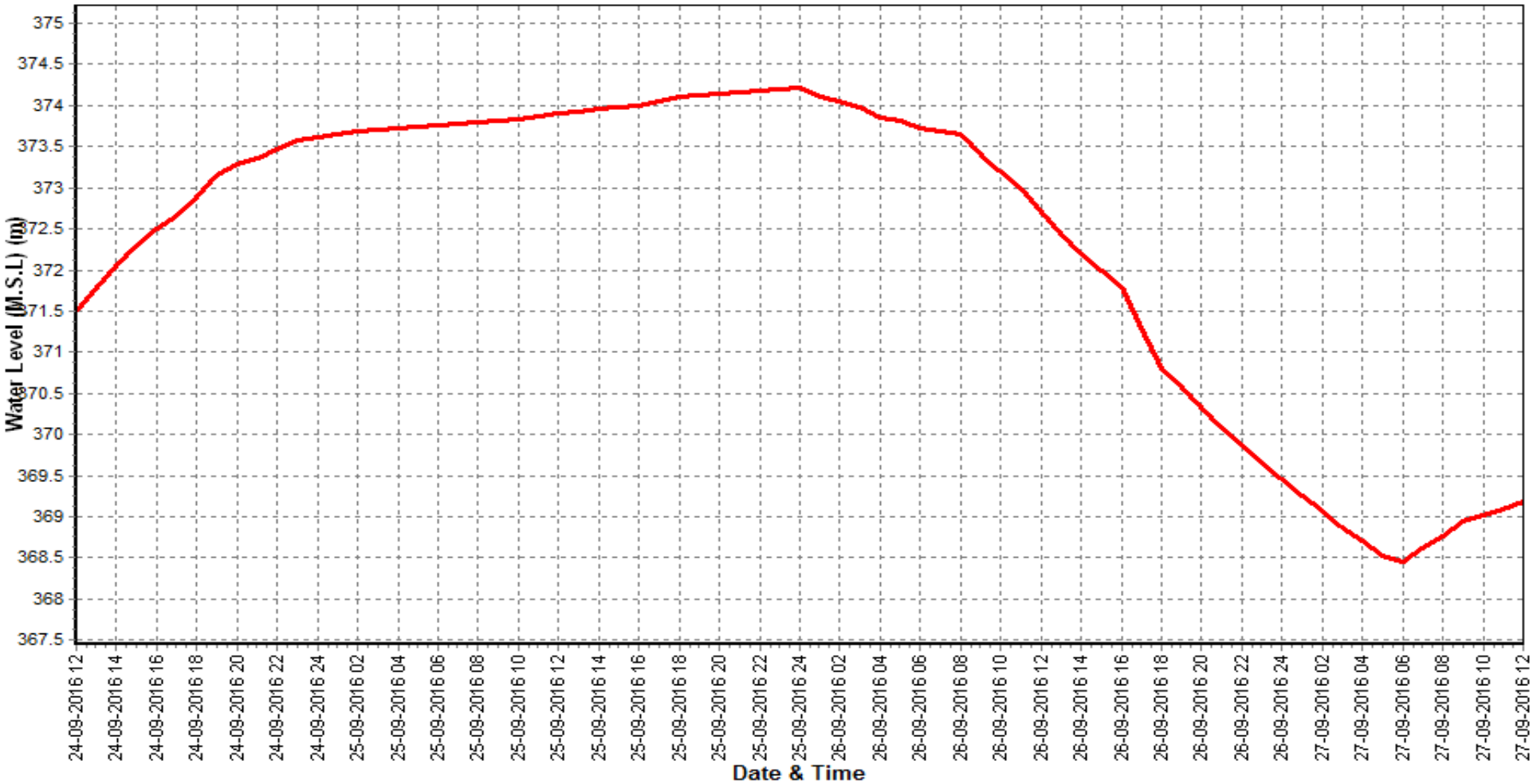
Local River : Godavari **Sub-Division : Purna SD, Nanded**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

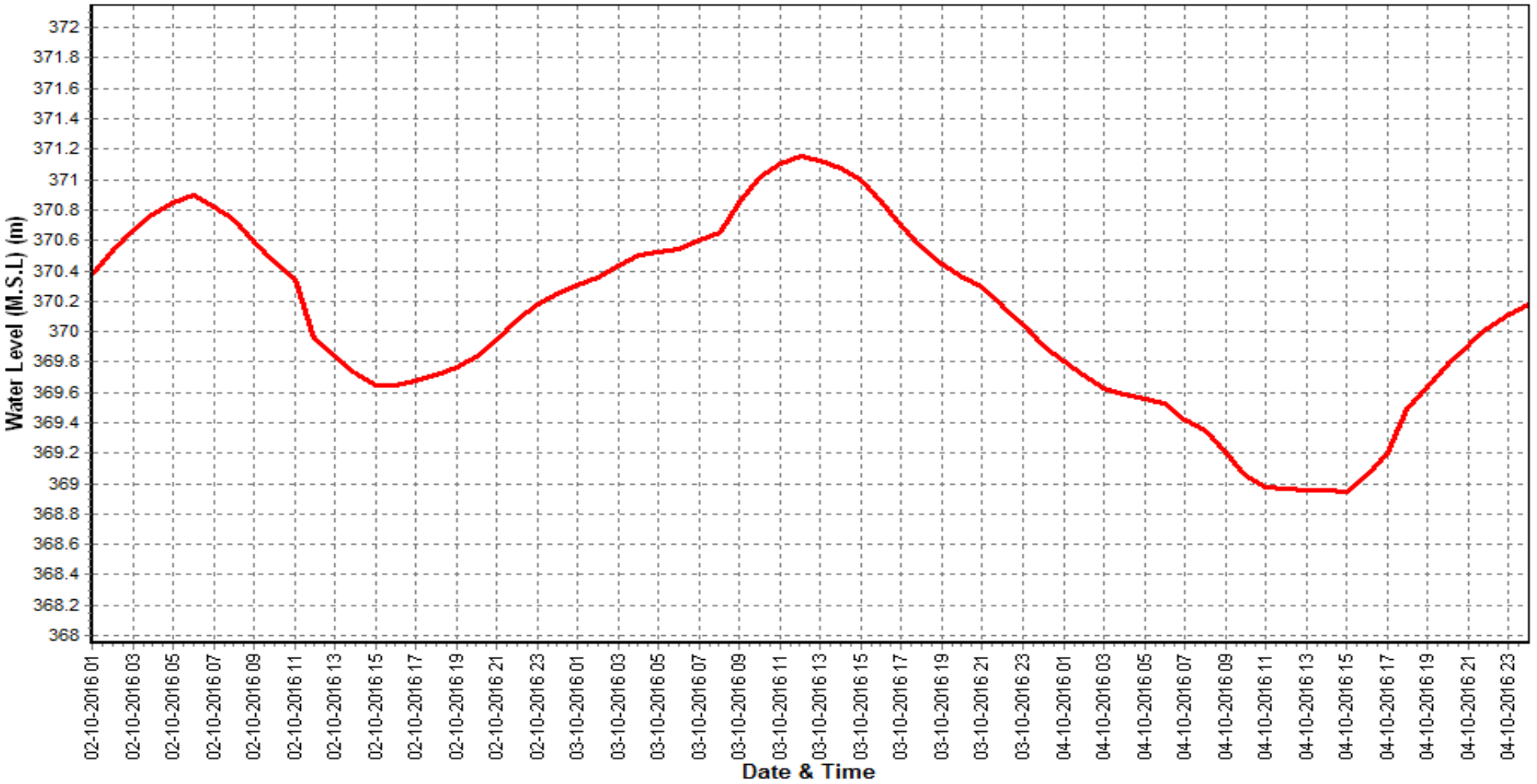


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

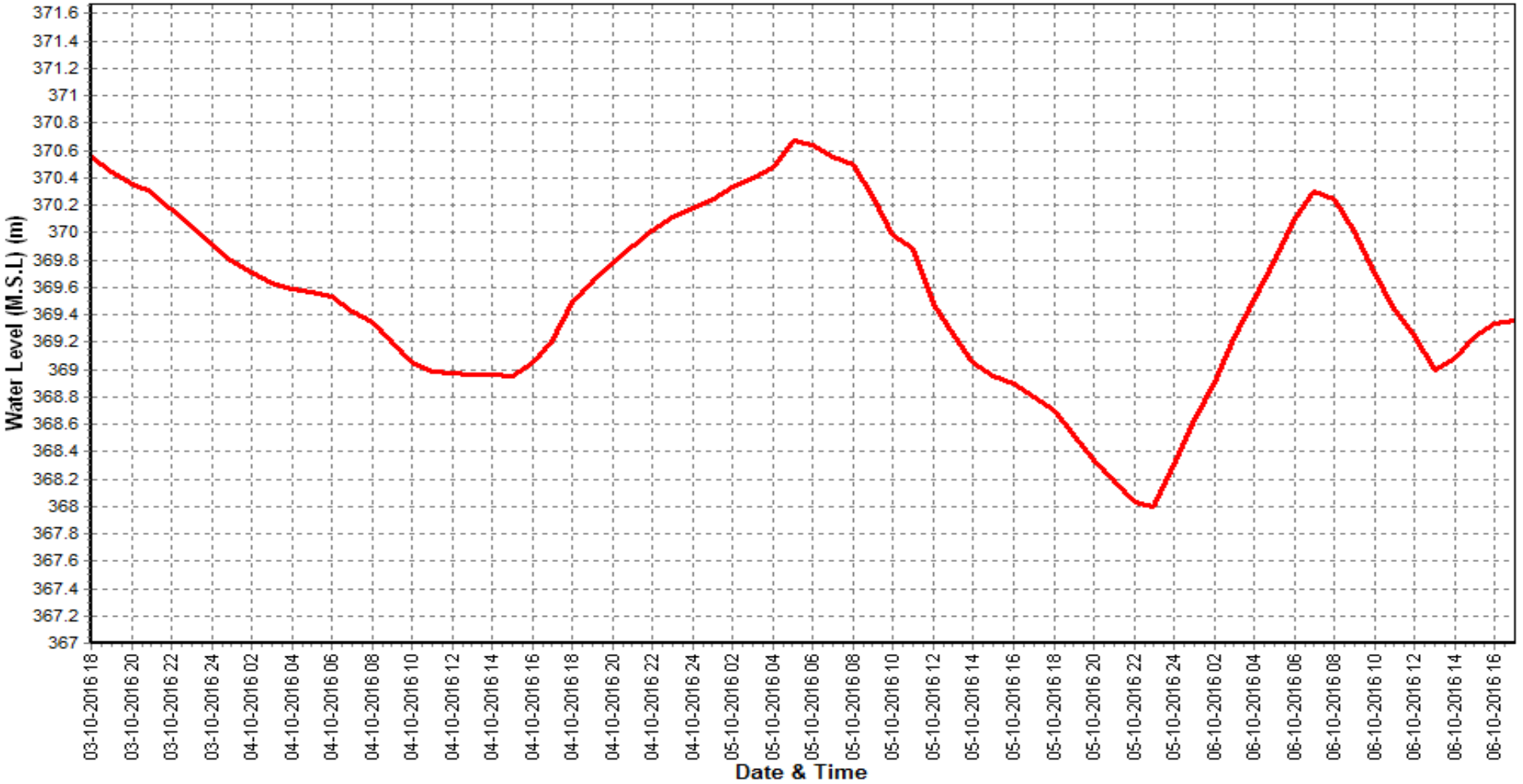


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : G.R.Bridge (AG000R6) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**Dhalegaon**	**Code**	**:**	**AG000S9**
State	:	Maharashtra	District		Parbhani
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:	-	Sub Tributary	:	
Sub-Sub Tributary	:		Local River	:	Godavari
Division	:	U Godavari Div., Hyderabad	Sub-Division	:	U Godavari SD, Aurangabad
Drainage Area	:	30840 Sq. Km.	Bank	:	Left
Latitude	:	19°12'00"	Longitude	:	76°22'00"
Zero of Gauge (m)	:	386.575 (m.s.l) 386.575 (m.s.l)	04.01.1964 25.04.1964		
		Opening Date	Closing Date		
Gauge	:	04.01.1964	**HFL During 2016-17**	**:**	**394.575**
			Corres.Discharge	**:**	**2302.991 Cumecs(Estimated)**
Discharge	:	16.08.1964	**Date& Time of**	**:**	**25.09.2016**
			Occurance	**:**	**14:00**
Sediment	:	11.07.1971			
Water Quality	:	01.07.1972			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1965-1966	4018	395.220	21.08.1965	0.265	387.175	01.05.1966
1966-1967	3590	395.088	31.07.1966	0.013	387.010	30.05.1967
1967-1968	4054	396.193	01.08.1967	0.127	386.990	11.06.1967
1968-1969	4460	396.875	09.08.1968	0.040	386.975	31.05.1969
1969-1970	6173	398.840	14.09.1969	0.271	386.970	02.06.1969
1970-1971	3043	394.400	22.08.1970	0.392	387.090	16.05.1971
1971-1972	3082	394.935	02.10.1971	0.090	387.150	01.06.1971
1972-1973	776.5	390.618	24.08.1972	0.000	386.895	14.06.1972
1973-1974	2609	394.060	03.07.1973	0.000	386.900	02.06.1973
1974-1975	1252	391.310	16.10.1974	0.180	387.120	29.05.1975
1975-1976	3209	394.920	24.09.1975	0.230	387.225	25.05.1976
1976-1977	4586	395.623	04.08.1976	0.340	387.240	02.06.1976
1977-1978	1071	391.663	03.07.1977	1.100	387.150	09.06.1977
1978-1979	2196	393.390	15.06.1978	0.600	387.160	03.05.1979
1979-1980	2947	394.493	26.09.1979	1.150	387.190	08.06.1979
1980-1981	2535	394.030	26.08.1980	0.199	387.350	01.06.1980
1981-1982	2272	392.985	23.09.1981	2.675	387.505	22.07.1981
1982-1983	1049	391.273	11.07.1982	2.100	387.445	07.05.1983
1983-1984	4139	395.485	28.09.1983	3.736	387.540	01.06.1983
1984-1985	717.6	390.535	11.10.1984	4.500	387.265	08.03.1985
1985-1986	348.0	389.620	06.10.1985	0.500	387.065	30.05.1986

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1986-1987	809.7	390.535	18.07.1986	0.000	386.930	03.05.1987
1987-1988	677.1	390.560	06.10.1987	0.000	386.815	12.06.1987
1988-1989	2389	393.755	29.09.1988	1.059	387.240	02.06.1988
1989-1990	6732	398.065	25.07.1989	3.923	387.465	10.11.1989
1990-1991	4691	397.135	14.10.1990	3.031	387.275	25.02.1991
1991-1992	1972	392.815	01.08.1991	0.443	387.105	28.04.1992
1992-1993	2074	392.845	02.09.1992	0.000	386.680	16.05.1993
1993-1994	181.3	388.935	04.08.1993	0.000	386.725	29.06.1993
1994-1995	2196	393.555	08.09.1994	0.000	387.185	26.06.1994
1995-1996	228.9	389.060	16.09.1995	0.000		17.03.1996
1996-1997	2092	393.375	16.09.1996	0.000	387.080	01.02.1997
1997-1998	86.59	388.110	25.09.1997	0.000		08.03.1998
1998-1999	4467	396.875	16.10.1998	0.000	387.015	16.07.1998
1999-2000	1257	392.100	14.10.1999	0.000	387.025	03.05.2000
2000-2001	3328	395.835	25.08.2000	0.000	387.005	25.04.2001
2001-2002	638.4	390.225	02.10.2001	0.000		14.02.2002
2002-2003	519.7	389.715	06.09.2002	0.000		25.01.2003
2003-2004	287.7	389.210	08.08.2003	0.000	386.715	09.09.2003
2004-2005	135.4	388.575	24.09.2004	0.000		25.01.2005
2005-2006	4886	397.125	22.09.2005	0.000		03.05.2006
2006-2007	7652	399.855	13.08.2006	0.000		23.06.2006
2007-2008	1630	392.625	22.09.2007	0.000		24.03.2008
2008-2009	2976	395.505	21.09.2008	0.000	386.825	25.01.2009
2009-2010	320.5	389.485	25.08.2009	0.000		24.01.2010
2010-2011	744.3	390.925	04.07.2010	0.000	386.675	25.01.2011
2011-2012	348.4	389.575	26.08.2011	0.000		26.01.2012
2012-2013	0.000		09.01.2013	0.000	386.675	13.08.2012
2013-2014	0.000	386.815	15.08.2013	0.000	386.695	05.09.2013
2014-2015	0.000	386.675	04.10.2014	0.000	386.575	25.01.2015
2015-2016	0.000	386.575	15.10.2015	0.000	386.575	25.02.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000		0.000	386.945	0.000	386.605	0.000	388.995	201.8	387.095	0.000
2		0.000		0.000	386.825	0.000	386.605	0.000	389.925	425.0 *	387.085	0.000
3		0.000		0.000	386.735	0.000	386.605	0.000	391.675	907.5	387.075	0.000
4		0.000		0.000	386.705	0.000	386.595	0.000	390.780	690.5	387.055	0.000
5		0.000		0.000	386.685	0.000	386.595	0.000	388.905	195.7	387.025	0.000
6		0.000		0.000	386.705	0.000	386.595	0.000	388.900	198.8	387.005	0.000
7		0.000		0.000	386.705	0.000	386.595	0.000	388.675	186.6	386.975	0.000
8		0.000		0.000	386.695	0.000	386.595	0.000	389.010	206.1	386.955	0.000
9		0.000		0.000	386.695	0.000	386.595	0.000	387.895	49.83 *	386.935	0.000
10		0.000		0.000	386.685	0.000	386.595	0.000	388.015	0.000	386.915	0.000
11		0.000		0.000	386.675	0.000	386.595	0.000	388.815	180.7 *	386.895	0.000
12		0.000		0.000	386.675	0.000	386.595	0.000	388.785	175.3 *	386.895	0.000
13		0.000		0.000	386.675	0.000	386.595	0.000	388.580	141.0	386.885	0.000
14		0.000		0.000	386.665	0.000	386.675	0.000	388.400	96.75	386.875	0.000
15		0.000		0.000	386.655	0.000	386.675	0.000	387.795	0.000	386.875	0.000
16		0.000		0.000	386.645	0.000	387.495	0.000	387.935	0.000	386.875	0.000
17		0.000		0.000	386.645	0.000	387.575	0.000	388.375	0.000	386.865	0.000
18		0.000		0.000	386.635	0.000	387.535	0.000	388.825	0.000	386.855	0.000
19		0.000		0.000	386.625	0.000	387.435	0.000	387.955	0.000	386.845	0.000
20		0.000		0.000	386.625	0.000	387.365	0.000	387.815	0.000	386.845	0.000
21		0.000		0.000	386.615	0.000	387.345	0.000	388.715	166.2	386.835	0.000
22		0.000		0.000	386.615	0.000	387.765	0.000	387.775	0.000	386.825	0.000
23		0.000		0.000	386.615	0.000	387.735	0.000	387.975	0.000	386.815	0.000
24		0.000		0.000	386.615	0.000	389.875	418.4	388.035	0.000	386.805	0.000
25		0.000	386.825	0.000	386.615	0.000	394.025	2022	387.585	0.000	386.795	0.000
26		0.000	386.945	0.000	386.615	0.000	390.575	607.8 *	387.385	0.000	386.785	0.000
27		0.000	386.815	0.000	386.605	0.000	389.200	277.8	387.235	0.000	386.775	0.000
28		0.000	386.725	0.000	386.605	0.000	390.010	470.7	387.175	0.000	386.765	0.000
29		0.000	386.695	0.000	386.605	0.000	387.875	47.79 *	387.125	0.000	386.755	0.000
30		0.000	386.685	0.000	386.605	0.000	389.725	361.3	387.115	0.000	386.745	0.000
31			386.675	0.000	386.605	0.000			387.115	0.000		
Ten-Daily Mean												
I Ten-Daily		0.000		0.000	386.738	0.000	386.598	0.000	389.277	306.2	387.012	0.000
II Ten-Daily		0.000		0.000	386.652	0.000	387.054	0.000	388.328	59.38	386.871	0.000
III Ten-Daily		0.000	386.766	0.000	386.610	0.000	389.413	420.6	387.567	15.11	386.790	0.000
Monthly												
Min.		0.000	386.675	0.000	386.605	0.000	386.595	0.000	387.115	0.000	386.745	0.000
Max.		0.000	386.945	0.000	386.945	0.000	394.025	2022	391.675	907.5	387.095	0.000
Mean		0	386.766	0	386.665	0	387.688	140.2	388.364	123.3	386.891	0

Annual Runoff in MCM = 694 Annual Runoff in mm = 22

Peak Observed Discharge = 2022 cumecs on 25-09-2016 Corres. Water Level :394.025 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	386.735	0.000		0.000		0.000		0.000		0.000		0.000
2	386.735	0.000		0.000		0.000		0.000		0.000		0.000
3	386.725	0.000		0.000		0.000		0.000		0.000		0.000
4	386.715	0.000		0.000		0.000		0.000		0.000		0.000
5	386.705	0.000		0.000		0.000		0.000		0.000		0.000
6	386.695	0.000		0.000		0.000		0.000		0.000		0.000
7	386.685	0.000		0.000		0.000		0.000		0.000		0.000
8	386.675	0.000		0.000		0.000		0.000		0.000		0.000
9	386.675	0.000		0.000		0.000		0.000		0.000		0.000
10	386.675	0.000		0.000		0.000		0.000		0.000		0.000
11	386.675	0.000		0.000		0.000		0.000		0.000		0.000
12	386.675	0.000		0.000		0.000		0.000		0.000		0.000
13	386.665	0.000		0.000		0.000		0.000		0.000		0.000
14	386.665	0.000		0.000		0.000		0.000		0.000		0.000
15	386.655	0.000		0.000		0.000		0.000		0.000		0.000
16	386.655	0.000		0.000		0.000		0.000		0.000		0.000
17	386.645	0.000		0.000		0.000		0.000		0.000		0.000
18	386.645	0.000		0.000		0.000		0.000		0.000		0.000
19	386.635	0.000		0.000		0.000		0.000		0.000		0.000
20	386.625	0.000		0.000		0.000		0.000		0.000		0.000
21		0.000		0.000		0.000		0.000		0.000		0.000
22		0.000		0.000		0.000		0.000		0.000		0.000
23		0.000		0.000		0.000		0.000		0.000		0.000
24		0.000		0.000		0.000		0.000		0.000		0.000
25		0.000		0.000		0.000		0.000		0.000		0.000
26		0.000		0.000		0.000		0.000		0.000		0.000
27		0.000		0.000		0.000		0.000		0.000		0.000
28		0.000		0.000		0.000		0.000		0.000		0.000
29		0.000		0.000				0.000		0.000		0.000
30		0.000		0.000				0.000		0.000		0.000
31		0.000		0.000				0.000				0.000
Ten-Daily Me												
I Ten-Daily	386.702	0.000		0.000		0.000		0.000		0.000		0.000
II Ten-Daily	386.654	0.000		0.000		0.000		0.000		0.000		0.000
III Ten-Daily		0.000		0.000		0.000		0.000		0.000		0.000
Monthly												
Min.	386.625	0.000		0.000		0.000		0.000		0.000		0.000
Max.	386.735	0.000		0.000		0.000		0.000		0.000		0.000
Mean	386.678	0		0		0		0		0		0

