

File No. T-28030/1/2022-CE-PAO

**Government of India  
Central Water Commission  
Project Appraisal Organization**

Telefax: 011-2958351  
Email: [ceprjap@nic.in](mailto:ceprjap@nic.in)

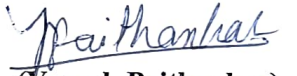
7<sup>th</sup> Floor (S), SewaBhawan,  
R.K. Puram, New Delhi.  
Dated: 16.03.2022

**Minutes of Meeting**

A copy of the Summary Record of discussion of the 149<sup>th</sup> Meeting of the Advisory Committee of DoWR, RD&GR on Irrigation, Flood Control & Multipurpose Projects held under the Chairmanship of Secretary, Department of Water Resources, River Development & Ganga Rejuvenation on 07.03.2022 through video conferencing is enclosed herewith for information and further necessary action, please.

It is requested that comments, if any, on the enclosed Summary Record of Discussion, may kindly be forwarded to this office within 15 days.

**Encl: As above.**

  
(Yogesh Paithankar)

**Member Secretary of the Advisory Committee &  
Chief Engineer (PAO)**

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 Floor, New Delhi.
4. Secretary, Ministry of Environment & Forests & CC, 4<sup>th</sup> Floor, Prithvi Block, Indira Paryavaran, JorBagh, 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.

**File No. T-28030/1/2022-CE-PAO**

11. Adviser (WR&LR), NITI Aayog, Room No. 230, Yojana Bhawan, New Delhi.
12. Joint Secretary & Financial Adviser, DoWR, RD & GR, Room No-401, Shram Shakti Bhawan, New Delhi.

**Special Invitees:**

1. Additional Secretary, DoWR, RD&GR ,New Delhi.
2. Member (D&R), CWC, New Delhi.
3. Member (RM), CWC, New Delhi.
4. Member (WP&P), CWC, New Delhi.
5. Principal Secretary, WR, Govt. of Madhya Pradesh, Bhopal
6. Joint Secretary (RD&PP), DoWR, RD&GR, New Delhi.
7. Joint Secretary (IC&GW), DoWR, RD&GR, New Delhi.
8. Chief Advisor (Cost), Department of Expenditure, Lok Nayak Bhawan, New Delhi.
9. Commissioner (SPR), DoWR, RD & GR, New Delhi.
10. Commissioner (FM), DoWR, RD & GR, New Delhi.
11. Chief Engineer (FMO), CWC, New Delhi.
12. Chief Engineer (IMO), CWC, New Delhi.
13. Chief Engineer (BODHI), Govt. of Madhya Pradesh, Bhopal
14. Chief Engineer (NBO), Bhopal, CWC

**Copy for kind information to:**

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

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**Government of India  
Ministry of Jal Shakti  
Deptt. of Water Resources, River Development & Ganga Rejuvenation  
Central Water Commission  
Project Appraisal Organization  
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**ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC  
VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD CONTROL AND  
MULTIPURPOSE PROJECT PROPOSALS**

**149<sup>th</sup> MEETING HELD ON 7<sup>th</sup> MARCH 2022 THROUGH VC**

**SUMMARY RECORD OF DISCUSSIONS**

The 149<sup>th</sup> meeting of the Advisory Committee of Department of Water Resources, River Development & Ganga Rejuvenation (DoWR, RD&GR), Ministry of Jal Shakti (MoJS), for consideration of techno-economic viability of major & medium irrigation, flood control and multipurpose project proposals (Advisory Committee), was held under the Chairmanship of Shri Pankaj Kumar, Secretary to the Government of India, DoWR, RD&GR, MoJS on Monday, 7<sup>th</sup> March, 2022 through video conferencing. The list of participants is at **Annexure**.

At the outset, the Chairman welcomed the participants and requested Member-Secretary to take up the agenda items.

A brief record of the decisions taken in the meeting are given below :

**I. Confirmation of the Minutes of the 148<sup>th</sup> Meeting of the Advisory Committee :**

Member Secretary informed that the 148<sup>th</sup> Meeting of the Advisory Committee was held on 17.01.2022 through Video Conferencing. The Summary Record of Discussions was circulated vide letter no T-28074/1/2022-CE-PAO dated 03.02.2022.

Representative from MoTA requested that Summary Record of Discussions should clearly mention about the mandatory MoTA clearances, to be taken by project



authorities, wherever tribal population is involved in project areas, so that, unnecessary delay in project clearance can be avoided.

Member Secretary informed that all statutory clearances related information including that of MoTA are clearly mentioned in the Minutes issued. Chairman of the committee reiterated that this may again be noted and pursued while implementation of the projects.

Thereafter, the Committee confirmed the Minutes of 148<sup>th</sup> meeting of the Advisory Committee.

