

No. 16/27/2018-PA (N)/ 939-70  
**Government of India**  
**Central Water Commission**  
**Project Appraisal Organization**

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R.K. Puram, New Delhi.  
Dated: 14/06/2018

**Sub: Summary Record of Discussions of 136<sup>th</sup> meeting of Advisory Committee on  
Irrigation, Flood Control and Multipurpose Projects**

A copy of summary Record of discussions of 136<sup>th</sup> meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 06.06.2018 is enclosed herewith for information and further necessary action please.

Comments, if any, may kindly be forwarded to the undersigned within 15 days.

Enclosed: As above

  
14/6/2018  
Chief Engineer (PAO) &  
Member Secretary of the Advisory Committee

To,

**Members of Committee:**

1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
2. Secretary (Expenditure), Ministry of Finance, 1<sup>st</sup> Floor, North Block, New Delhi.
3. Secretary, Department of Power, Room No. 205, S.S. Bhawan, II<sup>nd</sup> Floor, New Delhi.
4. Secretary, Ministry of Environment & Forests & CC, 4<sup>th</sup> Floor, Prithvi Block, Indira Paryavaran, Jor Bagh, New Delhi.
5. Secretary, Department of Agriculture, Cooperation & Farmers Welfare, R.No. 126, Krishi Bhawan, New Delhi.
6. Secretary, Ministry of Tribal Affairs, Room No. 738, A-Wing, Shastri Bhawan, New Delhi.
7. Director General, ICAR, Room No-108, Krishi Bhawan, New Delhi.
8. Chairman, CEA, Sewa Bhawan, R. K. Puram, New Delhi.
9. Chairman, Central Ground Water Board, Jam Nagar House, New Delhi.
10. Adviser (Power), NITI Aayog, Room No. 248, Yojana Bhawan, New Delhi.
11. Adviser (WR), NITI Aayog, Room No. 230, Yojana Bhawan, New Delhi.
12. Joint Secretary & Financial Adviser, MoWR, RD & GR, Room No-401, S.S. Bhawan, New Delhi.

**Special Invitees:**

13. Member (WP&P), CWC, New Delhi.
14. Member (D&R), CWC, New Delhi.
15. Member (RM), CWC, New Delhi.
16. Chairman, GFCC, Patna.
17. Sh. Sanjay Kundu, Joint Secretary (RD&PP), MoWR, RD&GR.
18. Sh. Akhil Kumar, Joint Secretary (IC&GW), MoWR, RD&GR.
19. Principal Secretary, WRD, Govt. of Bihar, Patna.
20. Principal Secretary, I&PH Dept, Govt. of Himachal Pradesh, Shimla.
21. Principal Secretary, WRD, Govt. of Puducherry.
22. Principal Secretary, WRD, Govt. of Maharashtra, Mumbai.
23. Principal Secretary, WRD, Govt. of Telangana.
24. Principal Secretary, I&WD, Govt. of West Bengal, Kolkata.
25. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
26. Commissioner (State Projects), MoWR, RD & GR, Room No-411, S. S. Bhawan, New Delhi.
27. Commissioner (FM), MoWR, RD & GR, CGO Complex, 11th Block, 8th Floor, Lodhi Road, New Delhi.
28. Chief Engineer (FMO), CWC, New Delhi.
29. Chief Engineer (IMO), CWC, New Delhi.

**Copy for kind information to:**

30. Sr. PPS to Secretary, MoWR, RD & GR, Room No. 407, Shram Shakti Bhawan, New Delhi.

**Government of India**  
**Ministry of Water Resources, River Development & Ganga Rejuvenation**  
**Central Water Commission**

**SUMMARY RECORD OF DISCUSSIONS OF THE 136<sup>th</sup> MEETING OF THE  
ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-  
ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD  
CONTROL AND MULTIPURPOSE PROJECT PROPOSALS HELD ON  
WEDNESDAY, JUNE 6<sup>th</sup>, 2018 AT CENTRAL WATER COMMISSION, NEW  
DELHI**