Peak Computed Discharge = 607.8 cumecs on 26-09-2016 **Corres. Water Level :390.575 m**

Lowest Computed Discharge = 47.79 cumecs on 29-09-2016 **Corres. Water Level :387.875 m**

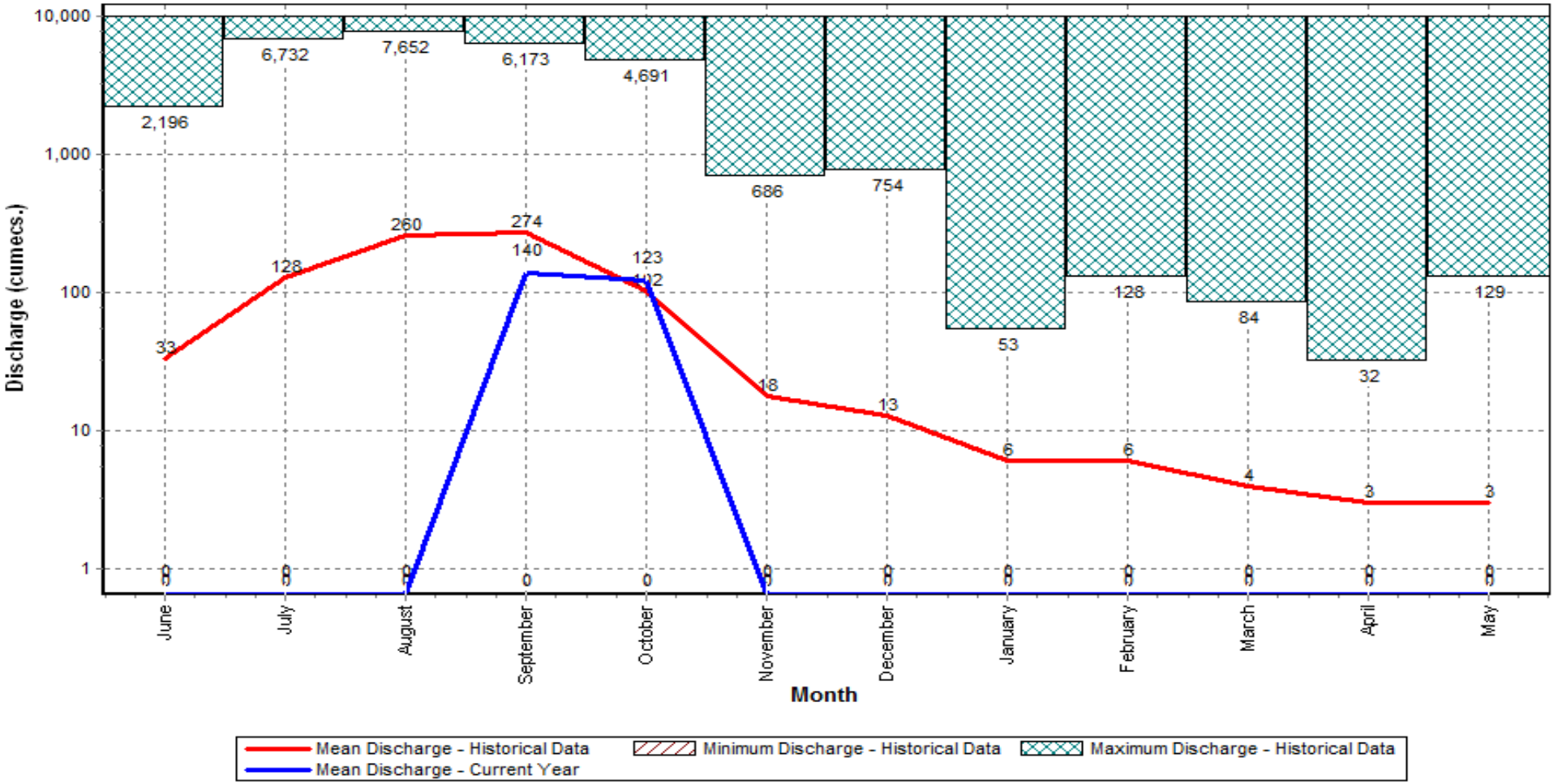
Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Dhalegaon (AG000S9) | **Data considered : 1965-2017** | **Division : U Godavari Div., Hyderabad**

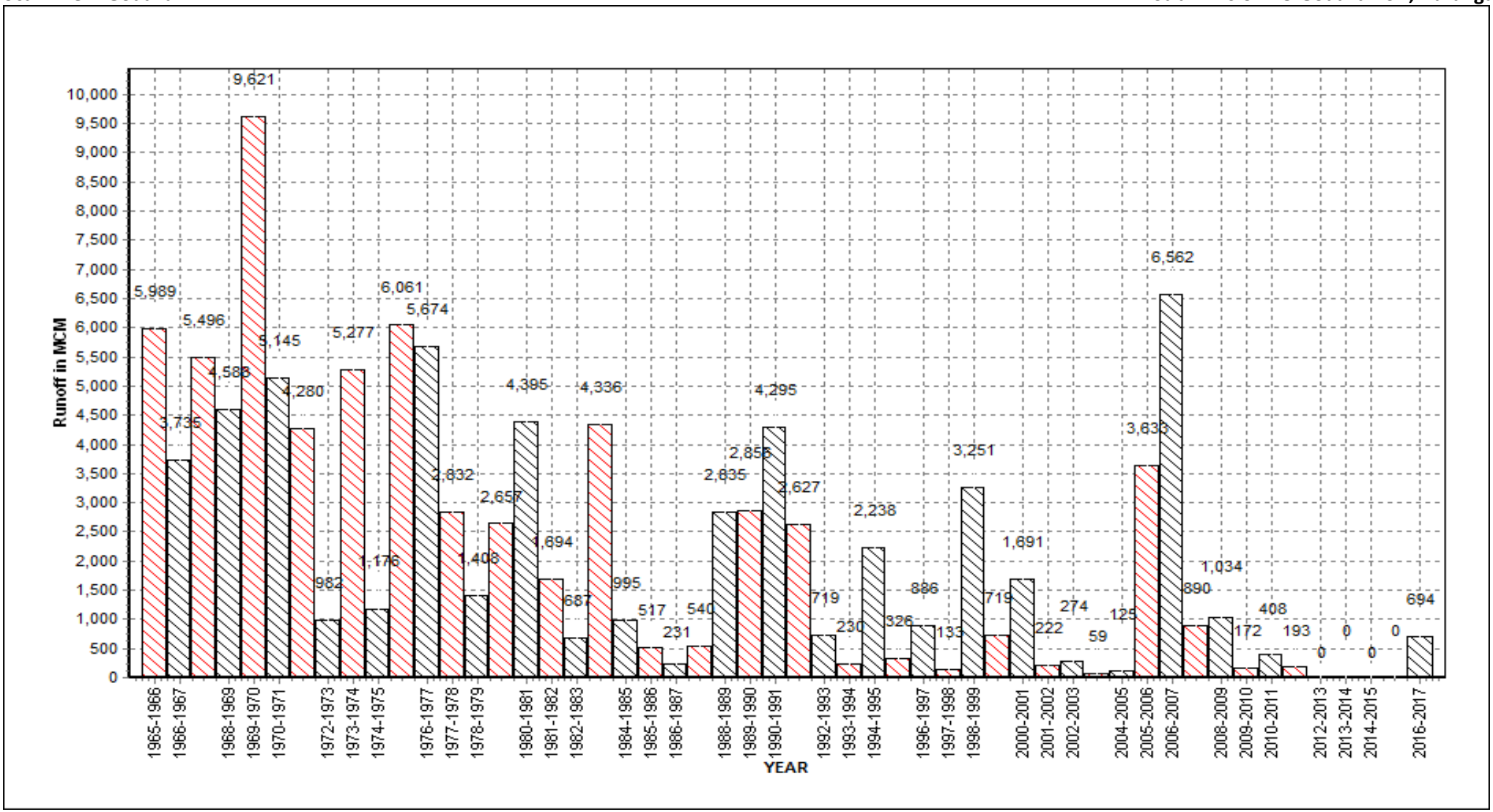
Local River : Godavari | **Sub-Division : U Godavari SD, Aurangabad**



Annual Runoff Values for the period: 1965 - 2017

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**



Note: Missing values have not been considered while arriving at Annual Runoff

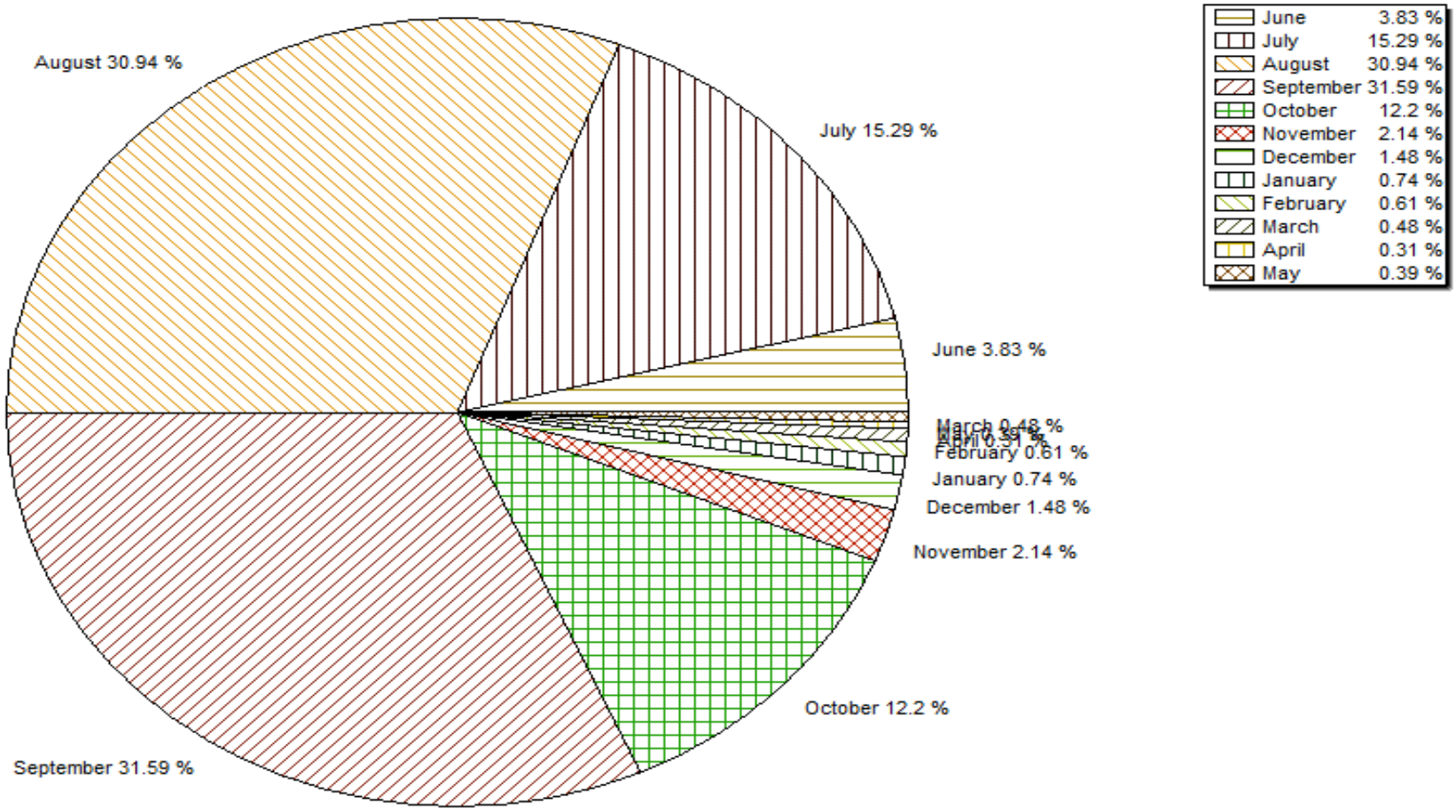
Monthly Average Runoff based on period : 1965-2016

Station Name : Dhalegaon (AG000S9)

Local River : Godavari

Division : U Godavari Div., Hyderabad

Sub-Division : U Godavari SD, Aurangabad



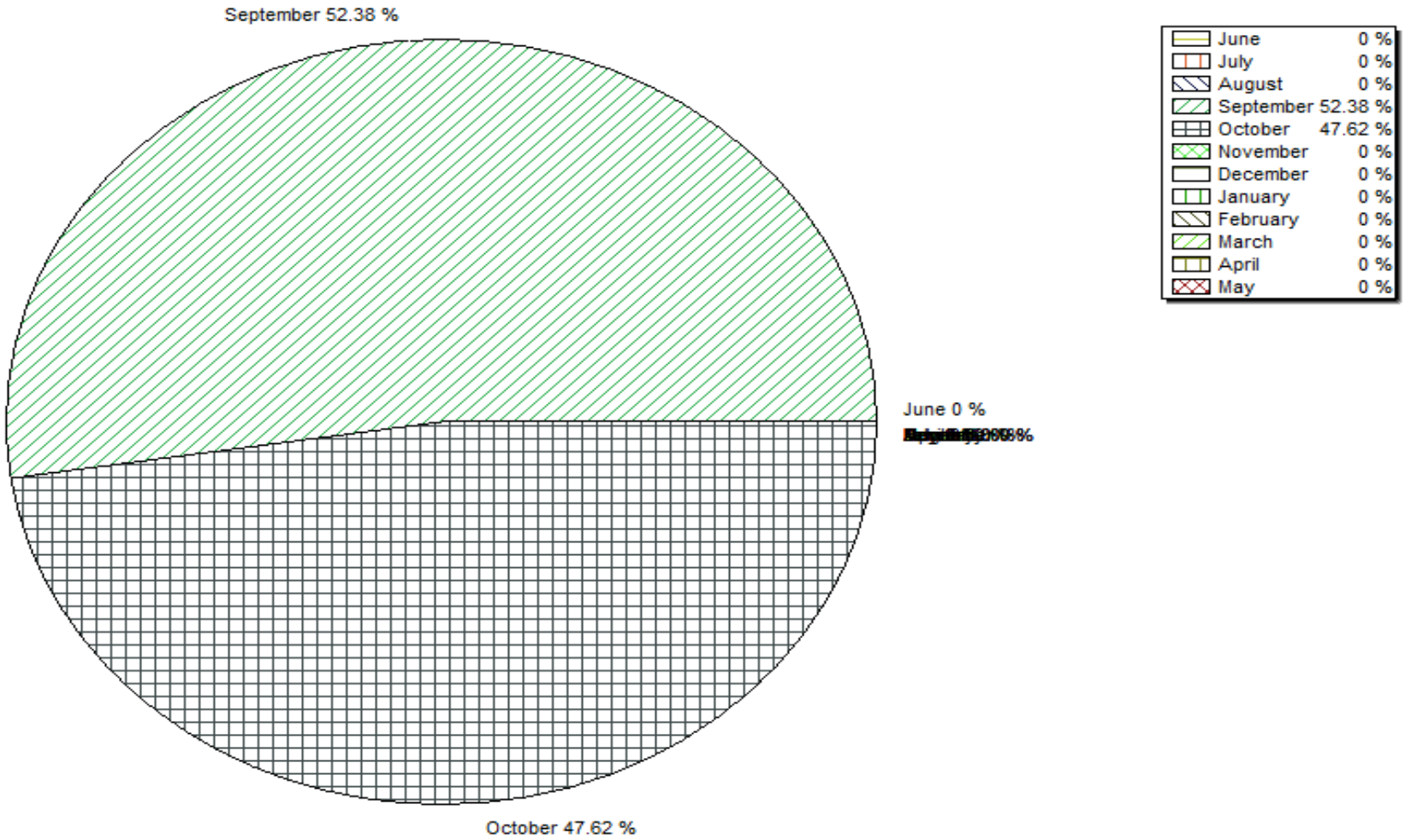
Monthly Runoff for the Year : 2016-2017

Station Name : Dhalegaon (AG000S9)

Local River : Godavari

Division : U Godavari Div., Hyderabad

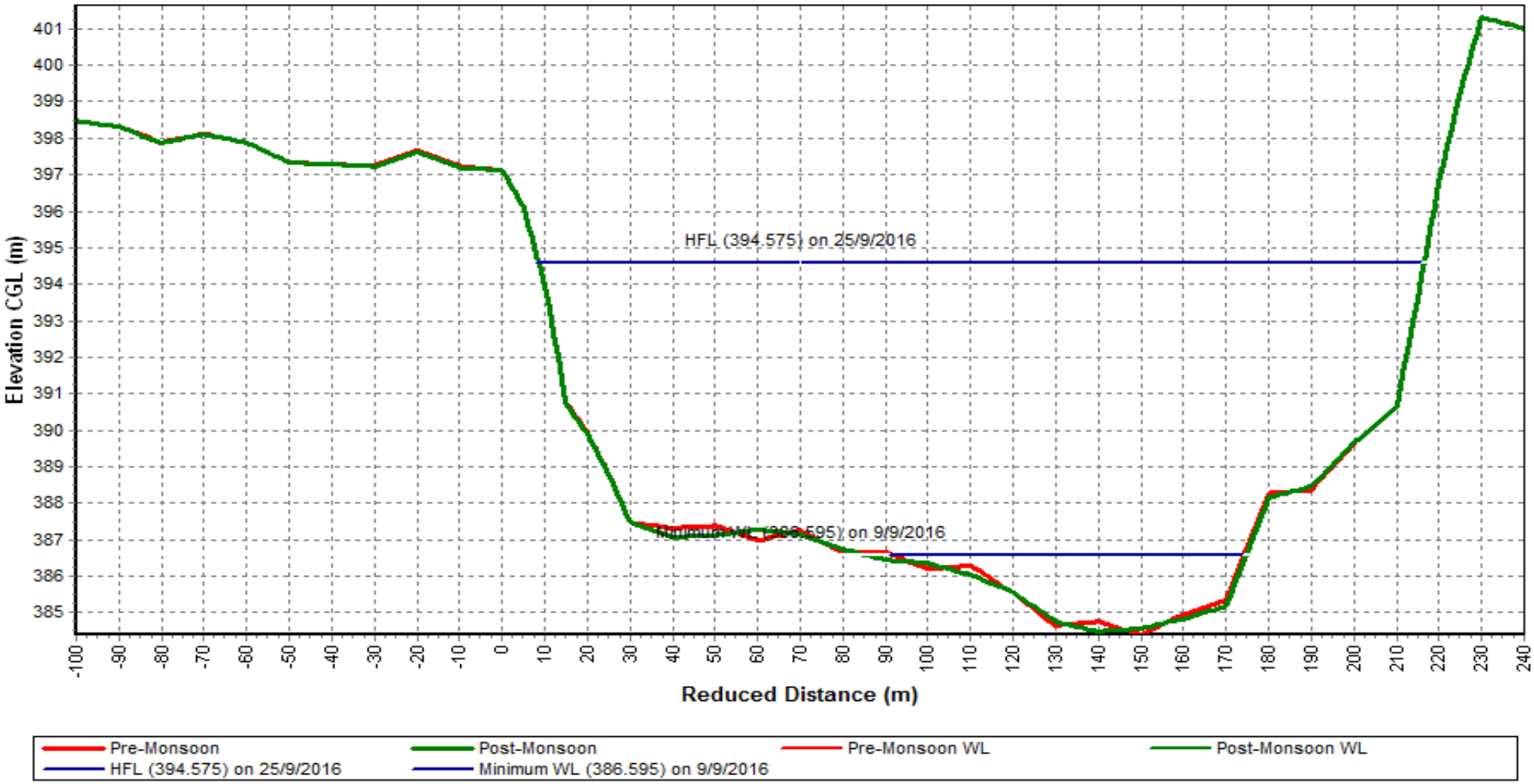
Sub-Division : U Godavari SD, Aurangabad