## **II. Project Proposal Considered by the Advisory Committee :**

**Erosion protection at right bank & Ghat construction work at left bank of Mandakini River in Chitrakoot, District - Satna, Madhya Pradesh. (Estimated Cost Rs. 30.09 Cr at April 2021 Price Level, BC Ratio 1.11, Area Benefited 181.5 ha)**

A detailed presentation was made by SDO, Satna, WRD, Govt. of Madhya Pradesh.

It was intimated that River Mandakini brings flash flood in Monsoon season. It affects the soil structure, soil properties, and slopes of river banks mainly near the Chitrakoot dham ,where flood water releases its energy. The impact of the flood water erosion is enormous as land gets washed away affecting the land owners, farmers and ghat areas.

It was informed that control of erosion is the prime concern for this project. Soon, monsoon flood water may ingress into the town through eroded gullies of the banks. Several small nallas having catchment area ranging from 0.8 to 1.0 Square kilometer, emerging from right bank of Mandakini river, will be treated or, diverted to avoid flood congestion during construction, adopting suitable measures.



The Project Proposal has been prepared to provide soil erosion protection and anti-erosion measures at right bank and ghat construction at left bank of river Mandakini. It was intimated that protected area mainly consists of valuable land, residential area, temples, public properties, Govt buildings, commercial properties with a population of 3650 leaving in the Jankikund area in Chitrakoot of Majhgawan Tehsil of Satna District.

On the entire 600m length of right bank, erosion protection work is provided in the form of Articulated Concrete Blocks (ACB) of 0.3 meter thickness with launching apron of size 7.5m X 0.45 m.

On the left bank side having a length of 300m, soil erosion protection work by creating ghat of vertical height of 5.7m with toe wall of 2.7m for the entire length of 300m will be provided, as confirmed during presentation by the project authorities.

It was further informed that the area to be benefited is 181.50 ha (145.00 ha. on right bank & 36.50 ha. on Left bank side), while the cost has been estimated as Rs 30.09 Crore at April 2021 Price level with Benefit cost ratio (BCR) working out to be 1.11.

It was also brought to notice of the Advisory Committee that Design of works has been vetted by Central Design Office (CDO) of Madhya Pradesh i.e. Bureau of Design for Hydel and Irrigation Projects (BODHI). Peak design flood discharge for Mandakini River of 1 in 50 years return period is taken as 2567 cumecs at site under consideration.

Project authorities also informed that necessary forest clearance has been obtained from the concerned authorities. Also, as per the MoEF & CC Gazette Notification dated 15.09.2006, flood management projects are not included in the List of projects, which require prior environmental clearance.

However, it was informed that State finance concurrence is yet to be obtained and the scheme is proposed to be completed within a period of 1 (one) year time.

Advisor (Cost), Ministry of Finance mentioned that estimated cost of Rs 30.09 crore has been worked out at price level April, 2021, which is one year old. If estimated cost is updated @ 5% per annum increase, the cost of the project would be updated at current



price level to Rs 31.59 crore. Accordingly, cost for the purpose of BC ratio would increase from existing Rs 511.46 lakh to Rs 537.03 lakh. He also added that as per his calculations, with the revised cost data of Rs 537.03 lakh and revised benefit of Rs 515.15 lakh (due to Rs 50.39 lakh extra anticipated benefits, assessed by project authorities), BC ratio would reduce to 0.96 as against finalized BC Ratio of 1.11.

In reply, Member (RM), CWC clarified that anticipated benefits for the Scheme for both the banks have been worked out by considering rate of loss of land from 2003 to 2020 and superimposing the same for erosion during next 50 years on area map. Important areas like helipad, hotels, major institutes, Yoga & Naturopathy Block of Deendayal Research Institute etc., which are likely to be eroded in the coming years have been considered while calculating losses/benefits. Anticipated losses/benefits will be higher as erosion line will move closer to populated areas having more valuable properties/assets.

Further, Additional Chief Secretary, Govt of Madhya Pradesh also clarified that design of works have been done by Bureau of Design for Hydel and Irrigation Projects (BODHI) as per standard reference and practices. It was emphasized that construction of ghat will also address the problem of erosion at left bank and facilitate access to ghat areas for the locals.

Advisor, NITI Ayog raised query about design of works especially non-provision of launching apron in ghat construction and provision of reinforced earth wall beyond HFL. Commissioner(FM), DoWR, RD & GR mentioned certain points regarding left bank side of ghat protection as part of this Scheme under flood management aspect.

Additional Chief Secretary, Govt of Madhya Pradesh clarified that on the left bank ghat side, soil erosion protection will be done with toe wall of 2.7m for the entire length of 300m bank.

Officials from Madhya Pradesh assured that suitable measures will be adopted to ensure safety and stability of ghat under submerged condition during construction, considering religious importance of the Chitrakoot dham and erosive nature of river Mandakini.

Member (RM) mentioned the need for reinforced earth wall beyond HFL is due to verticle cliff bank in various reaches. Chairman, CWC clarified that ghat construction is also a type of erosion protection works and although, purpose is erosion protection, however, it is named as ghat protection in this Scheme. Member (RM), CWC also added that ghat construction will serve dual purpose of erosion protection as well as access to water for the pilgrims and locals who will visit the temples at left bank.