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The 136th meeting of the Advisory Committee of Ministry of Water Resources, River Development & Ganga Rejuvenation (MoWR, RD&GR) for consideration of techno-economic viability of major & medium irrigation, flood control and multi-purpose project proposals was held under the Chairmanship of Shri U.P. Singh, Secretary to the Government of India, MoWR, RD & GR on Wednesday, 6th June, 2018 at Central Water Commission, New Delhi. The list of members of the Committee or their representatives/ nominees/ Special Invitees and Officers from various Ministries/ Organizations and representatives of State Governments who attended the meeting is at Annexure-I.

At the outset, the Secretary (WR, RD & GR) and Chairman, Advisory Committee welcomed the participants. Thereafter, the agenda items were taken up one by one:

**(i) Confirmation of the minutes of 135<sup>th</sup> meeting of the Advisory Committee**

CE (PAO), CWC and Member Secretary of Advisory Committee stated that the 135<sup>th</sup> meeting of the Advisory Committee of MoWR, RD&GR on Irrigation, Flood Control and Multi-purpose Projects was held on 12.03.2018. Summary Record of Discussions was circulated vide letter No. 16/27/2017-PA (N)/380-407 dated 23.03.2018. As no comments on the Summary Record were received, Advisory Committee confirmed the Summary Record as circulated.

**(ii) Follow up action after the 135<sup>th</sup> meeting of the Advisory Committee**

**1. Noa Dihing Dam Project, Arunachal Pradesh, National Project (Estimated Cost Rs. 1291.93 Crore @ Price Level May 2017, B.C. Ratio 1.41:1)**

The project was last considered in the 135th meeting of Advisory Committee of MoWR, RD & GR held on 12.03.2018. As the ownership of the project and the source of funding were not clear and overall economic viability of the project had not been established the Advisory Committee had then decided that the project may be deferred

and again put up to Advisory Committee once the above issues got resolved.

In this regard, CE, PPO, CWC apprised the Committee about the present status of the project. Brahmaputra Board has taken up matter with the Water Resources Department, Govt. of Arunachal Pradesh vide letter dated 29.05.2018 to take up the ownership of the Project as all the Project components including command areas fall completely in Arunachal Pradesh itself. The latest copy of the DPR has also been provided to the Govt. of Arunachal Pradesh.

**(iii) Project Proposals considered by the Advisory Committee**

**A. Irrigation and Multi-purpose Projects**

**1. Revised Cost Estimate of Upper Pravara (Nilwande-II) Project, Maharashtra (RCE, Major Irrigation; Estimated Cost Rs. 2232.62 Crore @ PL 2016-17, B.C. Ratio 1.53:1)**

A presentation on the Project was made by Project Authority. It was informed that the Project was put up to Advisory Committee of MoWR, RD&GR in its 125<sup>th</sup> meeting held on 25.05.2015. Project was considered and deferred due to the fact that concurrence of State Finance Department (SFC) had not been submitted at that time. Upper Pravara Project (Nilwande-II Dam), Maharashtra envisages construction of a masonry dam with gross storage of 236 MCM and live storage of 232.18 MCM across river Pravara, a tributary of Godavari River, near village Nilwande, Taluka Akole, District Ahmednagar, Maharashtra. The project is planned to irrigate a Culturable Command Area (CCA) of 86,100 Ha with the annual irrigation of 68,878 Ha in drought prone areas of Ahmednagar and Nasik Districts of Maharashtra with intensity of irrigation of 80%. Besides, the Project has a provision of drinking water to the tune of 13.15 MCM and provision for 11.60 MW of power generation. The cost of the present proposal has been estimated to be Rs. 2232.62 Crore (Price Level 2016-17) with benefit cost ratio as 1.53:1.