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

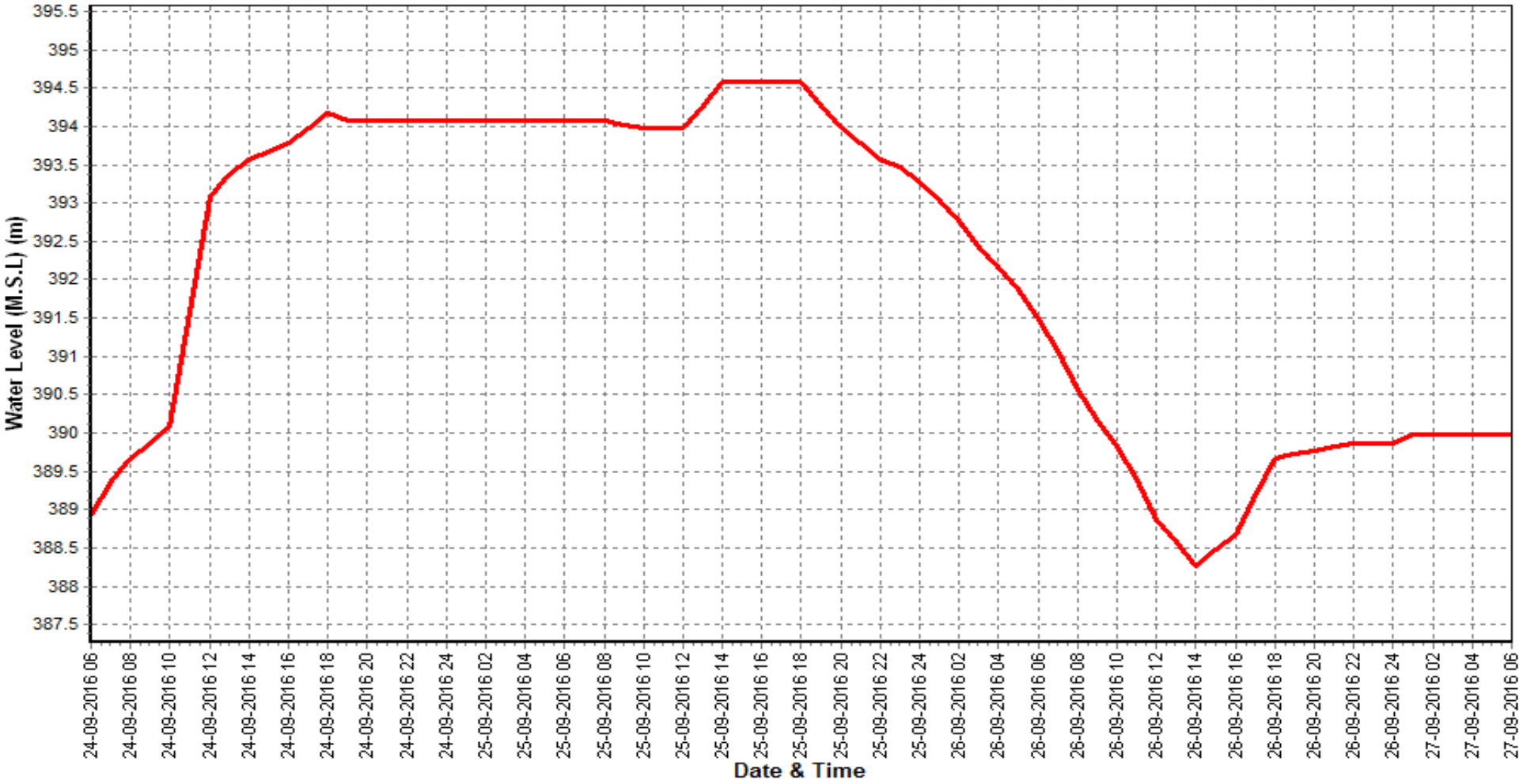
Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**

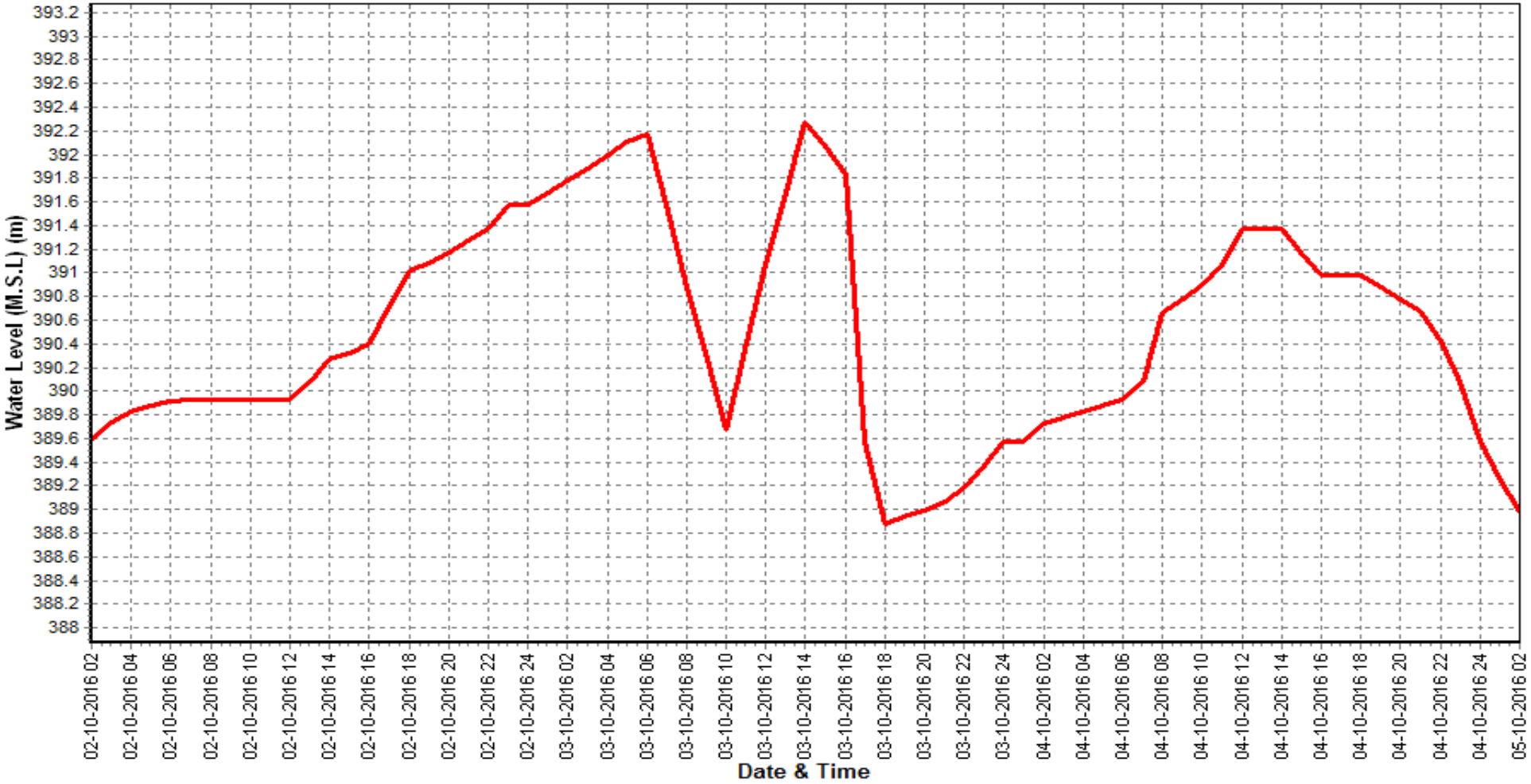


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**

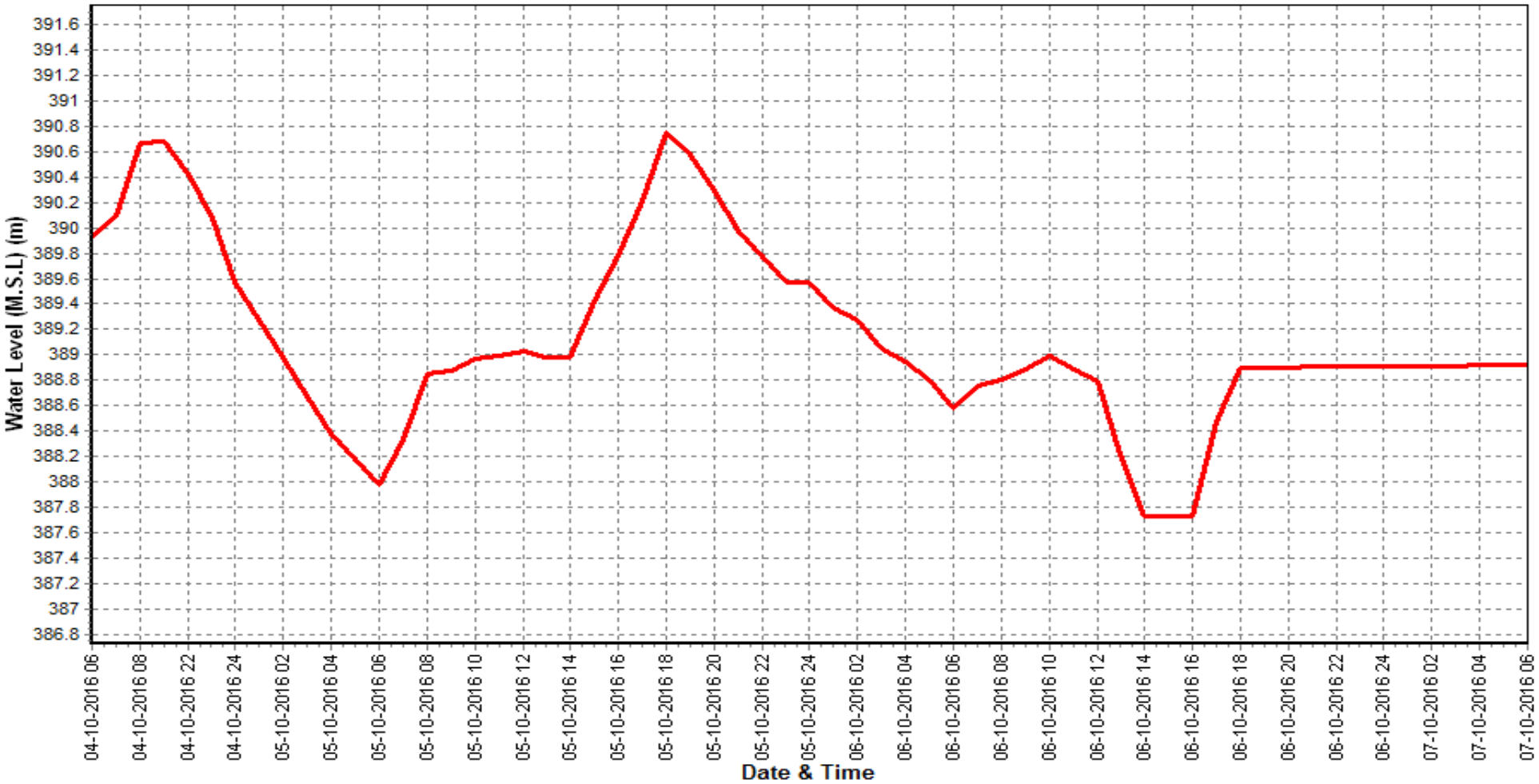


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Dhalegaon (AG000S9) **Division : U Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : U Godavari SD, Aurangabad**



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**: Pachegaon**		**Code**	**: AGU00D3**	
State	: Maharashtra		District	Ahmednagar	
Basin	: Godavari		Independent River	: Godavari	
Tributary	: Pravara		Sub Tributary	:	
Sub-Sub Tributary	:		Local River	: Pravara	
Division	: U Godavari Div., Hyderabad		Sub-Division	: U Godavari SD, Aurangabad	
Drainage Area	: 5800 Sq. Km.		Bank	:	
Latitude	: 19°32'00"		Longitude	: 74°52'00"	
Zero of Gauge (m)	: 470 (m.s.l)		01.06.2003		
	470 (m.s.l)		07.12.1978	- 31.05.2003	
	Opening Date		Closing Date		
Gauge	: 07.12.1978		**HFL During 2016-17**	**: 474.8**	
			Corres.Discharge	**: 689.421 Cumecs(Estimated)**	
Discharge	: 23.07.1983		**Date& Time of Occurance**	**: 11.08.2016 : 22:00**	
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
1983-1984	309.2	478.925	28.09.1983	0.000		25.03.1984
1984-1985	144.3	478.130	06.08.1984	0.000		25.01.1985
1985-1986	29.51	477.340	06.08.1985	0.000		25.01.1986
1986-1987	76.50	477.765	11.08.1986	0.000		25.01.1987
1987-1988	44.88	477.675	18.08.1987	0.000		26.01.1988
1988-1989	315.0	479.100	01.10.1988	0.000		25.01.1989
1989-1990	197.7	478.405	28.07.1989	0.000		25.01.1990
1990-1991	1234	481.450	12.10.1990	0.000	476.110	25.01.1991
1991-1992	606.4	479.950	28.07.1991	0.000	476.310	27.01.1992
1992-1993	68.50	477.320	10.09.1992	0.000		25.01.1993
1993-1994	144.5	478.100	29.09.1993	0.000	476.370	25.01.1994
1994-1995	571.7	479.910	29.08.1994	0.000	476.160	25.01.1995
1995-1996	34.84	477.120	23.07.1995	0.000	475.630	26.01.1996
1996-1997	344.6	478.600	22.10.1996	0.000	476.070	25.03.1997
1997-1998	1363	481.580	26.08.1997	0.000		25.04.1998
1998-1999	406.7	479.550	18.09.1998	0.000	475.950	06.03.1999
1999-2000	191.8	477.970	14.09.1999	0.000	476.480	29.01.2000
2000-2001	187.1	478.110	25.08.2000	0.000		25.01.2001
2001-2002	287.3	478.610	17.08.2001	0.000	475.900	25.01.2002
2002-2003	98.15	477.295	14.08.2002	0.000		25.01.2003
2003-2004	241.4	474.020	29.07.2003	0.000		26.01.2004

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2004-2005	386.8	474.395	04.08.2004	0.000		25.01.2005
2005-2006	1198	476.715	04.08.2005	0.000		25.01.2006
2006-2007	3932	481.400	09.08.2006	0.000	475.500	25.01.2007
2007-2008	750.1	474.900	20.09.2007	0.000		23.01.2008
2008-2009	1960	477.050	21.09.2008	0.000		25.01.2009
2009-2010	139.5	472.230	24.08.2009	0.000		24.01.2010
2010-2011	248.8	473.535	01.09.2010	0.000	471.130	17.01.2011
2011-2012	407.6	473.900	30.08.2011	0.000	470.000	26.01.2012
2012-2013	228.9	473.420	30.11.2012	0.000		21.09.2012
2013-2014	292.0	473.050	04.08.2013	0.000	470.680	03.09.2013
2014-2015	424.9	473.660	15.12.2014	0.000	471.100	29.01.2015
2015-2016	150.6	472.500	03.11.2015	0.000	470.000	26.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000		0.000		0.000	470.980	0.000	472.330	70.56	1.010	0.000
2		0.000		0.000		0.000	470.980	0.000	472.140	55.25 *	1.010	0.000
3		0.000		0.000		0.000	470.980	0.000	473.275	198.1	1.010	0.000
4		0.000		0.000		0.000	470.980	0.000	473.910	363.6	1.010	0.000
5	472.600	121.0		0.000	472.600	121.0	470.980	0.000	472.585	85.93	1.010	0.000
6	472.180	63.02		0.000	472.180	63.02	470.970	0.000	472.350	72.98	1.010	0.000
7	471.580	13.54 *		0.000	471.580	13.54 *	470.960	0.000	472.315	65.33	1.010	0.000
8	472.740	164.3		0.000	472.740	164.3	470.850	0.000	472.340	68.36	1.020	0.000
9	472.800	167.7		0.000	472.800	167.7	470.380	0.000	472.540	103.6 *	1.020	0.000
10	473.130	235.5		0.000	473.130	235.5		0.000	472.410	86.68	1.020	0.000
11	473.615	352.8		0.000	473.615	352.8		0.000	471.900	33.74 *	1.020	0.000
12	474.420	550.7		0.000	474.420	550.7		0.000	471.620	15.55 *	1.020	0.000
13	472.960	184.5		0.000	472.960	184.5		0.000	471.630	16.07 #	1.010	0.000
14	472.200	61.50 *		0.000	472.200	61.50 *		0.000	471.650	0.000	1.010	0.000
15	471.960	38.60 *		0.000	471.960	38.60 *		0.000	472.175	55.92	1.000	0.000
16	471.690	18.28		0.000	471.690	18.28		0.000	471.950	37.77 *	1.000	0.000
17	471.600	15.66		0.000	471.600	15.66		0.000	471.900	32.18	1.000	0.000
18	471.540	11.57		0.000	471.540	11.57	472.560	106.5 *	471.800	0.000	1.000	0.000
19	471.160	0.970		0.000	471.160	0.970	471.980	46.67	471.690	0.000	1.000	0.000
20	471.150	0.872		0.000	471.150	0.872	471.480	9.156 #	471.600	0.000	0.990	0.000
21	471.060	0.000		0.000	471.060	0.000	471.300	3.490 #	471.520	0.000	0.990	0.000
22	471.020	0.000		0.000	471.020	0.000	471.180	1.244 #	471.440	0.000	0.990	0.000
23	471.010	0.000		0.000	471.010	0.000	471.270	0.000	471.360	0.000	0.990	0.000
24	471.000	0.000		0.000	471.000	0.000	472.170	57.13	471.280	0.000	0.990	0.000
25	471.000	0.000		0.000	471.000	0.000	472.780	140.4 *	471.200	0.000	0.990	0.000
26	470.900	0.000		0.000	470.900	0.000	472.460	103.7	471.150	0.000	0.990	0.000
27	470.900	0.000		0.000	470.900	0.000	472.380	78.69	471.080	0.000	0.990	0.000
28	470.900	0.000		0.000	470.900	0.000	472.460	88.54	471.050	0.000	0.980	0.000
29	470.900	0.000		0.000	470.900	0.000	471.730	21.06	471.030	0.000	0.980	0.000
30	470.900	0.000		0.000	470.900	0.000	471.880	33.19	471.020	0.000	0.980	0.000
31				0.000	470.900	0.000			471.010	0.000		
Ten-Daily Mean												
I Ten-Daily	472.505	76.51		0.000	472.505	76.51	470.896	0.000	472.619	117.0	1.013	0.000
II Ten-Daily	472.229	123.5		0.000	472.229	123.5	472.007	16.23	471.792	19.12	1.005	0.000
III Ten-Daily	470.959	0.000		0.000	470.954	0.000	471.961	52.74	471.195	0.000	0.987	0.000
Monthly												
Min.	470.900	0.000		0.000	470.900	0.000	470.380	0.000	471.010	0.000	0.980	0.000
Max.	474.420	550.7		0.000	474.420	550.7	472.780	140.4	473.910	363.6	1.020	0.000
Mean	471.804	66.68		0	471.771	64.53	471.531	22.99	471.847	43.93	1.002	0

Annual Runoff in MCM = 531 Annual Runoff in mm = 91

Peak Observed Discharge = 550.7 cumecs on 12-06-2016 Corres. Water Level :474.42 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	470.970	0.000		0.000		0.000	471.280	0.000	470.450	0.000		0.000
2	470.970	0.000		0.000		0.000	471.260	0.000	470.400	0.000		0.000
3	470.970	0.000		0.000		0.000	471.250	0.000	470.250	0.000		0.000
4	470.970	0.000		0.000		0.000	471.240	0.000	470.200	0.000		0.000
5	470.970	0.000		0.000		0.000	471.220	0.000	470.150	0.000		0.000
6	470.970	0.000		0.000		0.000	471.200	0.000		0.000		0.000
7	470.970	0.000		0.000		0.000	471.180	0.000		0.000		0.000
8	470.970	0.000		0.000		0.000	471.160	0.000		0.000		0.000
9	470.970	0.000		0.000		0.000	471.140	0.000		0.000		0.000
10	470.970	0.000		0.000		0.000	471.100	0.000		0.000		0.000
11	470.960	0.000		0.000		0.000	471.020	0.000		0.000		0.000
12	470.960	0.000		0.000		0.000	471.010	0.000		0.000		0.000
13	470.960	0.000		0.000		0.000	471.010	0.000		0.000		0.000
14	470.960	0.000		0.000	471.140	0.000	471.000	0.000		0.000		0.000
15	470.960	0.000		0.000	471.410	6.617 #	470.950	0.000		0.000		0.000
16	470.960	0.000		0.000	471.280	2.897	470.900	0.000		0.000		0.000
17	470.960	0.000		0.000	471.210	1.724	470.700	0.000		0.000		0.000
18	470.960	0.000		0.000	471.490	9.554 #	470.600	0.000		0.000		0.000
19	470.960	0.000		0.000	471.780	25.05 *	470.600	0.000		0.000		0.000
20	470.960	0.000		0.000	471.700	20.00 #	470.600	0.000		0.000		0.000
21	470.960	0.000		0.000	471.750	23.09 #	470.600	0.000		0.000		0.000
22	470.960	0.000		0.000	472.050	0.000	470.600	0.000		0.000		0.000
23	470.960	0.000		0.000	471.960	0.000	470.600	0.000		0.000		0.000
24	470.960	0.000		0.000	471.790	0.000	470.590	0.000		0.000		0.000
25	470.960	0.000		0.000	471.650	0.000	470.590	0.000		0.000		0.000
26	470.960	0.000		0.000	471.500	0.000	470.590	0.000		0.000		0.000
27	470.960	0.000		0.000	471.400	0.000	470.570	0.000		0.000		0.000
28	470.960	0.000		0.000	471.340	0.000	470.570	0.000		0.000		0.000
29	470.910	0.000		0.000			470.550	0.000		0.000		0.000
30	470.760	0.000		0.000			470.520	0.000		0.000		0.000
31	470.500	0.000		0.000			470.500	0.000				0.000
Ten-Daily Me												
I Ten-Daily	470.970	0.000		0.000		0.000	471.203	0.000	470.290	0.000		0.000
II Ten-Daily	470.960	0.000		0.000	471.430	6.584	470.839	0.000		0.000		0.000
III Ten-Daily	470.895	0.000		0.000	471.680	2.886	470.571	0.000		0.000		0.000
Monthly												
Min.	470.500	0.000		0.000	471.140	0.000	470.500	0.000	470.150	0.000		0.000
Max.	470.970	0.000		0.000	472.050	25.05	471.280	0.000	470.450	0.000		0.000
Mean	470.940	0		0	471.563	3.176	470.861	0	470.290	0		0

Peak Computed Discharge = 140.4 cumecs on 25-09-2016 Corres. Water Level :472.78 m

Lowest Computed Discharge = 13.54 cumecs on 07-06-2016 Corres. Water Level :471.58 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