JS&FA, DoWR, RD & GR enquired about the status of state finance concurrence of the Scheme. Member (RM) clarified that the same is yet to be obtained and will be obtained from State Govt. before processing the proposal of Investment Clearance .

Chairman of the Committee mentioned that during his visit to the area, he observed damages on banks due to floods and flood protection works are required.

After deliberations, The Advisory Committee accepted the proposal for estimated cost of Rs 30.09 Crore at April 2021 Price level with Benefit cost ratio (BCR) working out to be 1.11 with the following conditions :

- Acceptance of the proposal by the Advisory Committee of DoWR,RD&GR does not guarantee eligibility towards release of fund under any existing scheme of DoWR,RD&GR.
- Design of works has been vetted by Bureau of Design for Hydel and irrigation Projects (BODHI). Therefore, State Govt will ensure safety and durability of the proposed structures.
- While finalizing works, due care will be taken for safe passage of water into the river from drains in the area .
- State finance concurrence shall be obtained by the project authorities.

The meeting ended with vote of thanks to the Chair.



**ANNEXURE**

**Government of India  
ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-  
ECONOMIC VAIBILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD  
CONTROL AND MULTIPURPOSE PROJECT PROPOSALS**

**149<sup>th</sup> MEETING HELD ON, March 07<sup>th</sup>, 2022 THROUGH VIDEO  
CONFERENCING**

**List of Participants**

Shri Pankaj Kumar, Secretary, DoWR, RD & GR

In Chair

**Members of the Advisory Committee or their representative / nominees:  
S/Shri**

- |   |                     |
|---|---------------------|
| 1. Dr. R. K. Gupta, Chairman, Central Water Commission  | Member              |
| 2. Dr. Y.P. Singh, Scientist-E (Representing Secretary MoEF&CC)   | Member              |
| 3. Saidul Haq. Scientist-D (Representing Chairman, CGWB)  | Member              |
| 4. Avinash Mishra (Representing Advisor (WR&LR), NITI Aayog)  | Member              |
| 5. Manoj Sethi, JS&FA, DoWR, RD & GR  | Member              |
| 6. Balwan Kumar, Director, CEA ( Representing Chairman, CEA)  | Member              |
| 7. R. A. S. Patel, Deputy Commissioner (Representing Secretary,<br>Department of Agriculture & Farmers Welfare) | Member              |
| 8. Amardeep Singh Chowdhary, Advisor (Cost), (Representing Department of<br>Expenditure)                        | Member              |
| 9. Manoj Bapna, Director (Representing Secretary, Ministry of Tribal Affairs )                                  | Member              |
| 10. Raghuraj Rajendran, Joint Secretary (Representing Secretary Department<br>of Power )                        | Member              |
| 11. Yogesh Paithankar, Chief Engineer, Project Appraisal Organization, CWC                                      | Member<br>Secretary |

**Special Invitees:**

**Deptt of Water Resources, RD & GR  
S/Shri**

1. A.S. Goel, Commissioner (SPR)
2. Atul Jain, Commissioner (FM)

**Central Water Commission  
S/Shri**



1. K. Vohra, Member (WP&P) & Member, RM (Additional Charge), CWC New Delhi
2. J. Chandrashekhhar Iyer Member (D&R), CWC New Delhi
3. Vijay Saran, Chief Engineer, Design (E&NE) CWC New Delhi
4. Ravindra Singh, Chief Engineer, FMO, CWC New Delhi
5. Aditya Sharma, Chief Engineer, NBO, CWC Bhopal,
6. N Mukherjee, Director, PA(S), Dte., CWC, New Delhi
7. Rajiv Kumar, Director, PA(C) Dte. , CWC, New Delhi
8. S.K Sharma, Director, BCD (NW&S), CWC, New Delhi
9. Piyush Kumar, Director, FMP, Dte. , CWC, New Delhi
10. Anuj Kanwal, Director, (M&A), CWC, Bhopal
11. Dharmendra Singh, Deputy Director, FM-I Dte.,CWC, New Delhi
12. Neelam Narolia, Deputy Director, NBO, Bhopal
13. M K Gupta, Deputy Director PA(N) Dte, CWC, New Delhi
14. Nitish Nitin, Assistant Director PA(N) Dte., CWC, New Delhi
15. Dharmendra Singh, Assistant Director, FMP Dte., CWC, New Delhi
16. Lalit Meena, Assistant Director, FM-I, CWC, New Delhi

**Officers from State Government of Madhya Pradesh  
S/Shri**

1. S. N Mishra, Additional Chief Secretary, WRD
2. M.S. Dawer, Engineer in Chief, WRD
3. Shirish Mishra, Chief Engineer, WRD
4. D K Khare, Executive Engineer, WRD, Satna
5. Pradeep Pandey, SDO,WRD Satna