Secretary (WR, RD & GR) observed that most of the head works of the project had been completed. He instructed to expedite the rest of the land acquisition for the project, so that the project may be completed expeditiously as the project is in Special Package for Irrigation Projects to address agrarian distress in 14 suicide prone districts of Vidharbha and Marathwada and other chronically drought prone areas of rest of Maharashtra. On being enquired as to whether Ministry of Tribal Affairs (MoTA) guidelines for the project had been implemented, Project Authority informed that the instructions of MoTA had been implemented in letter and spirit. Members of the Committee observed that the project was in advanced stage and State Government should allocate sufficient funds to complete the project as per scheduled completion period.

After detailed deliberations, the proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by the Advisory Committee of MoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD & GR such as PMKSY, RRR, FMP etc.

**2 Kaleshwaram Project, Telanagana (New, Major, Irrigation; Estimated Cost Rs. 80190.46 Crore @ PL 2015-16, B.C. Ratio 1.51:1)**

A presentation on the Project was made by the Project Authority/ consultant. It was informed that Kaleshwaram Project, Telengana comprises main barrage at Medigadda Village, below the point of confluence of Pranahita and Godavari River about 20 Km d/s of Kaleshwaram village. Two more barrages i.e Annaram and Sundilla have been proposed for the purpose of lifting of required quantum of water from Godavari River and to link it to Sripada Rao Yellampally Project, subsequently diverting the water to Mid Manair reservoir and other reservoirs. The project is having Culturable Command Area (CCA) of 738851 Ha & annual irrigation of 961497 Ha with intensity of irrigation as 130.13%. Further, this Project will stabilize 762028 Ha of land under different projects of the State. In addition to this, this Project will provide 40 TMC (1133 MCM) of drinking water to Hyderabad, Secunderabad and villages enroute and 16 TMC (453 MCM) of industrial water. It is to provide irrigation in Karimnagar, Rajanna Sircilla, Siddipet, Medak, Yadadri-Bhongir, Nalgonda, Sangareddy, Nizamabad, Jagityal, Kamareddy, Nirmal, Medchal and Peddapalli (13 Nos.) districts of Telengana State. The cost of the present Project has been estimated to be Rs. 80190.46 Crore (Price Level 2015-16) including 15 years of Operation and Maintenance period for the lift system and 5 years for the civil works with benefit cost ratio as 1.51:1.

The Project Authority informed that one package having about 2,00,000 acre in the Command Area will be having piped irrigation as a pilot project keeping in view the importance of evaporation losses as the area concerned is drought prone. Members of the Committee expressed their concern about the annual R&M of the project and annual power requirement is of 4627 MW with annual energy of 13,829 MU. Secretary (WR, RD & GR) advised that State Government shall provide necessary funds and electricity for the success of the project and construction and maintenance should be on turnkey basis. Engineer-in-Chief, Telangana explained that provision for the same had already been incorporated in the estimate. Members felt that although the annual cost of the project was considerably high, most of the command of the Project being located in drought prone areas with no water available for the cultivation, the Project was very important for the development of the State.

In view of the above, the Project was accepted by the Committee. However, the acceptance of the proposal by the Advisory Committee of MoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD & GR such as PMKSY, RRR, FMP etc.

**B. Flood Control Projects**

**1. Mahananda Flood Management Scheme Phase-II, Bihar (Estimated Cost Rs. 791.066 Crore @ 2016 PL, B.C. Ratio 1.50:1)**

A presentation on the proposal was made by the Project Authority. It was informed that this scheme is proposed to protect an area of 114000 Ha with a population of 46.18 lakh from Mahananda, Ratwa and Nagar Rivers in Purnia, Kathiar, Kisanganj, Araria districts of Bihar. The proposed scheme envisages construction of 5 nos. embankments having a total length of 198.37 km, 366 nos. ramps, 45 nos. turning platforms, 10 nos. of new Anti Flood Sluices.