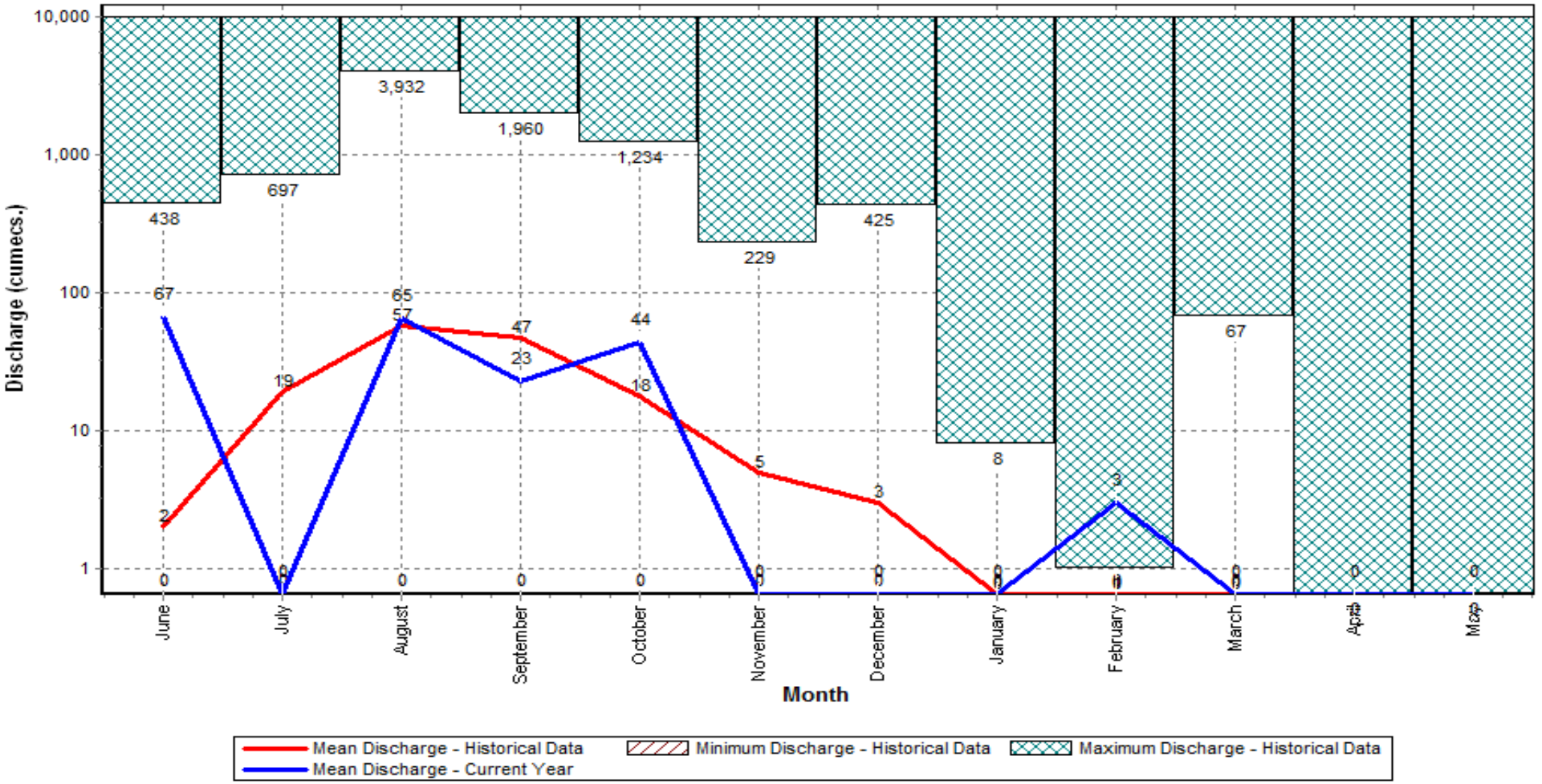
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : Pachegaon (AGU00D3) | **Data considered : 1983-2017** | **Division : U Godavari Div., Hyderabad**

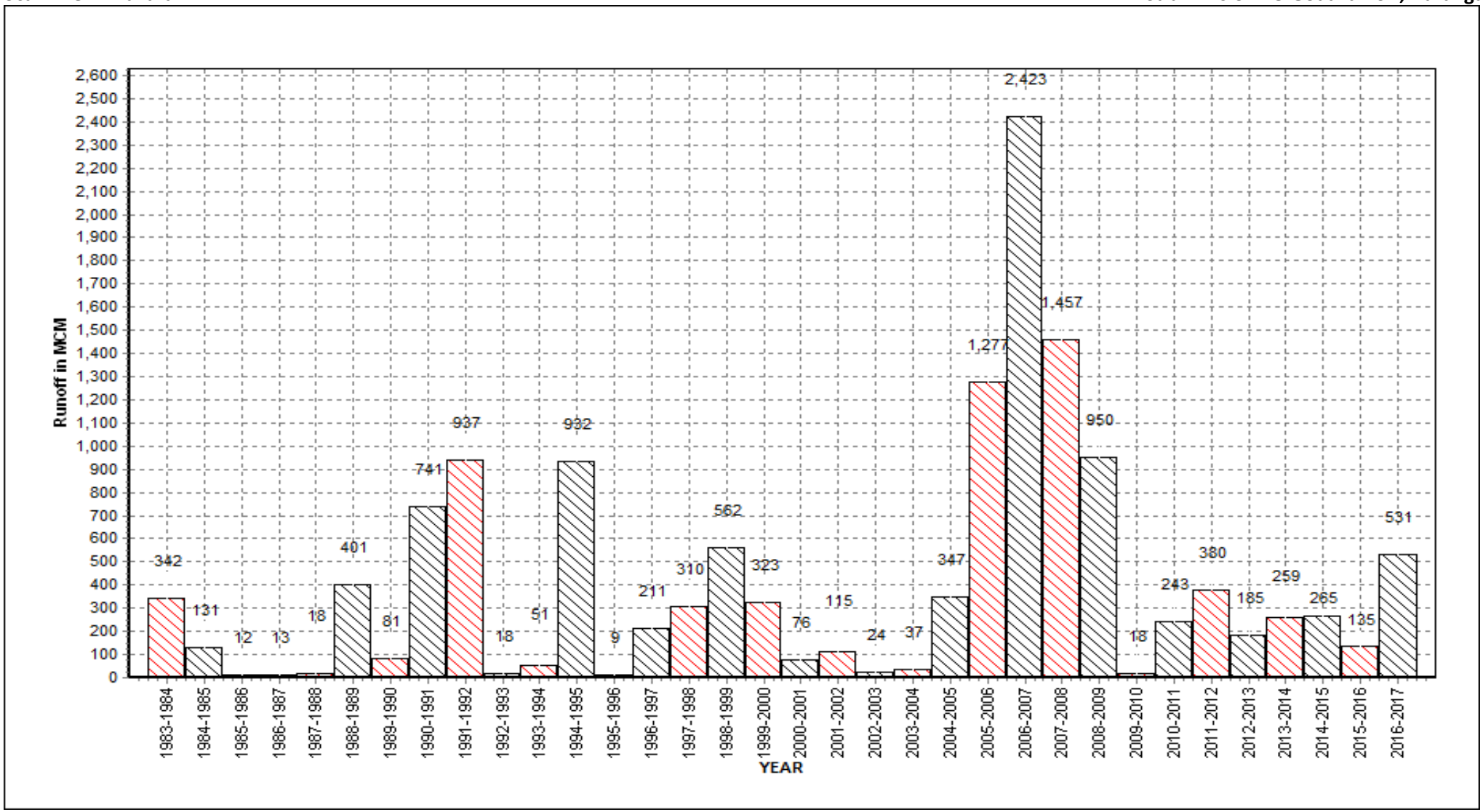
Local River : Pravara | **Sub-Division : U Godavari SD, Aurangabad**



Annual Runoff Values for the period: 1983 - 2017

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**



Note: Missing values have not been considered while arriving at Annual Runoff

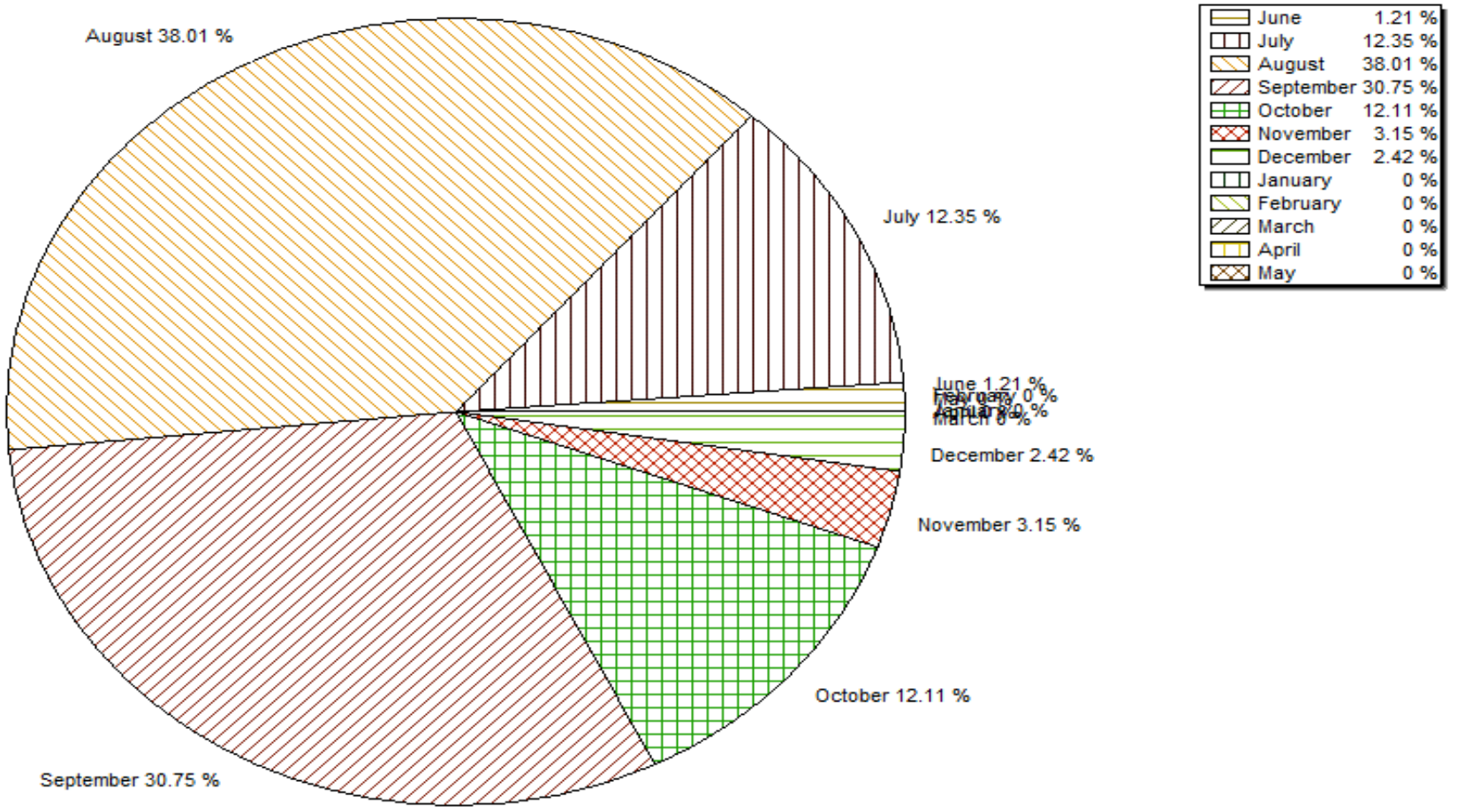
Monthly Average Runoff based on period : 1983-2016

Station Name : Pachegaon (AGU00D3)

Local River : Pravara

Division : U Godavari Div., Hyderabad

Sub-Division : U Godavari SD, Aurangabad



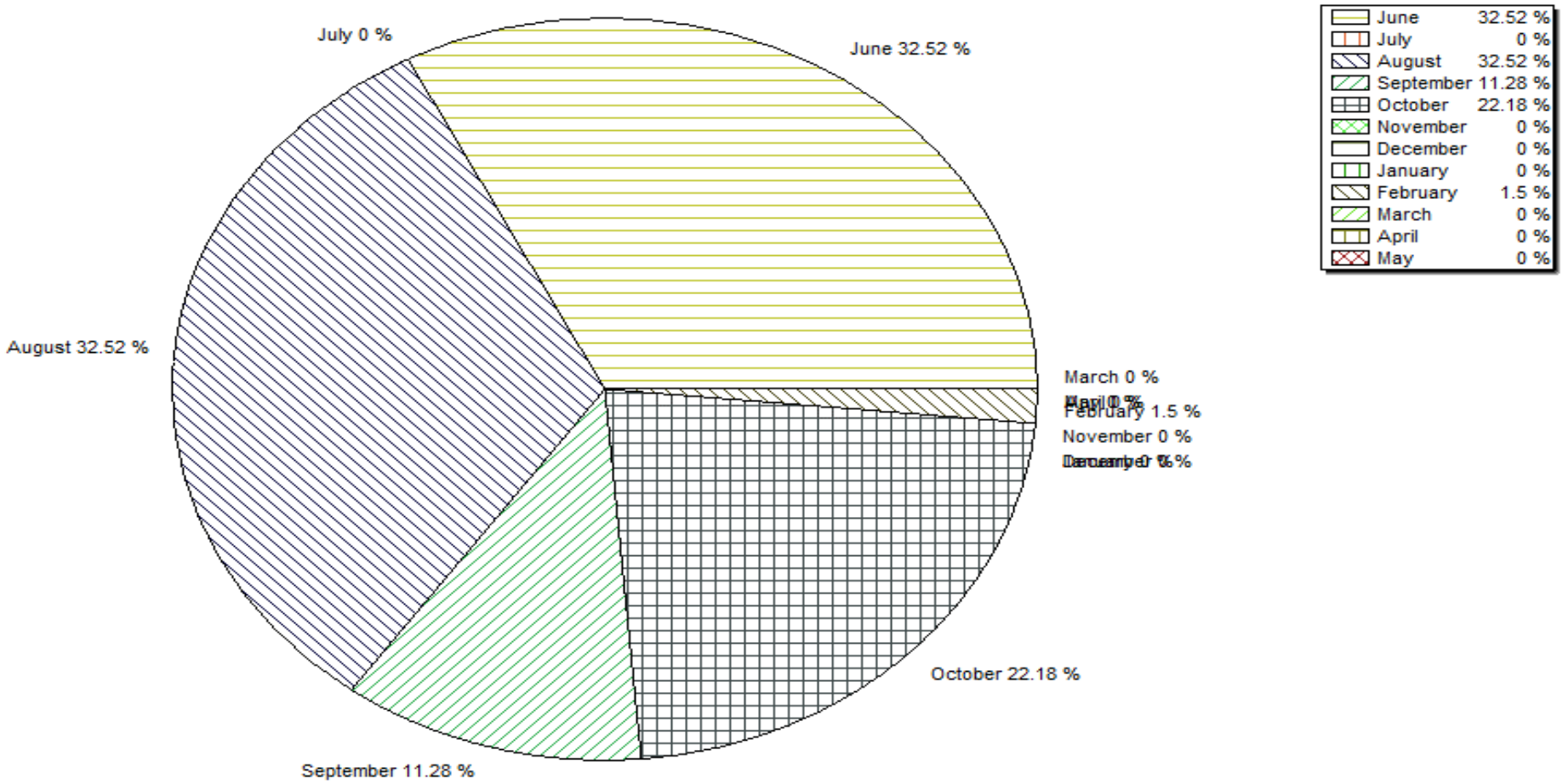
Monthly Runoff for the Year : 2016-2017

Station Name : Pachegaon (AGU00D3)

Local River : Pravara

Division : U Godavari Div., Hyderabad

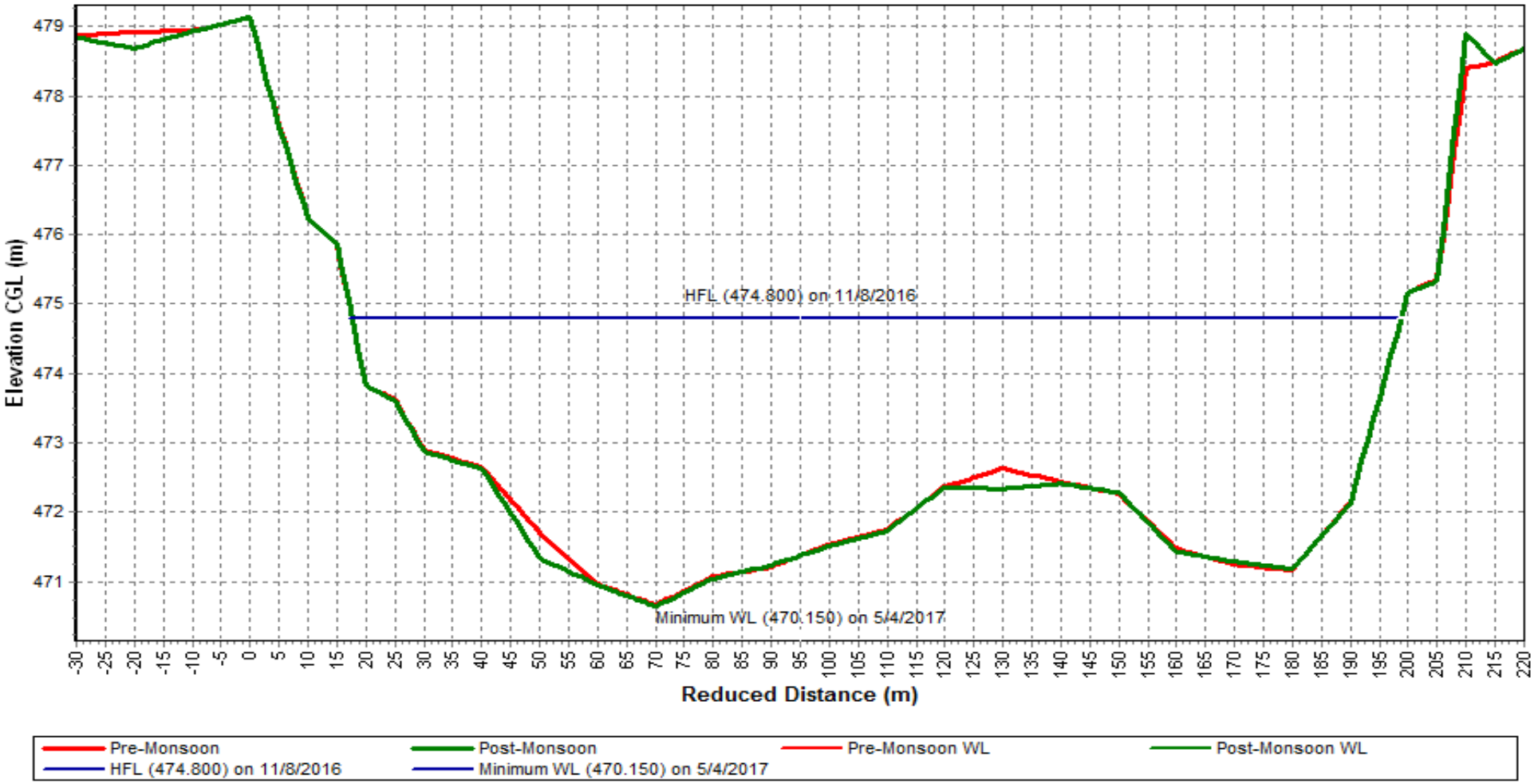
Sub-Division : U Godavari SD, Aurangabad



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

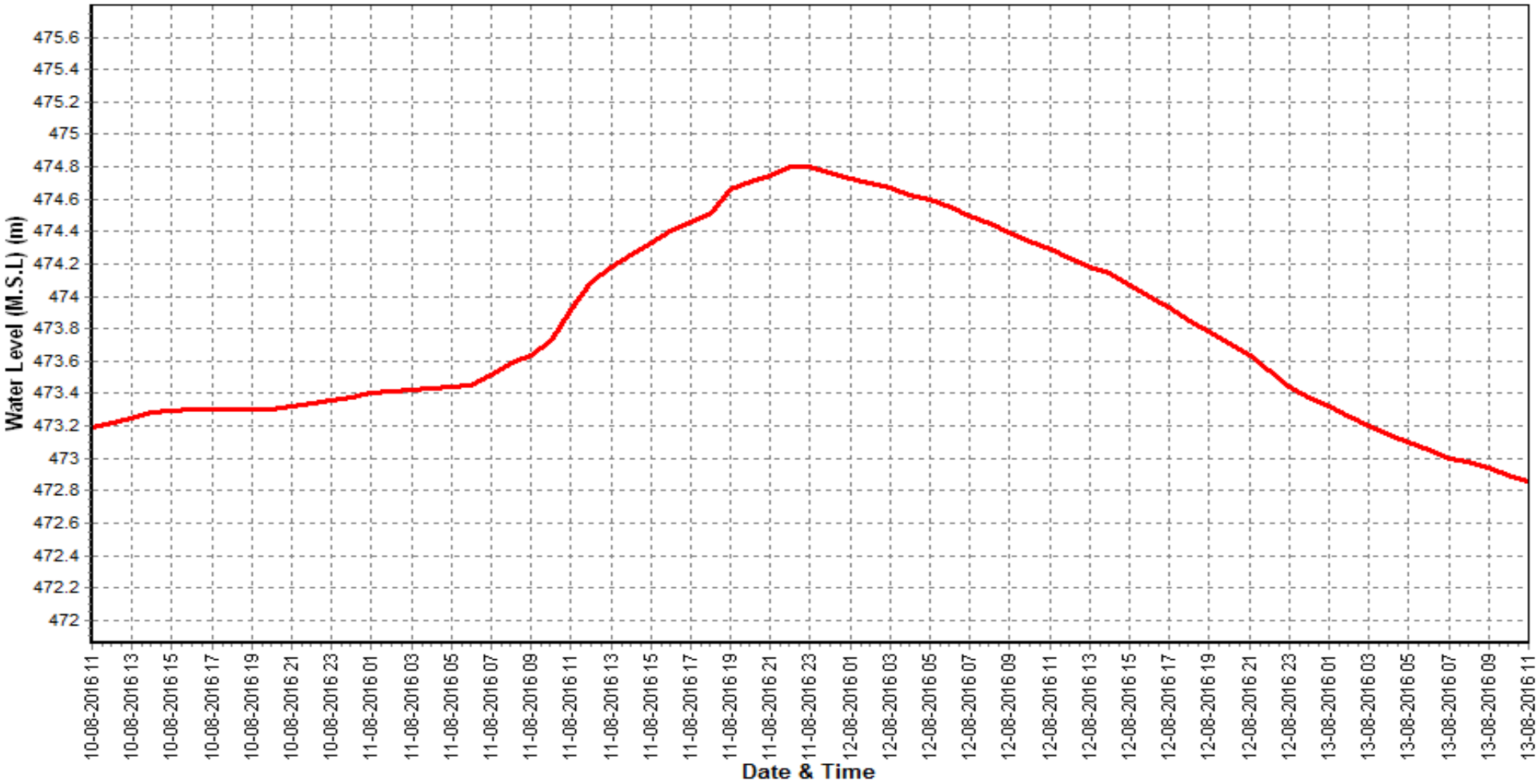
Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**