It was also informed that this is Phase II of the Mahananda Flood Management Scheme which was earlier accepted in 91<sup>st</sup> meeting of Advisory Committee of MoWR, RD&GR for Rs. 603.88 Crore held on 07.11.2007. In a meeting between Chairman, GFCC and State Government officers held on 27.10.2009, it was decided to bifurcate the "Mahananda scheme for raising and strengthening of left and right embankment and construction of new embankment" into (a) raising and strengthening and (b) new construction.

Now the Phase-II of the project has been proposed by the Project Authority and the estimated cost has been finalized as Rs. 791.066 Crore (PL 2016) by GFCC. The techno-economic appraisal has been done by GFCC and the scheme has been found to be techno-economically viable.

On a query regarding land acquisition, it was informed by the Project Authority that an amount of Rs 341 Crore (approximately) had already been deposited with Land Acquisition Department.

After detailed deliberation, the Advisory Committee accepted the proposal. However, the acceptance of the proposal by the Advisory Committee of MoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD & GR such as PMKSY, RRR, FMP etc.



**2 Flood Protection/ Channelization of Seer Khad from Barchhawar to Jahu Bridge in Tehsil Sarkaghat, Himachal Pradesh (Estimated Cost Rs. 157.66 Crore @ February 2018 PL, B.C. Ratio 1.59:1)**

A presentation on the proposal was made by the Project Authority. It was informed that this scheme is proposed to protect an area of 115 Ha with a population of about 10000 from Seer Khad River in Mandi district of Himachal Pradesh.

The proposed scheme envisages providing earthen embankments with wire crated aprons in a stretch of 11.88 km from Barchhawar Bridge to Jahu Bridge on both banks of Seer Khad (7510 m on left bank and 7640 m on right bank) at different RDs. It is also proposed to provide 9 nos. spurs having length between 7-15 m at different RDs.

The project proposal was discussed in detailed manner and was accepted by the Advisory Committee. However, the acceptance of the proposal by the Advisory Committee of MoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD & GR such as PMKSY, RRR, FMP etc.

**3 Flood Protection Works in Yanam, Puducherry (Estimated Cost Rs. 137.28 Crore, B.C. Ratio 1.05:1)**

A presentation on the proposal was made by the Project Authority. It was informed that this scheme is proposed to protect an area of 3000 Ha with a population of about 56000 from Gouthami Godavari River in Yanam district of Puducherry. The proposed scheme envisages raising and strengthening of existing embankments along with flood wall and construction of Bank Revetment stone pitching on river side slope of embankment with launching apron of 32.40 m width (using gabions of size 2.0m\*1.0m\*1.0m) in the critically erosion affected reaches.

It was informed that the original project was accepted in 101st meeting of Advisory Committee of MoWR, RD & GR for an estimated cost of Rs. 139.67 Crore and was accorded Investment Clearance by the then Planning Commission vide Lr. No. 22 (155)/07-WR dated 22.01.2010 for completion in two years i.e. by March 2012. The scheme was approved by Empowered Committee of MoWR, RD & GR on 12.07.2010 for a cost of Rs. 138.21 Crore. However, due to unforeseen reasons, the project got delayed and in the latest instance the Government of Puducherry, vide letter dated 19.08.2016, requested the MoWR, RD & GR for validation of investment clearance upto July, 2018 for completion of the project. Subsequently, a multidisciplinary team was constituted by Secretary, MoWR, RD & GR to assess the ground realities and make suitable recommendations. The project was inspected by team on 8<sup>th</sup> and 9<sup>th</sup> November, 2016 and the report was submitted on 8<sup>th</sup> December, 2016. Based on the report of the



multi-disciplinary team, the revised DPR having an estimated cost of Rs. 137.28 Crore was submitted to CWC HQ through C&SRO, CWC, Coimbatore.

After detailed deliberations, the Project was accepted subject to following conditions:

1. The implementation of the Project should be strictly as per the proposal approved by the Advisory Committee in this meeting.
2. All efforts should be made to complete the Project within 1½ years instead of 2 years.
3. The acceptance is subject to No-Objection from the Government of Andhra Pradesh which needs to be obtained by the Project Authority.
4. The proposal is accepted subject to submission of State Finance Concurrence by the Project Authority.