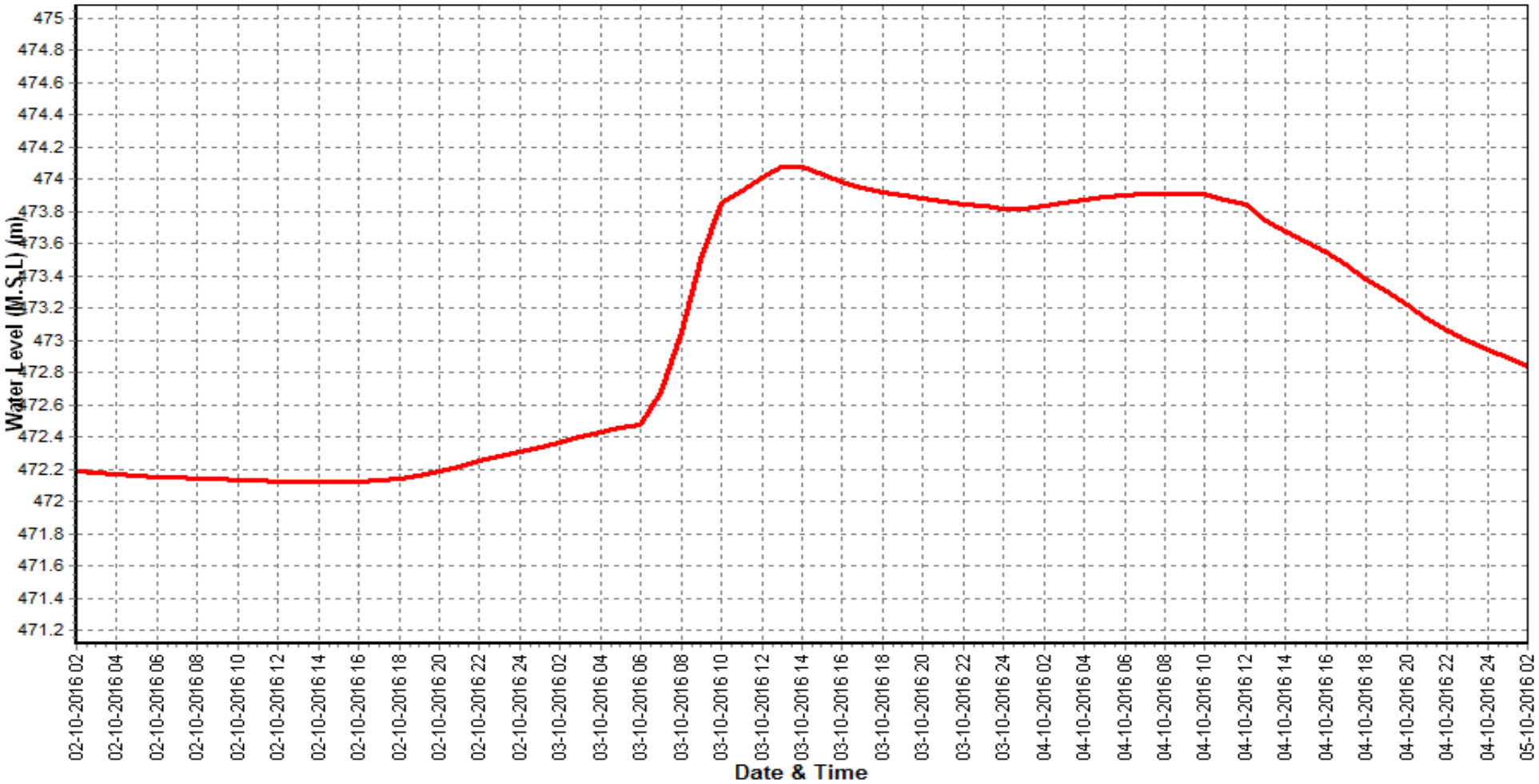


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**

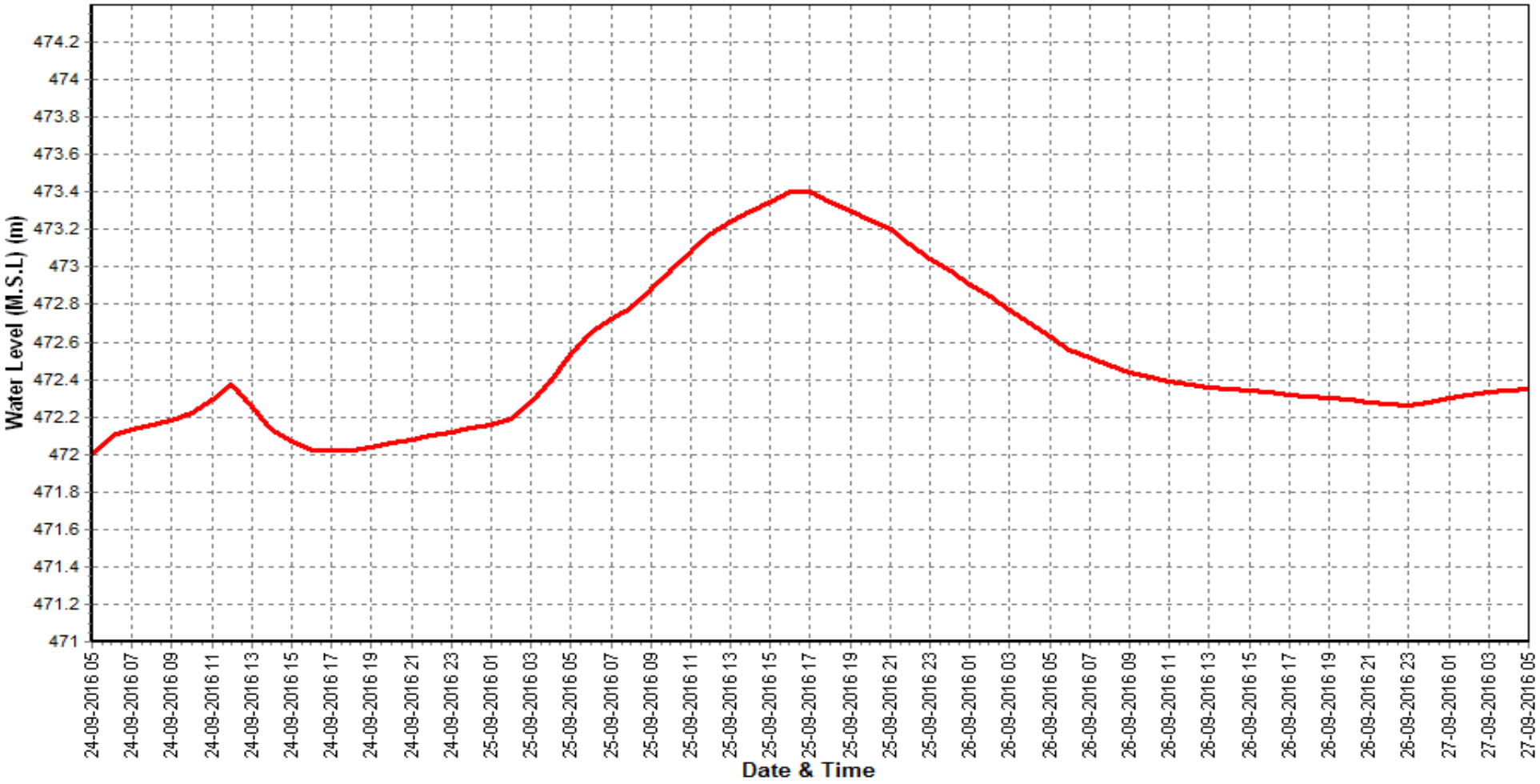


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Pachegaon (AGU00D3) **Division : U Godavari Div., Hyderabad**

Local River : Pravara **Sub-Division : U Godavari SD, Aurangabad**



Time Span: 72 Hrs

HISTORY SHEET

			Water Year	:	**2016-2017**
Site	:	**Kopergaon gauge,Rainfal,W/L**	**Code**	:	**KOPERGAON**
State	:	Maharashtra	District		Ahmednagar
Basin	:	Godavari	Independent River	:	Godavari
Tributary	:		Sub Tributary	:	
Sub-Sub Tributary	:		Local River	:	Godavari
Division	:	Upper Godavari Div., Hyderabad	Sub-Division	:	Upper Godavari SD, Aurangabad
Drainage Area	:	6840 Sq. Km.	Bank	:	Left
Latitude	:	19°52'00"	Longitude	:	74°28'28"
Zero of Gauge (m)	:	485.5 (m.s.l)	01.01.1977		
		Opening Date	Closing Date		
Gauge	:	25.05.1977	**HFL During 2016-17**	:	**495.95**
			Corres.Discharge	:	**4274.151 Cumecs(Estimated)**
Discharge	:	31.07.2014	**Date& Time of**	:	**03.08.2016**
			Occurance	:	**12:00**
Sediment	:				
Water Quality	:	01.04.2014			

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2014-2015	991.1	490.400	31.07.2014	0.000	485.500	21.01.2015
2015-2016	813.3	490.000	19.09.2015	0.000	485.500	25.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON) Division : Upper Godavari Div., Hyderabad

Local River : Godavari Sub-Division : Upper Godavari SD, Aurangabad

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000		0.000	487.600	191.2 #		0.000	487.800	0.000	488.700	0.000
2		0.000		0.000	488.825	512.1		0.000	488.000	0.000	488.700	0.000
3		0.000		0.000	495.600	4029 *		0.000	488.050	0.000	488.700	0.000
4		0.000		0.000	493.200	2502 *		0.000	488.550	433.9 #	488.700	0.000
5		0.000		0.000	490.675	1177		0.000	488.300	0.000	488.700	0.000
6		0.000		0.000	489.900	959.9		0.000	488.200	0.000	488.700	0.000
7		0.000		0.000	492.100	1899 *		0.000	488.200	0.000	488.650	0.000
8		0.000		0.000	489.700	863.1		0.000	488.150	0.000	488.650	0.000
9		0.000		0.000	488.775	517.4		0.000	488.100	0.000	488.650	0.000
10		0.000		0.000	489.200	614.8		0.000	488.200	0.000	488.650	0.000
11		0.000		0.000	489.650	874.3		0.000	488.750	0.000	488.600	0.000
12		0.000	488.750	478.0	489.400	667.5		0.000	489.000	0.000	488.600	0.000
13		0.000	489.600	767.5	488.600	483.2		0.000	489.000	0.000	488.550	0.000
14		0.000	487.900	268.5	488.000	284.1 *		0.000	489.000	0.000	488.500	0.000
15		0.000	486.750	50.02	487.800	235.9 *		0.000	488.950	0.000	488.450	0.000
16		0.000	487.400	135.3	487.500	170.2 #		0.000	488.900	0.000	488.400	0.000
17		0.000	486.700	39.53 *	487.400	150.2 #		0.000	488.700	0.000	488.400	0.000
18		0.000	486.650	37.88	487.000	80.23 #		0.000	488.650	0.000	488.400	0.000
19		0.000	486.500	18.96 *	486.450	0.000		0.000	488.650	0.000	488.400	0.000
20		0.000	486.450	14.75 *	486.450	0.000		0.000	488.650	0.000	488.350	0.000
21		0.000	487.025	71.99	486.550	0.000		0.000	488.750	0.000	488.350	0.000
22		0.000	487.000	80.23 #	486.825	54.66		0.000	488.850	0.000	488.350	0.000
23		0.000	486.950	72.70 #	486.700	43.50		0.000	488.850	0.000	488.350	0.000
24		0.000	486.800	51.87 *	486.480	0.000	488.650	483.5	488.850	0.000	488.350	0.000
25		0.000	487.100	74.92	486.450	0.000	488.450	404.8 *	488.800	0.000	488.300	0.000
26		0.000	486.950	75.17	486.450	0.000	487.000	80.23 #	488.800	0.000	488.300	0.000
27		0.000	486.550	0.000	486.220	0.000	487.350	140.6 #	488.800	0.000	488.250	0.000
28		0.000	486.500	0.000		0.000	487.500	0.000	488.750	0.000	488.250	0.000
29		0.000	486.500	0.000		0.000	487.750	0.000	488.750	0.000	488.250	0.000
30		0.000	486.500	0.000		0.000	487.800	0.000	488.750	0.000	488.200	0.000
31			486.500	0.000		0.000			488.750	0.000		
Ten-Daily Mean												
I Ten-Daily		0.000		0.000	490.558	1327		0.000	488.155	43.39	488.680	0.000
II Ten-Daily		0.000	487.411	181.0	487.825	294.6		0.000	488.825	0.000	488.465	0.000
III Ten-Daily		0.000	486.761	38.81	486.525	8.924	487.786	110.9	488.791	0.000	488.295	0.000
Monthly												
Min.		0.000	486.450	0.000	486.220	0.000	487.000	0.000	487.800	0.000	488.200	0.000
Max.		0.000	489.600	767.5	495.600	4029	488.650	483.5	489.000	433.9	488.700	0.000
Mean		0	487.054	72.17	488.500	526.1	487.786	36.97	488.597	14	488.480	0

Annual Runoff in MCM = 1736 Annual Runoff in mm = 254

Peak Observed Discharge = 1177 cumecs on 05-08-2016 Corres. Water Level :490.675 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON) Division : Upper Godavari Div., Hyderabad

Local River : Godavari Sub-Division : Upper Godavari SD, Aurangabad

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	488.200	0.000	486.900	0.000	486.400	0.000	486.000	0.000		0.000		0.000
2	488.200	0.000	486.900	0.000	486.350	0.000	486.000	0.000		0.000		0.000
3	488.200	0.000	486.900	0.000	486.350	0.000	485.950	0.000		0.000		0.000
4	488.200	0.000	486.850	0.000	486.350	0.000	485.950	0.000		0.000		0.000
5	488.200	0.000	486.850	0.000	486.350	0.000	485.950	0.000		0.000		0.000
6	488.200	0.000	486.800	0.000	486.300	0.000	485.900	0.000		0.000		0.000
7	488.200	0.000	486.750	0.000	486.300	0.000	485.900	0.000		0.000		0.000
8	488.150	0.000	486.700	0.000	486.300	0.000	485.850	0.000		0.000		0.000
9	488.100	0.000	486.650	0.000	486.300	0.000	485.850	0.000		0.000		0.000
10	488.100	0.000	486.650	0.000	486.250	0.000	485.800	0.000		0.000		0.000
11	488.100	0.000	486.600	0.000	486.250	0.000	485.800	0.000		0.000		0.000
12	488.000	0.000	486.600	0.000	486.250	0.000	485.750	0.000		0.000		0.000
13	487.800	0.000	486.600	0.000	486.250	0.000	485.750	0.000		0.000		0.000
14	487.500	0.000	486.600	0.000	486.250	0.000	485.650	0.000		0.000		0.000
15	487.300	0.000	486.550	0.000	486.200	0.000		0.000		0.000		0.000
16	487.200	0.000	486.550	0.000	486.200	0.000		0.000		0.000		0.000
17	487.150	0.000	486.500	0.000	486.200	0.000		0.000		0.000		0.000
18	487.150	0.000	486.450	0.000	486.200	0.000		0.000		0.000		0.000
19	487.150	0.000	486.450	0.000	486.200	0.000		0.000		0.000		0.000
20	487.150	0.000	486.450	0.000	486.150	0.000		0.000		0.000		0.000
21	487.150	0.000	486.450	0.000	486.150	0.000		0.000		0.000		0.000
22	487.150	0.000	486.450	0.000	486.150	0.000		0.000		0.000		0.000
23	487.150	0.000	486.450	0.000	486.150	0.000		0.000		0.000		0.000
24	487.050	0.000	486.450	0.000	486.050	0.000		0.000		0.000		0.000
25	487.000	0.000	486.400	0.000	486.050	0.000		0.000		0.000		0.000
26	487.000	0.000	486.400	0.000	486.050	0.000		0.000		0.000		0.000
27	486.950	0.000	486.400	0.000	486.050	0.000		0.000		0.000		0.000
28	486.950	0.000	486.400	0.000	486.000	0.000		0.000		0.000		0.000
29	486.950	0.000	486.400	0.000				0.000		0.000		0.000
30	486.900	0.000	486.400	0.000				0.000		0.000		0.000
31	486.900	0.000	486.400	0.000				0.000				0.000
Ten-Daily M												
I Ten-Daily	488.175	0.000	486.795	0.000	486.325	0.000	485.915	0.000		0.000		0.000
II Ten-Daily	487.450	0.000	486.535	0.000	486.215	0.000	485.738	0.000		0.000		0.000
III Ten-Daily	487.014	0.000	486.418	0.000	486.081	0.000		0.000		0.000		0.000
Monthly												
Min.	486.900	0.000	486.400	0.000	486.000	0.000	485.650	0.000		0.000		0.000
Max.	488.200	0.000	486.900	0.000	486.400	0.000	486.000	0.000		0.000		0.000
Mean	487.529	0	486.577	0	486.216	0	485.864	0		0		0

Peak Computed Discharge = 4029 cumecs on 03-08-2016 Corres. Water Level :495.6 m

Lowest Computed Discharge = 14.75 cumecs on 20-07-2016 Corres. Water Level :486.45 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

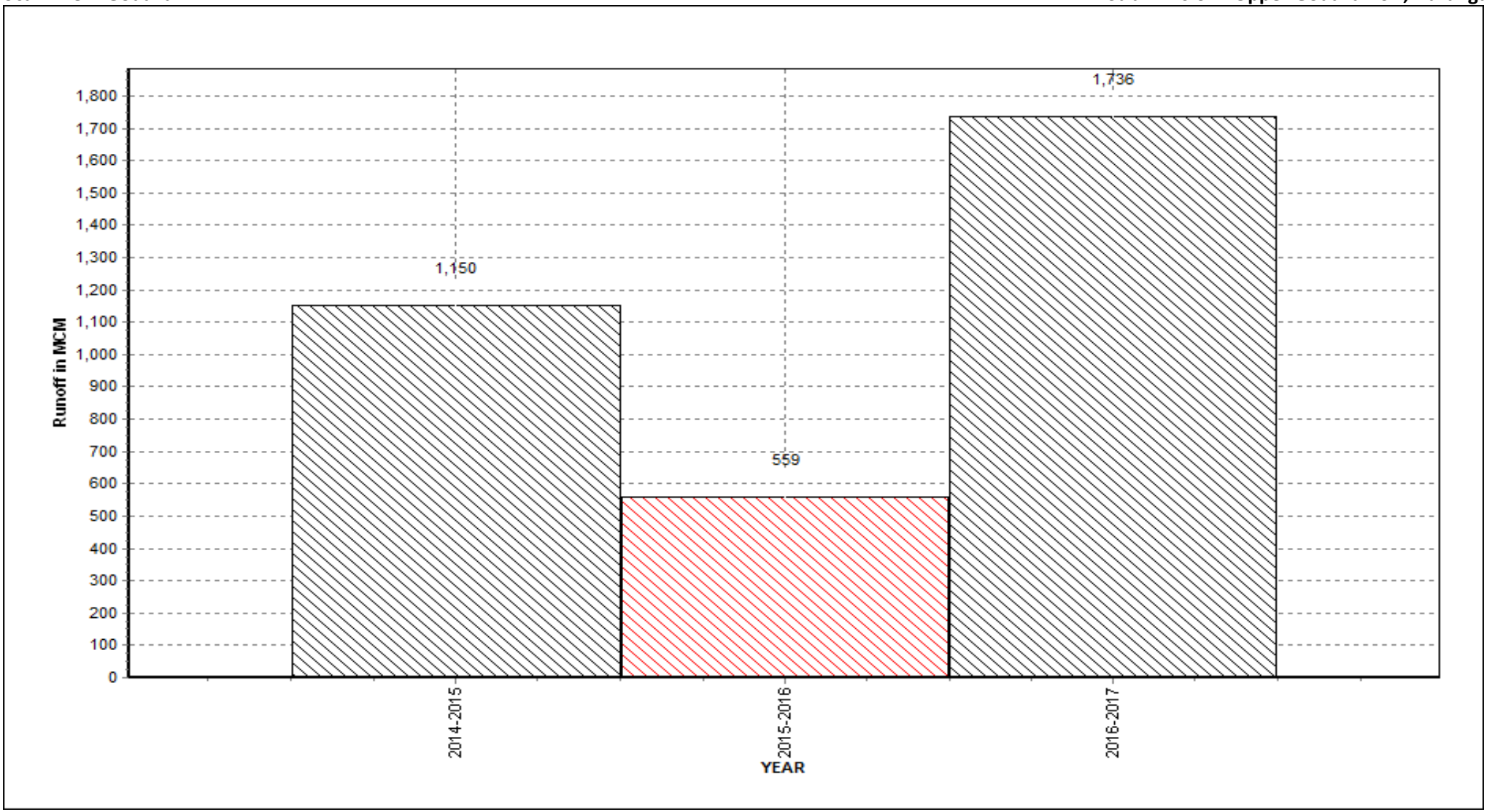
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Annual Runoff Values for the period: 2014 - 2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON) **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**