**4 Phase-I Works of Ghatal Master Plan in Paschim Medinapur and Purba Medinapur districts of West Bengal (Estimated Cost Rs. 1238.95 Crore @ 2017 Price Level, B.C. Ratio 1.45:1)**

A presentation on the proposal was made by the Project Authority. It was informed that this scheme is proposed to protect an area of 65700 Ha with a population of about 8.74 lakhs from Kangsabati, Silabati, Dwarkeswar and Rupnarayan Rivers in Paschim Medinipur and Purba Medinipur Districts of West Bengal. The proposed scheme envisages re-excavation of drainage rivers/channels and improvement of appurtenant embankments, construction of Pump Houses in Ghatal municipal area, provision of regulators/major outfall sluices, construction of retaining wall like structure from Vidyasagar Setu to 2.00 km downstream to protect Ghatal municipal area on left bank of Silabati river from flood spill, widening of waterways of existing bridges and construction of new bridges.

On a query regarding land acquisition, it was informed by the Project Authority that only 20 Ha of land is to be acquired for this project and there seems to be no problem in this regard.

The proposal was accepted subject to submission of State Finance Concurrence by the Project Authority. However, the acceptance of the proposal by the Advisory Committee of MoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD & GR such as PMKSY, RRR, FMP etc.

The meeting ended with a vote of thanks to the Chair.

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**LIST OF OFFICERS PRESENT IN THE 136<sup>th</sup> MEETING OF THE ADVISORY COMMITTEE ON IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECTS ON WEDNESDAY, THE 6<sup>th</sup> JUNE, 2018 AT 10:00 HRS IN THE COMMITTEE ROOM OF CENTRAL WATER COMMISSION, 2<sup>nd</sup>FLOOR, SEWA BHAWAN, R K PURAM, NEW DELHI.**

Shri U.P. Singh, Secretary, MoWR, RD&GR

**In Chair**

**Members, Advisory committee or their representatives / nominees**

**S/Shri**

- |  |                  |
|--|------------------|
| 1. S. Masood Husain, Chairman, Central Water Commission  | Member           |
| 2. Jagmohan Gupta, JS & FA, MoWR, RD& GR   | Member           |
| 3. Avinash Mishra, Joint Advisor, (Representing Advisor, WR)   | Member           |
| 4. Dr. E. Sampath Kumar, Member, Central Ground Water Board (Representing Chairman, Central Ground Water Board). | Member           |
| 5. J.S. Bawa, Chief Engineer, CEA, M/o Power (Representing Chairman, CEA)  | Member           |
| 6. Adul Islam, Pr. Scientist, ICAR (Representing D.G., ICAR)   | Member           |
| 7. Shyla Titus, Dy. Secretary, M/o Tribal Affairs (Representing Secretary, Tribal Affairs)                       | Member           |
| 8. C.K.L. Das, Chief Engineer, Project Appraisal Organization, CWC   | Member Secretary |

**MoWR, RD&GR**

**S/Shri**

1. Akhil Kumar, Joint Secretary (IC&GW)
2. J. Chandrashekhar Iyer, Commissioner (FM)
3. Bhupesh Kumar, Sr. Joint Commissioner (PP)
4. Rishi Kumar, Dy. Director, PMKSY