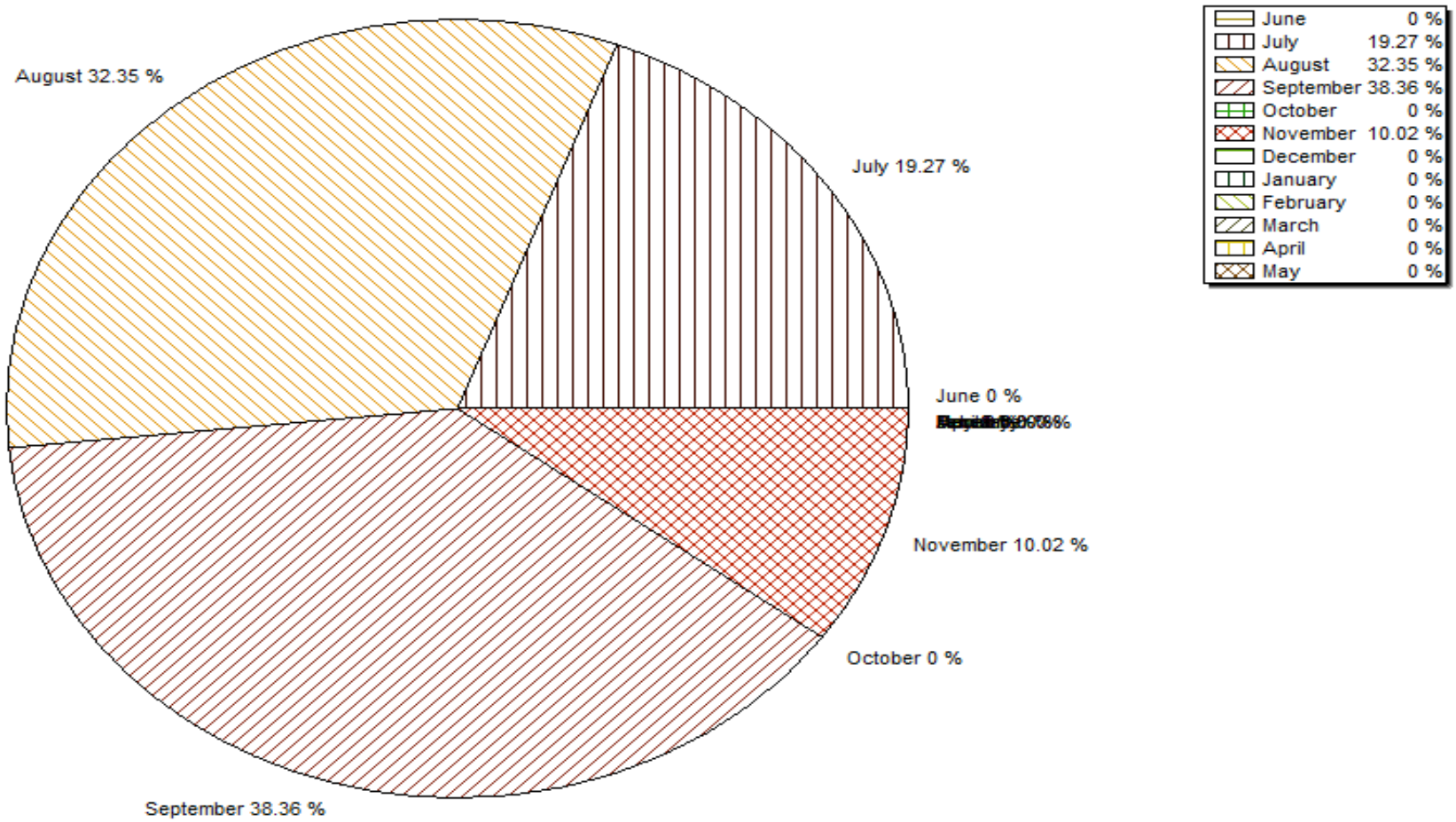


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 2014-2016

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON) **Division : Upper Godavari Div., Hyderabad**

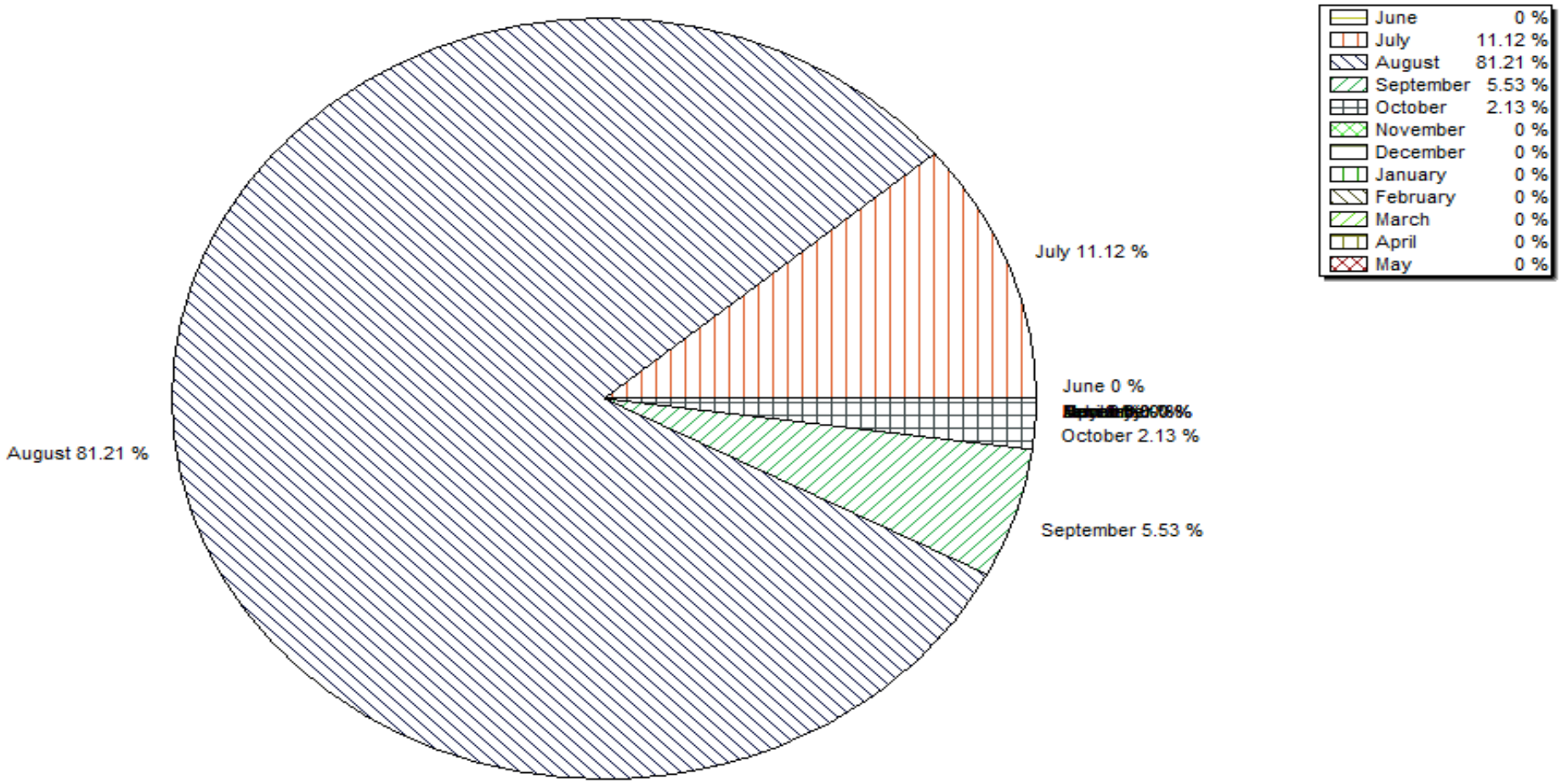
Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**



Monthly Runoff for the Year : 2016-2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON) **Division : Upper Godavari Div., Hyderabad**

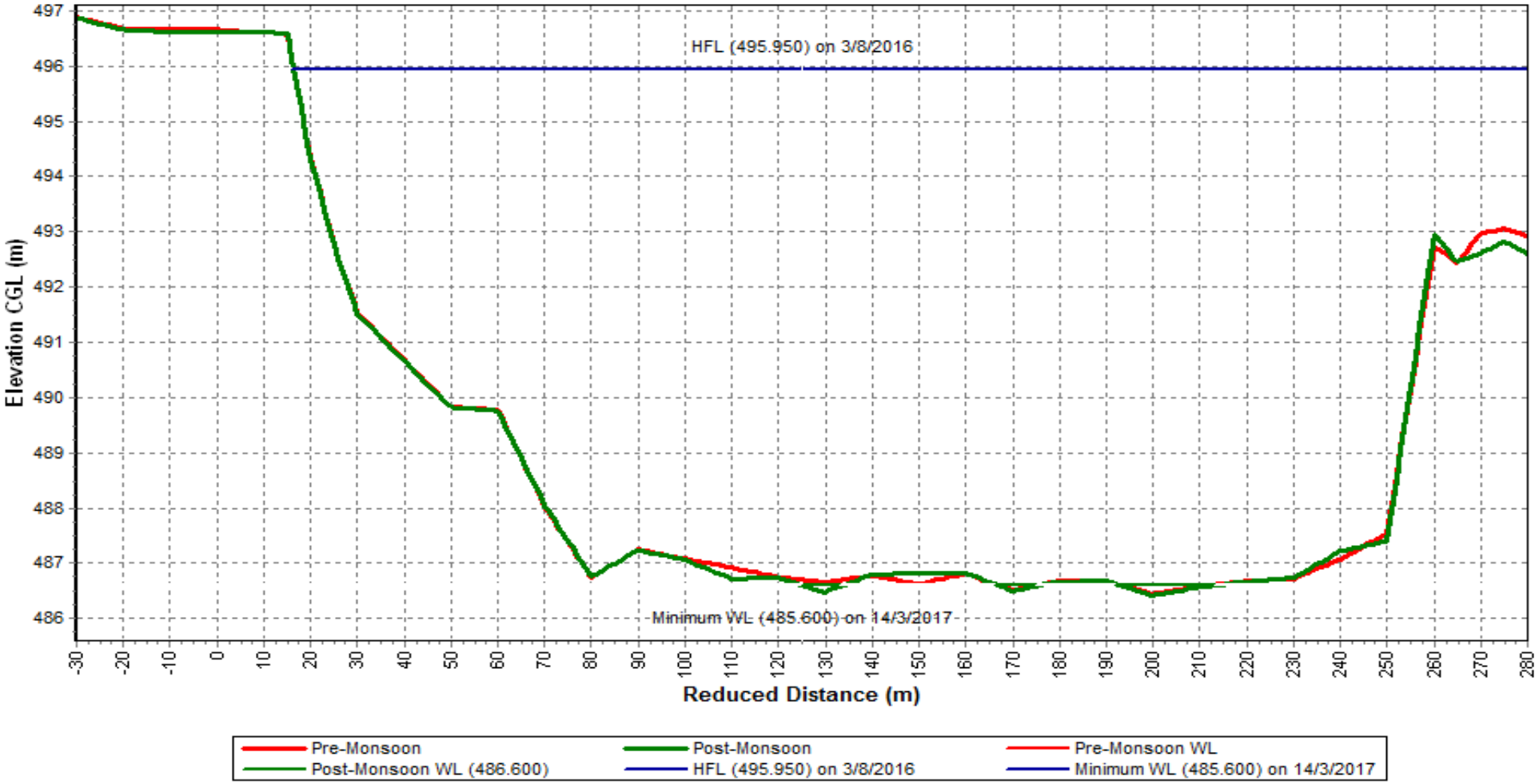
Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON) **Division : Upper Godavari Div., Hyderabad**

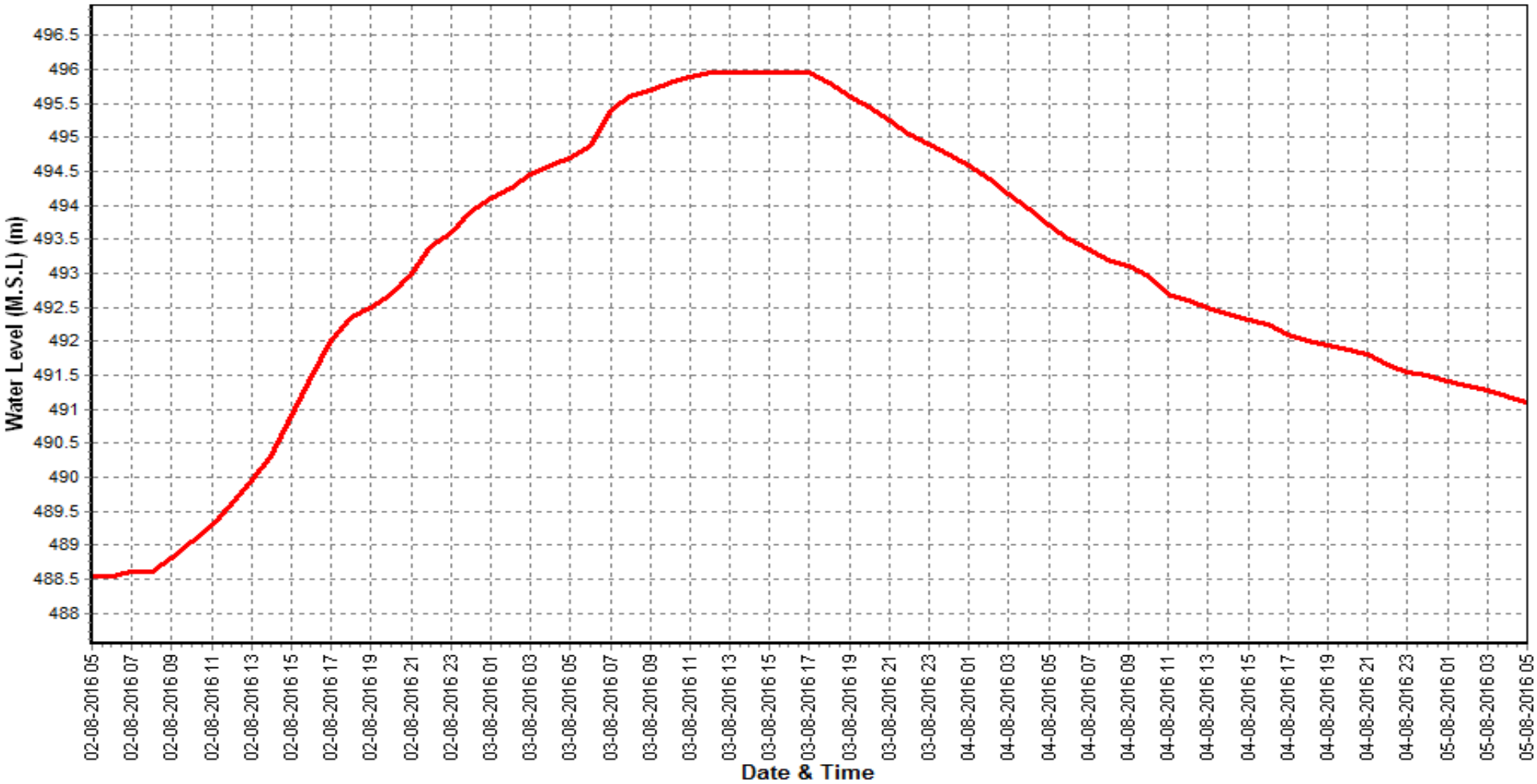
Local River : Godavari **Sub-Division : Upper Godavari SD, Aurangabad**



Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON)

Local River : Godavari

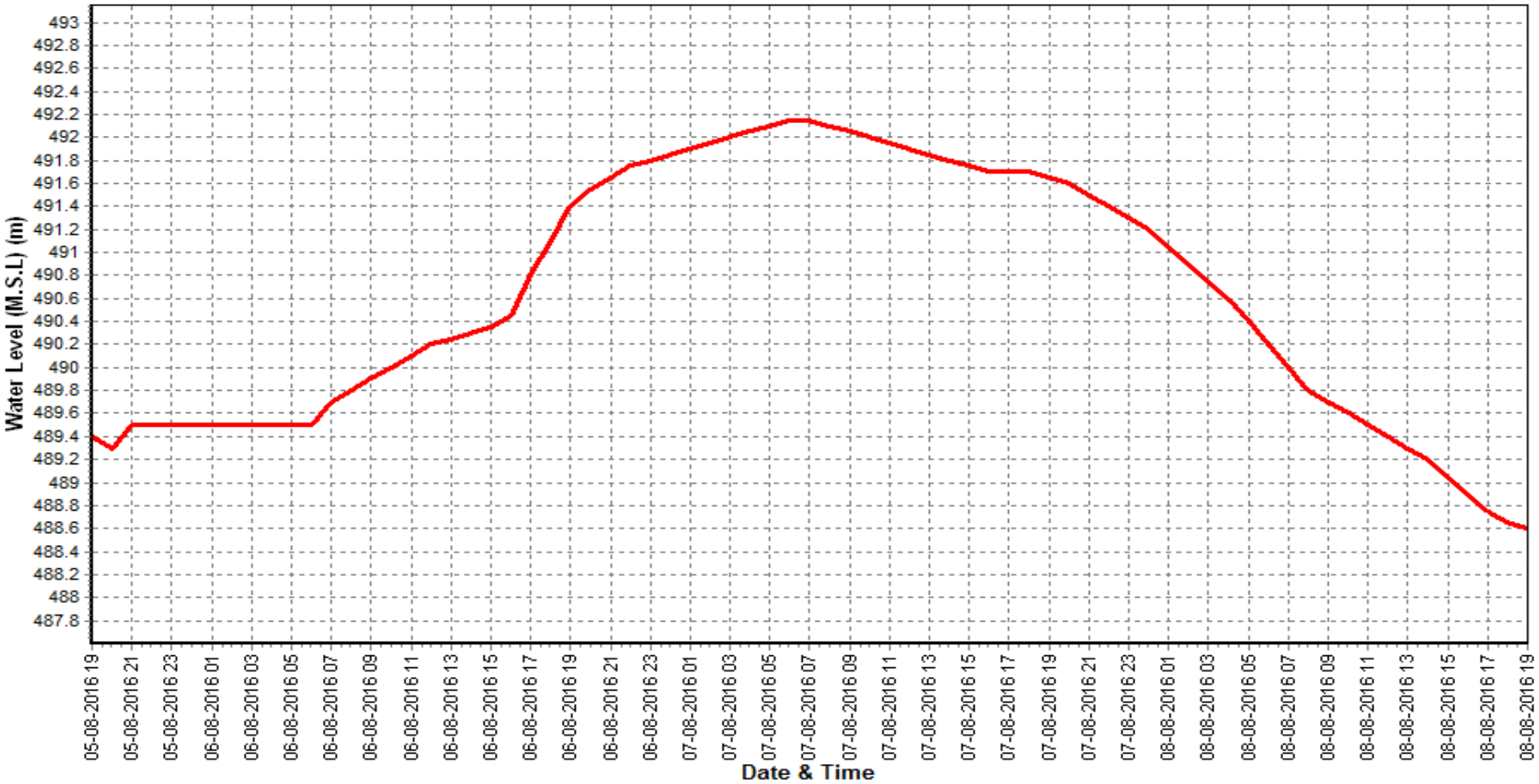


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON)

Local River : Godavari

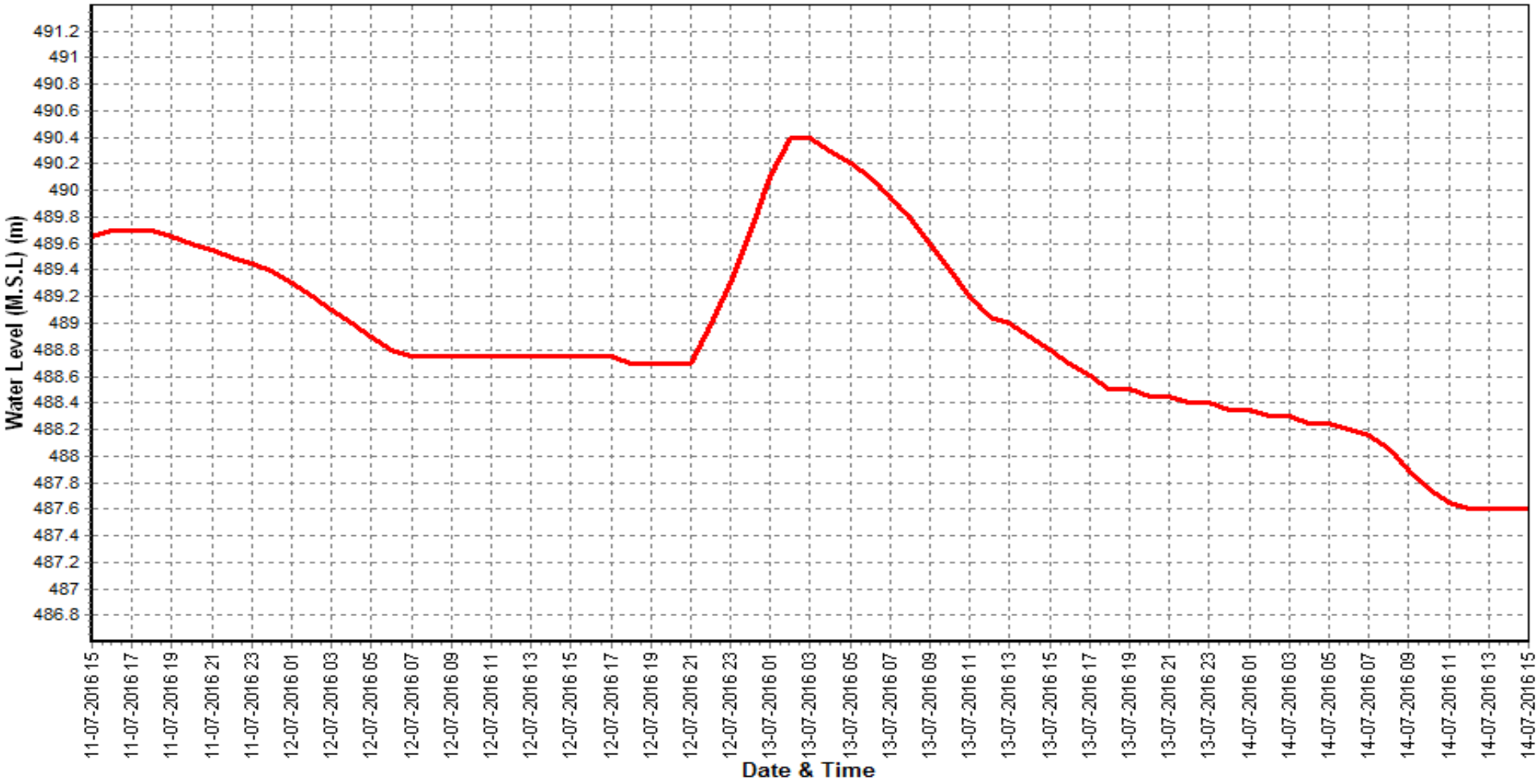


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : Kopergaon gauge,Rainfal,W/L (KOPERGAON)

Local River : Godavari



Time Span: 72 Hrs

HISTORY SHEET

Water Year : 2016-2017

Site	**:**	**NANDED**	**Code**	**:**	**NANDED**
State	:	Maharashtra	District		Nanded
Basin	:	Godavari	Independent River	:	-
Tributary	:	-	Sub Tributary	:	-
Sub-Sub Tributary	:	-	Local River	:	Godavari
Division	:	Upper Godavari Div., Hyderabad	Sub-Division	:	Purna SD, Nanded
Drainage Area	:	52038 Sq. Km.	Bank	:	Right
Latitude	:	19°04'00"	Longitude	:	77°30'00"
Zero of Gauge (m)	:	340.5 (m.s.l)	01.06.1964		
		340.5 (m.s.l)	12.03.2014		
		340.5 (m.s.l)	01.06.2000		
		Opening Date	Closing Date		
Gauge	:	01.06.1977	**HFL During 2016-17**	**:**	**349.95**
			Corres.Discharge	**:**	**3843.951 Cumecs(Estimated)**
Discharge	:	01.06.2016	**Date& Time of**	**:**	**26.09.2016**
			Occurance	**:**	**10:00**
Sediment	:				
Water Quality	:				

Annual Maximum / Minimum discharge with corresponding Water Level (m.s.l)

	Maximum			Minimum		
Year	**Q (cumecs)**	**WL (m)**	**Date**	**Q (cumecs)**	**WL (m)**	**Date**
2014-2015	0.000	343.600	06.06.2014	0.000	343.750	27.10.2014
2015-2016	0.000	343.290	04.10.2015	0.000	341.820	26.01.2016

Q : Observed / Computed Discharge WL : Corresponding Water Level(m.s.l)

Stage-Discharge Data for the period 2016 - 2017

Station Name : NANDED (NANDED) **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Jun		Jul		Aug		Sep		Oct		Nov	
	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q	W.L	Q
1		0.000	341.100	0.000	343.260	0.000	343.100	332.1 *	344.350	918.5 #	343.520	0.000
2		0.000	341.100	0.000	342.750	0.000	343.300	422.4 *	345.800	1642 *	343.550	0.000
3		0.000	341.140	0.000	343.400	0.000	343.400	468.1 *	345.150	1313 #	343.650	0.000
4		0.000	341.140	0.000	343.270	0.000	343.450	491.2 *	344.425	955.0 #	343.650	0.000
5		0.000	341.190	0.000	343.220	0.000	343.480	505.0 *	344.550	1016 #	343.680	0.000
6		0.000	341.200	0.000	343.620	0.000	343.510	518.9 *	343.750	653.3	343.700	0.000
7		0.000	341.200	0.000	343.330	0.000	343.540	532.8 *	344.150	821.7 #	343.710	0.000
8		0.000	341.200	0.000	343.650	0.000	343.540	532.8 *	343.400	0.000	343.730	0.000
9		0.000	341.200	0.000	343.590	0.000	343.550	537.5 *	345.850	1667 *	343.740	0.000
10		0.000	341.260	0.000	343.700	0.000	343.550	537.5 *	342.670	0.000	343.770	0.000
11		0.000	341.310	0.000	343.560	0.000	343.570	546.8 *	341.940	0.000	343.800	0.000
12		0.000	343.540	0.000	343.780	0.000	343.570	546.8 *	343.350	0.000	343.810	0.000
13		0.000	342.400	0.000	343.550	0.000	343.570	546.8 *	344.075	712.6	343.810	0.000
14		0.000	342.900	0.000	342.900	0.000	344.150	753.3	343.450	0.000	343.820	0.000
15		0.000	343.180	0.000	343.050	0.000	343.510	518.9 *	343.400	0.000	343.820	0.000
16		0.000	343.400	0.000	343.000	0.000	343.775	657.0	343.590	556.1 *	343.820	0.000
17		0.000	343.570	0.000	343.310	0.000	344.900	1189 #	343.610	0.000	343.820	0.000
18		0.000	343.740	0.000	343.370	0.000	343.580	551.5 *	343.440	0.000	343.820	0.000
19	341.190	0.000	343.910	0.000	343.420	0.000	343.230	390.6 *	344.000	661.8	343.820	0.000
20	340.800	0.000	343.700	0.000	343.480	0.000	344.210	758.3	343.470	0.000	343.820	0.000
21	340.800	0.000	343.400	0.000	343.490	0.000	344.010	751.0	343.660	0.000	343.820	0.000
22	340.800	0.000	343.580	0.000	343.510	0.000	344.450	1177	343.775	629.6	343.780	0.000
23	340.800	0.000	343.510	0.000	343.520	0.000	344.750	1115 #	343.560	542.1 *	343.750	0.000
24	340.800	0.000	343.670	0.000	343.520	0.000	347.800	2684 #	343.800	601.4	343.740	0.000
25	340.800	0.000	343.320	0.000	343.520	0.000	348.800	3219 #	343.540	0.000	343.700	0.000
26	340.800	0.000	343.380	0.000	343.540	0.000	349.675	3709	343.540	0.000	343.700	0.000
27	340.910	0.000	343.730	644.8	343.570	0.000	344.275	882.1 #	343.600	0.000	343.690	0.000
28	341.010	0.000	343.850	0.000	343.570	0.000	343.875	769.2	343.650	0.000	343.690	0.000
29	341.010	0.000	343.520	0.000	343.570	0.000	344.050	704.0	343.650	618.7	343.690	0.000
30	341.050	0.000	343.850	690.4	343.570	0.000	344.000	872.3	343.690	0.000	343.680	0.000
31			343.630	0.000	343.770	0.000			343.720	0.000		
-Daily Mean												
Ten-Daily		0.000	341.173	0.000	343.379	0.000	343.442	487.8	344.409	898.8	343.670	0.000
Ten-Dail	340.995	0.000	343.165	0.000	343.342	0.000	343.806	645.9	343.432	193.1	343.816	0.000
l Ten-Dai	340.878	0.000	343.585	121.4	343.559	0.000	345.569	1588	343.653	217.4	343.724	0.000
Monthly												
Min.	340.800	0.000	341.100	0.000	342.750	0.000	343.100	332.1	341.940	0.000	343.520	0.000
Max.	341.190	0.000	343.910	690.4	343.780	0.000	349.675	3709	345.850	1667	343.820	0.000
Mean	340.897	0	342.672	43.07	343.431	0	344.272	907.3	343.826	429.4	343.737	0

Annual Runoff in MCM = 3617 Annual Runoff in mm =

Peak Observed Discharge = 3709 cumecs on 26-09-2016 Corres. Water Level :349.675 m

Lowest Observed Discharge = 0.000 cumecs on 01-06-2016

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

Stage-Discharge Data for the period 2016 - 2017

Station Name : NANDED (NANDED) **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

Day	Dec		Jan		Feb		Mar		Apr		May	
	W.L	Q	WL	Q	WL	Q	WL	Q	WL	Q	WL	Q
1	343.670	0.000	343.720	0.000	343.630	0.000	343.340	0.000	342.890	0.000	342.160	0.000
2	343.670	0.000	343.720	0.000	343.630	0.000	343.310	0.000	342.880	0.000	342.160	0.000
3	343.680	0.000	343.720	0.000	343.630	0.000	343.280	0.000	342.860	0.000	342.140	0.000
4	343.680	0.000	343.720	0.000	343.630	0.000	343.260	0.000	342.840	0.000	342.120	0.000
5	343.680	0.000	343.720	0.000	343.600	0.000	343.240	0.000	342.800	0.000	342.080	0.000
6	343.680	0.000	343.710	0.000	343.580	0.000	343.230	0.000	342.750	0.000	342.050	0.000
7	343.680	0.000	343.710	0.000	343.570	0.000	343.230	0.000	342.700	0.000	342.020	0.000
8	343.680	0.000	343.710	0.000	343.570	0.000	343.220	0.000	342.680	0.000	342.000	0.000
9	343.680	0.000	343.700	0.000	343.560	0.000	343.210	0.000	342.670	0.000	341.980	0.000
10	343.680	0.000	343.700	0.000	343.560	0.000	343.200	0.000	342.650	0.000	341.960	0.000
11	343.690	0.000	343.700	0.000	343.540	0.000	343.190	0.000	342.640	0.000	341.940	0.000
12	343.690	0.000	343.700	0.000	343.540	0.000	343.180	0.000	342.620	0.000	341.920	0.000
13	343.690	0.000	343.700	0.000	343.530	0.000	343.170	0.000	342.610	0.000	341.910	0.000
14	343.690	0.000	343.700	0.000	343.510	0.000	343.160	0.000	342.570	0.000	341.900	0.000
15	343.680	0.000	343.700	0.000	343.500	0.000	343.150	0.000	342.530	0.000	341.890	0.000
16	343.680	0.000	343.700	0.000	343.500	0.000	343.130	0.000	342.490	0.000	341.860	0.000
17	343.680	0.000	343.700	0.000	343.490	0.000	343.130	0.000	342.460	0.000	341.830	0.000
18	343.690	0.000	343.700	0.000	343.480	0.000	343.120	0.000	342.440	0.000	341.800	0.000
19	343.700	0.000	343.700	0.000	343.460	0.000	343.090	0.000	342.420	0.000	341.780	0.000
20	343.750	0.000	343.700	0.000	343.450	0.000	343.050	0.000	342.400	0.000	341.750	0.000
21	343.750	0.000	343.700	0.000	343.450	0.000	343.020	0.000	342.350	0.000	341.720	0.000
22	343.750	0.000	343.670	0.000	343.450	0.000	342.990	0.000	342.310	0.000	341.700	0.000
23	343.750	0.000	343.650	0.000	343.440	0.000	342.970	0.000	342.250	0.000	341.690	0.000
24	343.750	0.000	343.650	0.000	343.430	0.000	342.950	0.000	342.200	0.000	341.660	0.000
25	343.750	0.000	343.640	0.000	343.420	0.000	342.940	0.000	342.180	0.000	341.600	0.000
26	343.750	0.000	343.640	0.000	343.410	0.000	342.930	0.000	342.180	0.000	341.200	0.000
27	343.750	0.000	343.640	0.000	343.400	0.000	342.920	0.000	342.170	0.000	341.000	0.000
28	343.720	0.000	343.630	0.000	343.380	0.000	342.920	0.000	342.170	0.000	341.000	0.000
29	343.720	0.000	343.630	0.000			342.920	0.000	342.170	0.000	341.000	0.000
30	343.720	0.000	343.630	0.000			342.920	0.000	342.160	0.000	340.950	0.000
31	343.720	0.000	343.630	0.000			342.900	0.000			340.920	0.000
n-Daily M												
Ten-Dail	343.678	0.000	343.713	0.000	343.596	0.000	343.252	0.000	342.772	0.000	342.067	0.000
l Ten-Dail	343.694	0.000	343.700	0.000	343.500	0.000	343.137	0.000	342.518	0.000	341.858	0.000
l Ten-Dai	343.739	0.000	343.646	0.000	343.422	0.000	342.944	0.000	342.214	0.000	341.313	0.000
Monthly												
Min.	343.670	0.000	343.630	0.000	343.380	0.000	342.900	0.000	342.160	0.000	340.920	0.000
Max.	343.750	0.000	343.720	0.000	343.630	0.000	343.340	0.000	342.890	0.000	342.160	0.000
Mean	343.705	0	343.685	0	343.512	0	343.105	0	342.501	0	341.732	0

Peak Computed Discharge = 1667 cumecs on 09-10-2016 Corres. Water Level :345.85 m

Lowest Computed Discharge = 332.1 cumecs on 01-09-2016 Corres. Water Level :343.1 m

Q: Observed/Computed Discharge in cumecs WL:Corresponding Mean Water Level(m.s.l) in m *:Computed Discharge

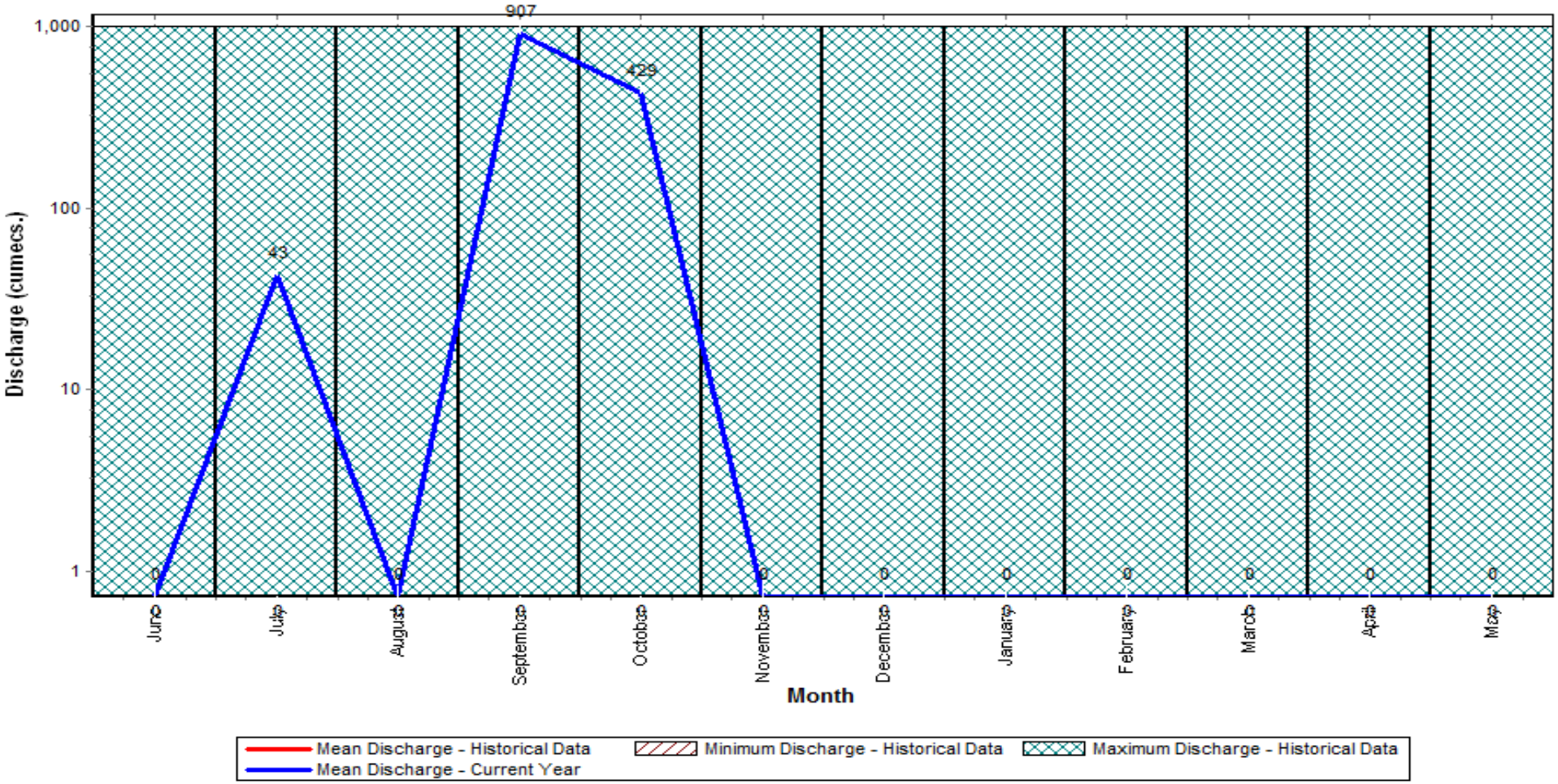
#:Discarded Discharge (values changed as per rating curve)

Note:Missing values ignored while arriving at Annual Runoff

HISTOGRAM - HYDROGRAPH for Water Year : 2016-2017

Station Name : NANDED (NANDED) **Data considered : 2014-2017** **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



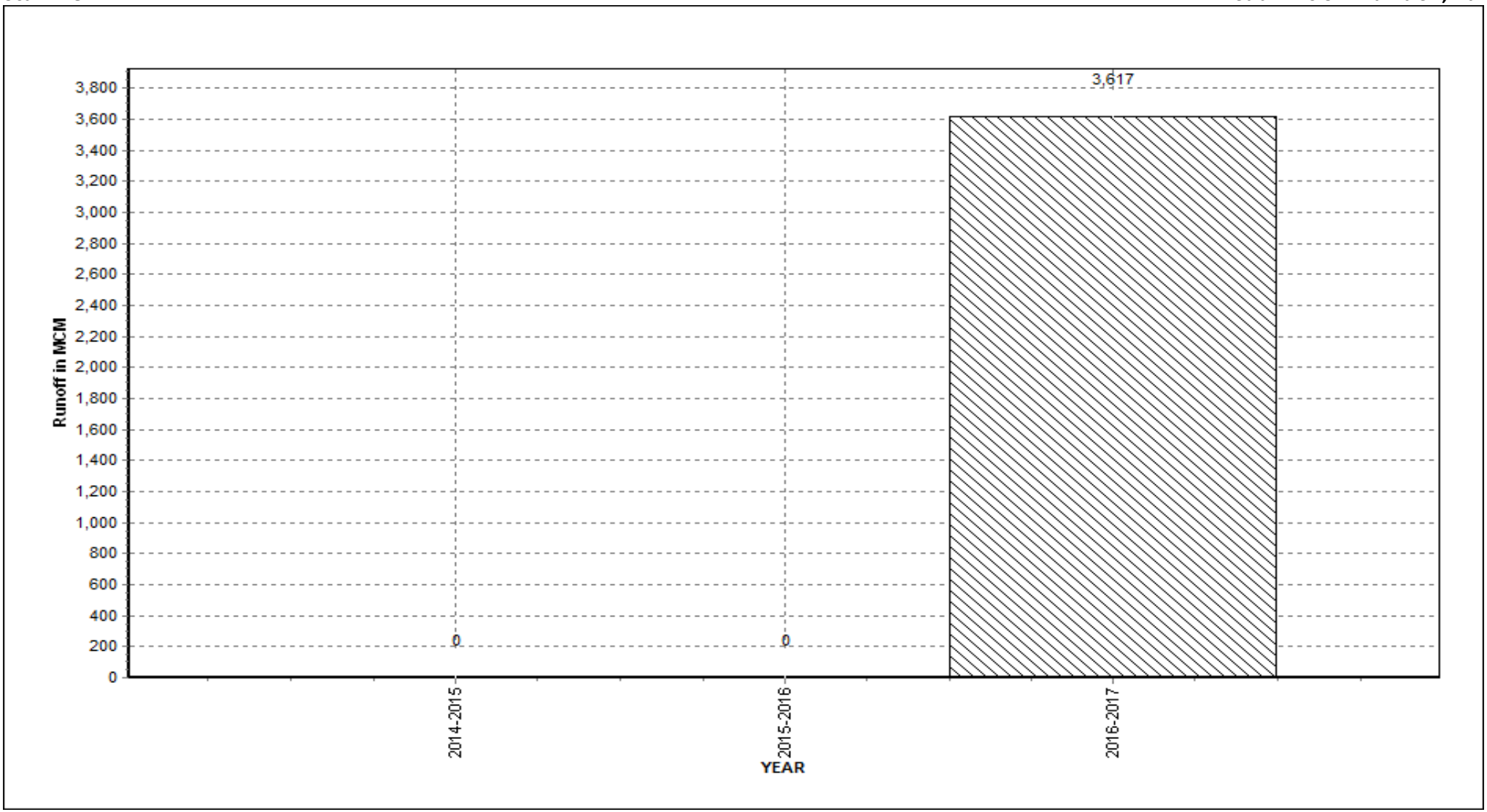
Annual Runoff Values for the period: 2014 - 2017

Station Name : NANDED (NANDED)