**Central Water Commission**

**S/Shri**

1. N.K. Mathur, Member (D&R), CWC
2. Y.K. Sharma, Member (RM) and I/C WP&P, CWC
3. Navin Kumar, Chief Engineer, IMO, CWC
4. R.K. Pachauri, Chief Engineer, PPO, CWC
5. M.S. Dhillon, Chief Engineer, FMO, CWC
6. G.L. Bansal, Director, NP Dte., CWC
7. B.C. Vishwakarma, Director, IP(S) Dte., CWC
8. K.V. Prasad, Director, FM-I Dte, CWC
9. P. Devender Rao, Director, BCD(N&W) Dte., CWC
10. Piyush Kumar, Director, FMP Dte. CWC
11. Piyush Ranjan, Director, PA (N) Dte., CWC
12. S.S. Bonal, Director, CMC Dte. And I/C CA (Irrigation)-2 Dte.
13. Dr. D.R. Mohanty, Dy. Director, PA (S) Dte., CWC
14. A.K. Madhok, Dy. Director, PA (C) Dte., CWC
15. Shiv Sunder Singh, Dy. Director (WSE) Dte., CWC
16. Manjeet Kaur, Dy. Director, Hydrology (S) Dte., CWC
17. Ankit Dudeja, Dy. Director, Hydrology (DSR) Dte., CWC
18. Sharad Kumar Kaushal, Assistant Director, PA (S) Dte., CWC
19. Ishan Srivastva, Assistant Director, PA (N) Dte., CWC
20. Durgendra Singh, AD-II, PA (N) Dte., CWC

**Ganga Flood Control Commission**

**S/ Shri**

1. Arun Kumar Sinha, Chairman, GFCC, Patna
2. Ajit Kumar, Director, GFCC, Patna

## **Officers from State Government**

### **Bihar**

**S/Shri**

1. S.S. Pandey, Chief Engineer, Flood Control & Drainage, Katihar, Bihar
2. C. Chandra Mishra, Resident Engineer, WRD, Bihar

### **Himachal Pradesh**

**S/Shri**

1. Anil Bahri, Engineer-in-Chief, Irrigation & Public Health Department, Govt. of H.P.
2. Rakesh Mahajan, Chief Engineer, Hamirpur, Irrigation & Public Health Department, Govt. of H.P.
3. N.M. Saini, Superintending Engineer, Una, Irrigation & Public Health Department, Govt. of H.P.
4. Avinder Chaddha, Superintending Engineer, Hamirpur, Irrigation & Public Health Department, Govt. of H.P.

### **Maharashtra**

**S/Shri**

1. K.B. Kulkarni, Chief Engineer, Maharashtra
2. Alka Ahirrao, Superintending Engineer, Maharashtra
3. Ravindra Bagul, Executive Engineer, Maharashtra
4. Vivek H. Larhat, Assistant Engineer, Maharashtra
5. Mahesh M. Kulkarni, Engineer, Maharashtra

### **Puducherry**

**S/Shri**

1. V. Sathyamurthi, Chief Engineer, PWD, Puducherry
2. E. Ramadoss, Executive Engineer, PWD, Yanam, Puducherry
3. P.V.N. Bhaskara Rao, Dy. Executive Engineer, PWD, Yanam, Puducherry

### **Telangana**

**S/Shri**

1. C. Muralidhar, Engineer-in-Chief (Irrigation), Hyderabad, Telangana
2. B. Hari Ram, Engineer-in-Chief (Kaleswaram Project), Hyderabad, Telangana
3. B. Deva Sahayam, Dy. Chief Engineer (Kaleswaram Project), Hyderabad, Telangana
4. Zameer Ahmed, Director (Tech.), NCPE, Hyderabad, Telangana
5. V. Balraj, Dy. Executive Engineer (Kaleswaram Project), Hyderabad, Telangana
6. M. Srinivas Reddy, Dy. Executive Engineer (Kaleswaram Project), Hyderabad, Telangana
7. Nilabha Dey, Consultant (Kaleswaram Project), Hyderabad, Telangana

### **West Bengal**

**S/Shri**

1. Anish Ghosh, Chief Engineer, I&W Department, Govt. Of West Bengal
2. Biplab Mukharjee, Dy. Secretary, I&W Department, Govt. Of West Bengal

### **WAPCOS**

**S/Shri**

1. Shambhu Azad, Executive Director, WAPCOS Ltd.
2. K. Rakesh, Engineer, WAPCOS Ltd.