Division : Upper Godavari Div., Hyderabad

Local River : Godavari

Sub-Division : Purna SD, Nanded

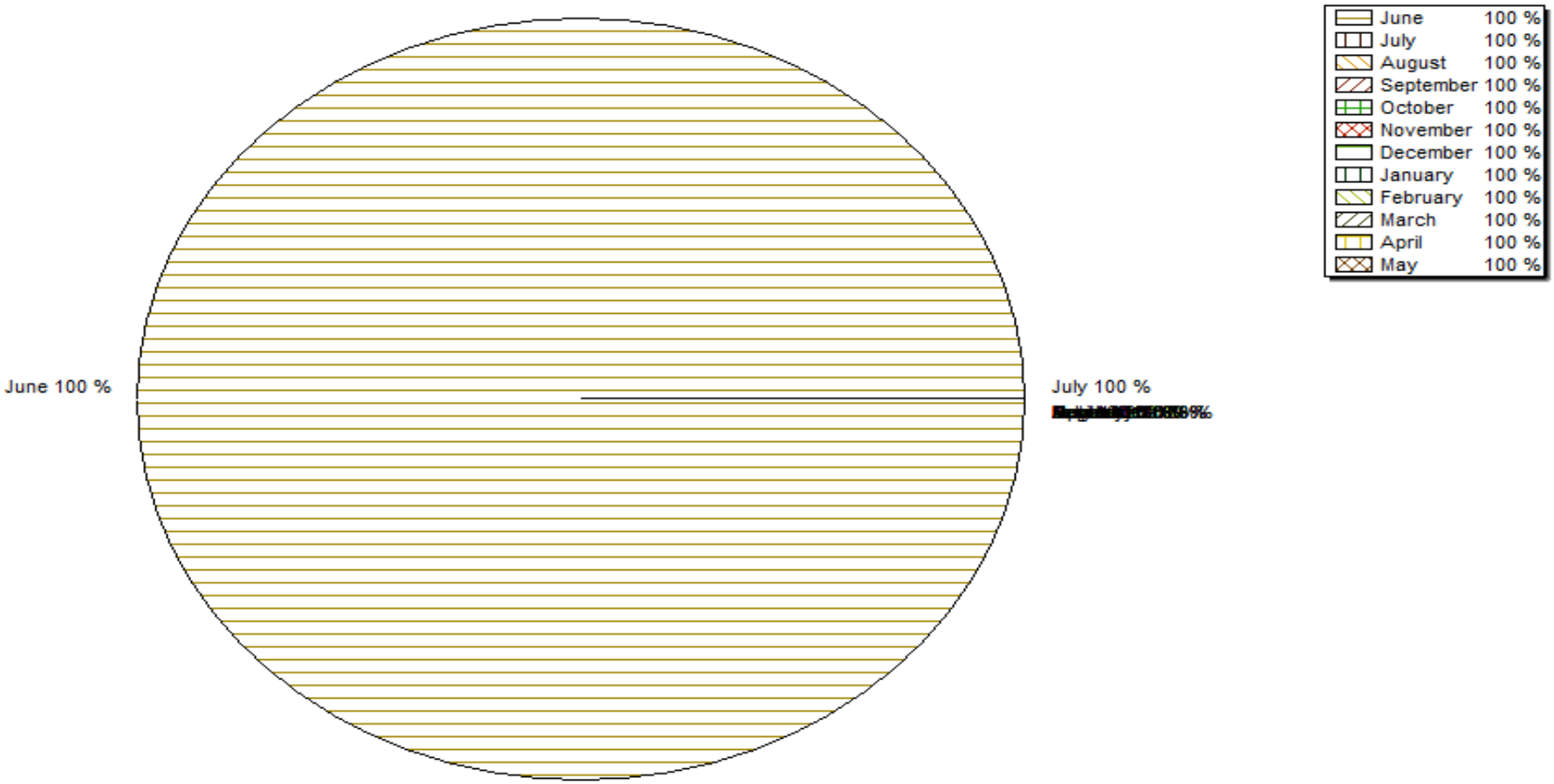


Note: Missing values have not been considered while arriving at Annual Runoff

Monthly Average Runoff based on period : 2014-2016

Station Name : NANDED (NANDED)
Local River : Godavari

Division : Upper Godavari Div., Hyderabad
Sub-Division : Purna SD, Nanded



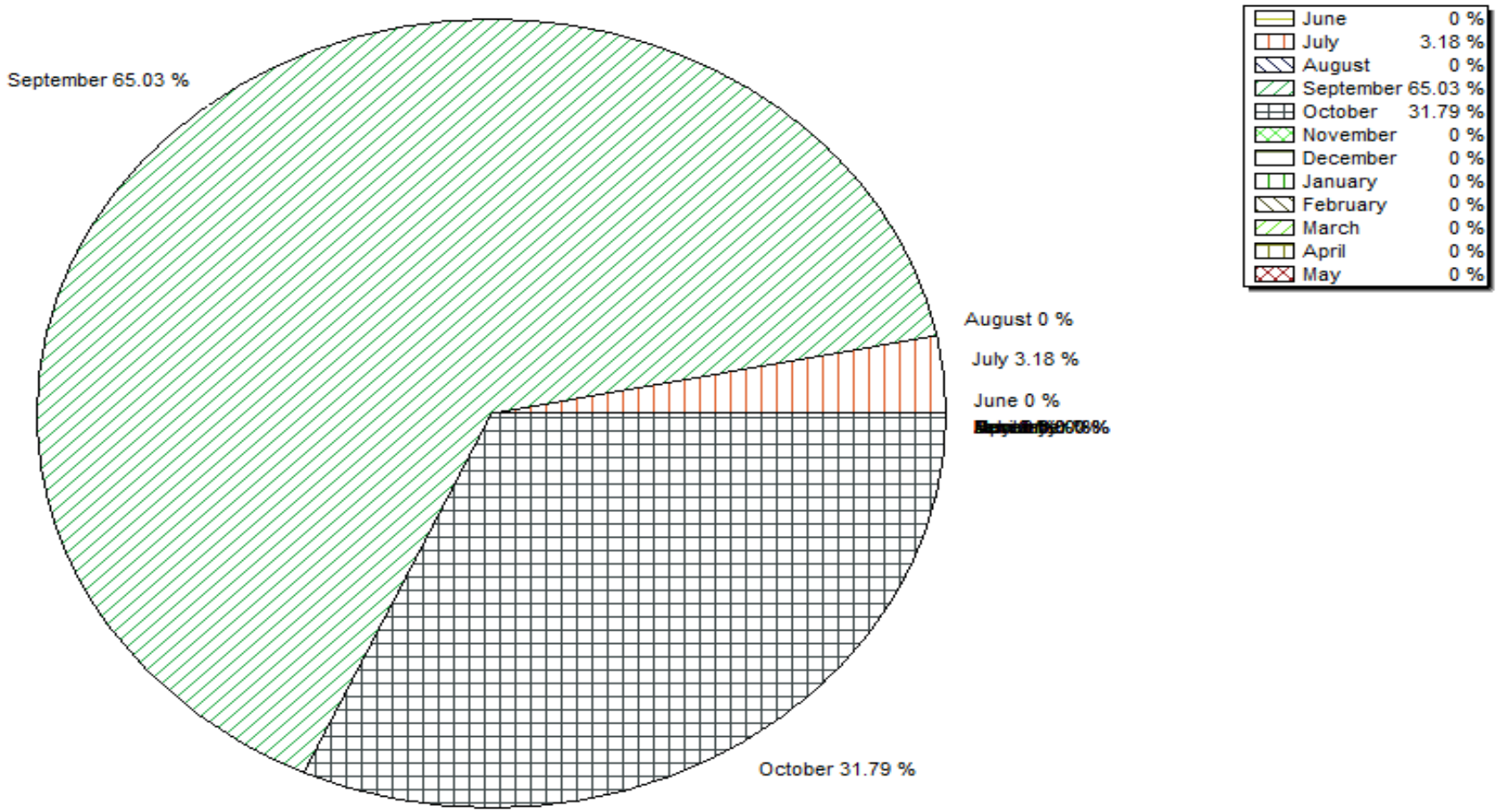
Monthly Runoff for the Year : 2016-2017

Station Name : NANDED (NANDED)

Division : Upper Godavari Div., Hyderabad

Local River : Godavari

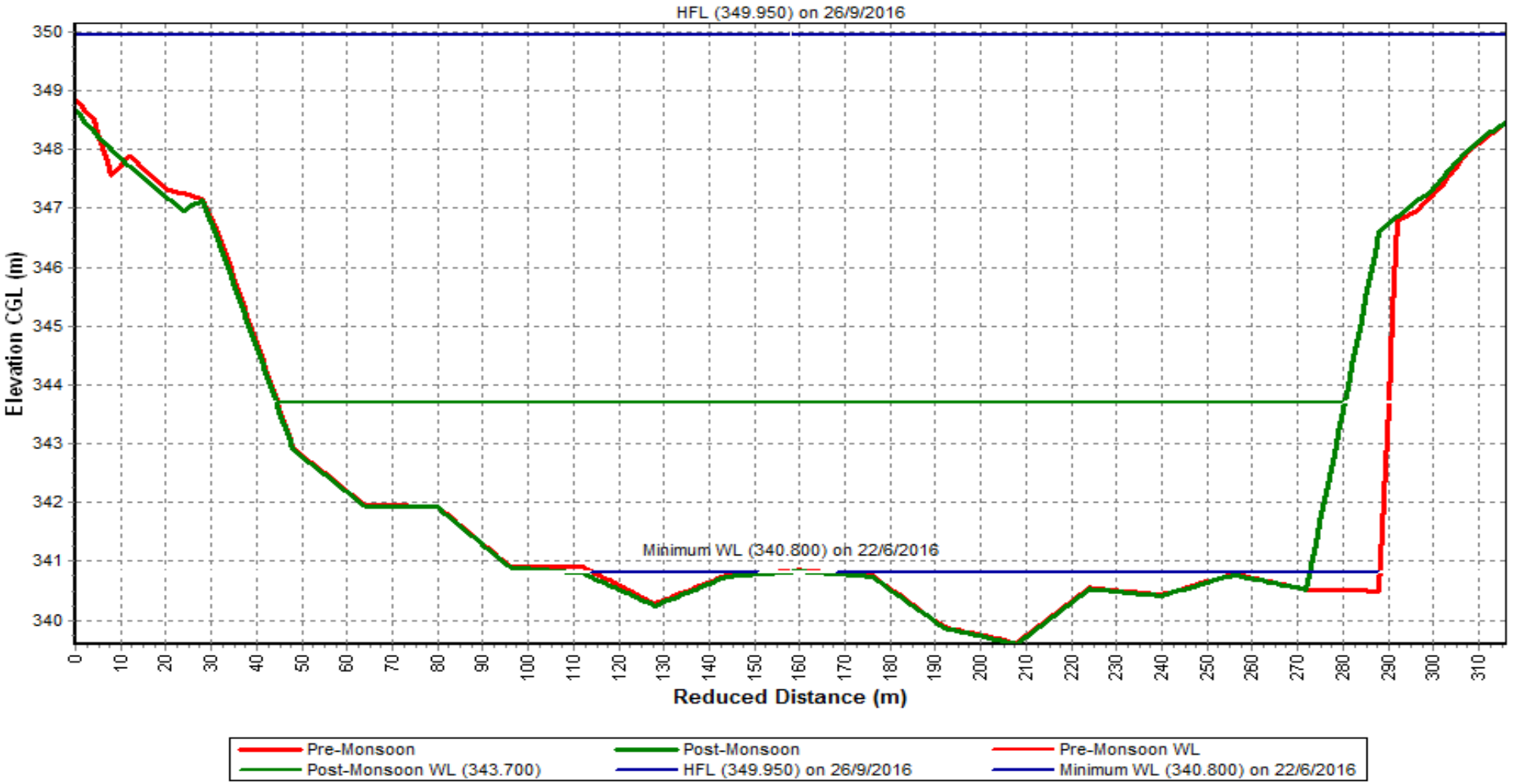
Sub-Division : Purna SD, Nanded



Pre-Monsoon & Post-Monsoon X-Section for Water Year : 2016-2017

Station Name : NANDED (NANDED) **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



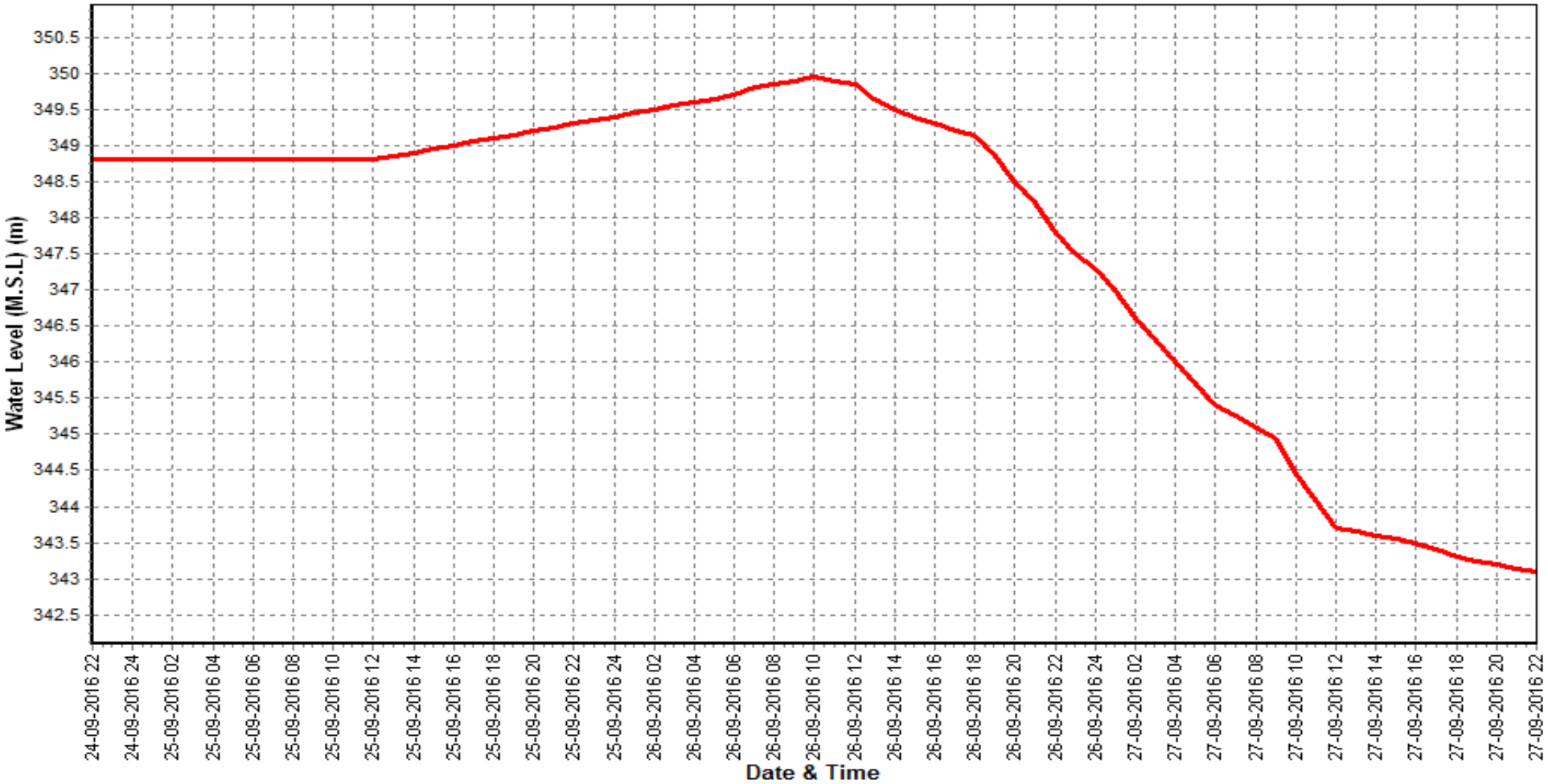
Water Level vs. Time - Graph of Highest Flood Peak during the Year : 2016-2017

Station Name : NANDED (NANDED)

Local River : Godavari

Division : Upper Godavari Div., Hyderabad

Sub-Division : Purna SD, Nanded

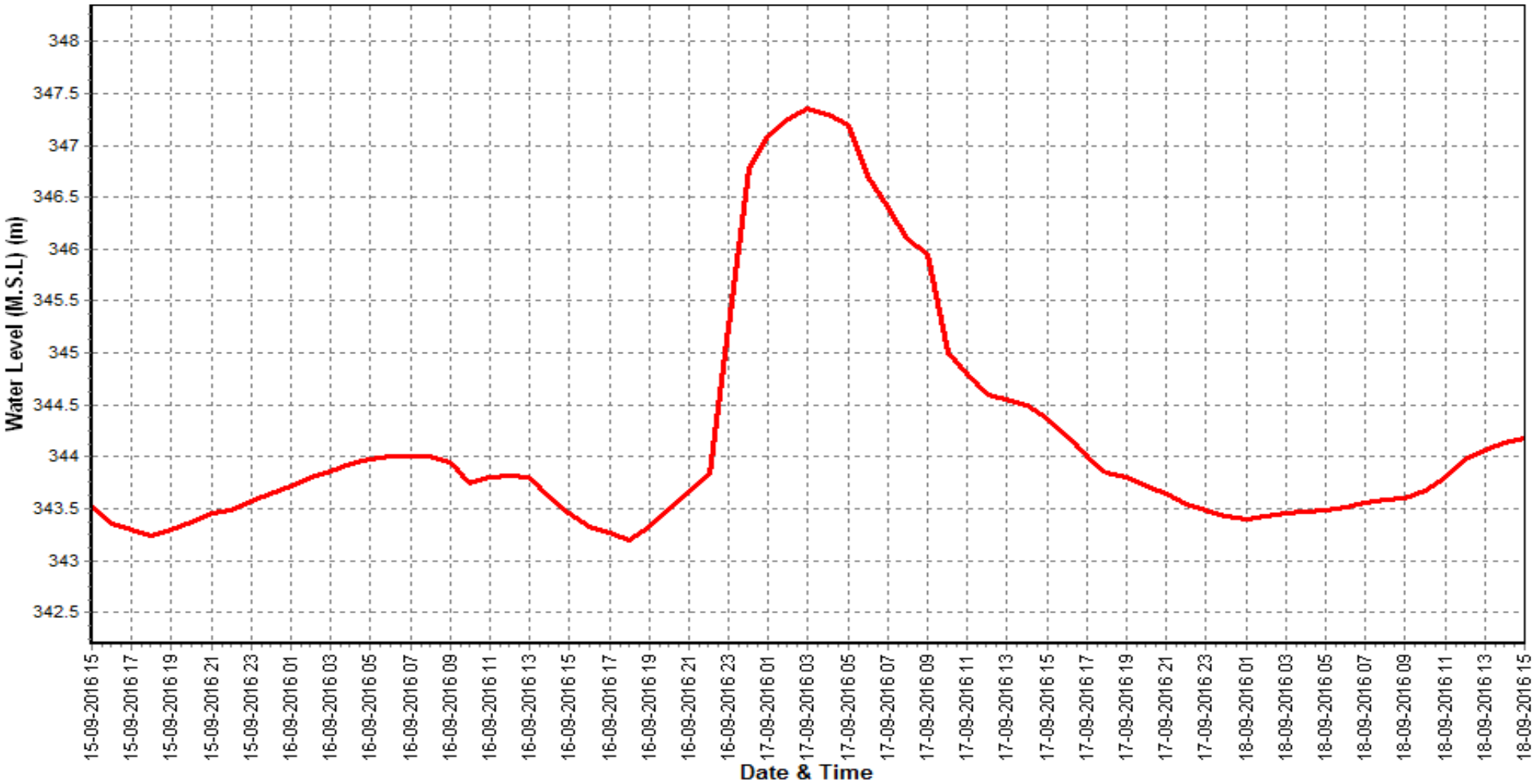


Time Span: 72 Hrs

Water Level vs. Time - Graph of 2nd Highest Flood Peak during the Year : 2016-2017

Station Name : NANDED (NANDED) **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**

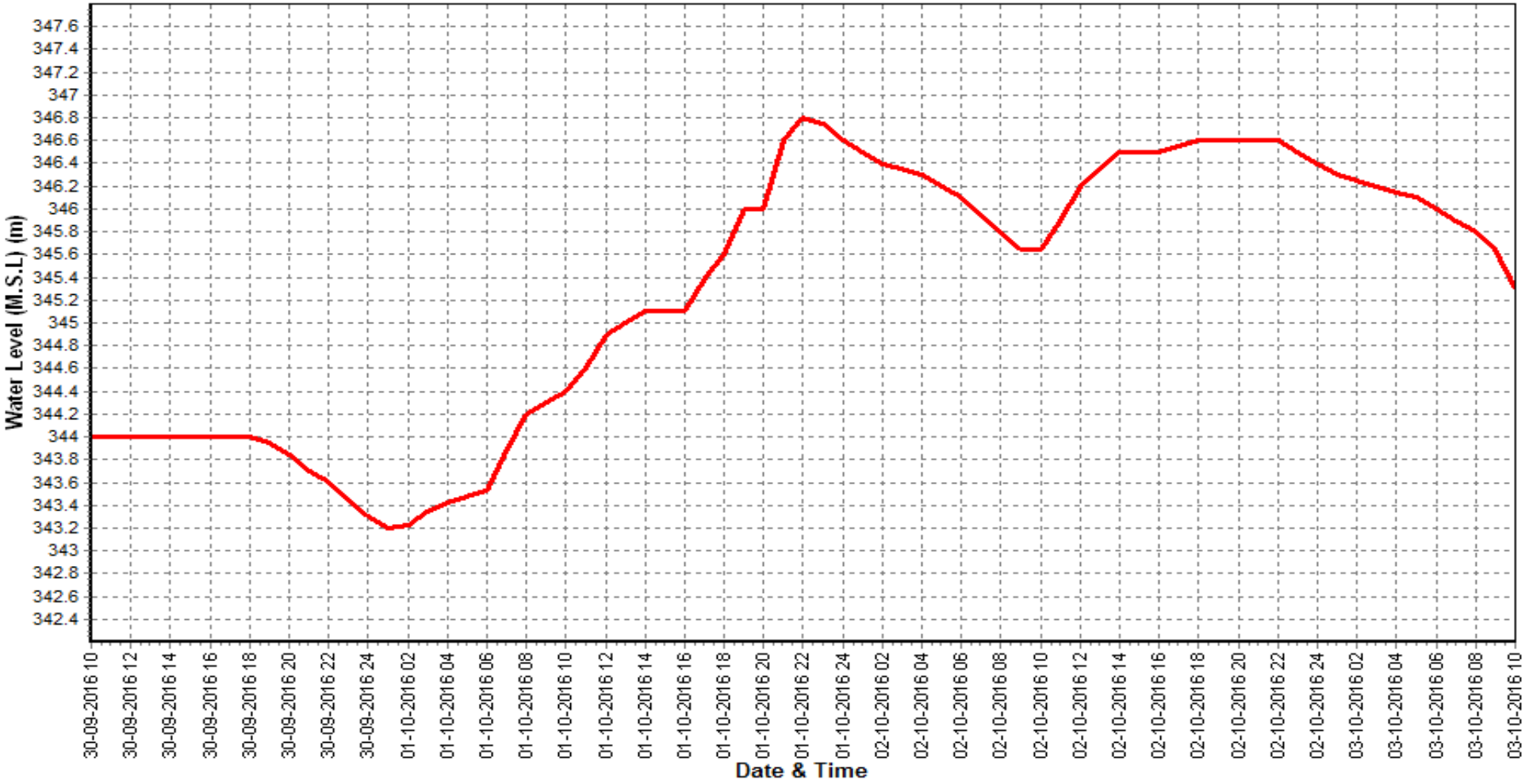


Time Span: 72 Hrs

Water Level vs. Time - Graph of 3rd Highest Flood Peak during the Year : 2016-2017

Station Name : NANDED (NANDED) **Division : Upper Godavari Div., Hyderabad**

Local River : Godavari **Sub-Division : Purna SD, Nanded**



Time Span: 72 Hrs