

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

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R.K. Puram, New Delhi.  
DATED: 24/11/2023

**Minutes of Meeting**

A copy of the Summary Record of discussions of the 153<sup>rd</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 14.11.2023 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, 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&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.

**Invitees from State Government concerned:**

1. Principal Secretary, Irrigation & Water Resources Department, Government of Uttar Pradesh, Lucknow
2. Principal Secretary, Water Resources Department, Govt. of Punjab, Chandigarh
3. Secretary, Department of Water Resources, Govt. of Arunachal Pradesh, Itanagar
4. Additional Chief Secretary, Water Resource Department, Government of Assam, Chandmari, Guwahati
5. Additional Chief Secretary, Water Resources Department, Government of Bihar, Patna
6. Additional Chief Secretary, Department of Water Resources, Government of Odisha, Bhubaneswar
7. Additional Chief Secretary, Irrigation & Waterways Department, Govt. of West Bengal, Jalsampad Bhavan, Salt Lake City, Kolkata
8. Engineer in Chief, Irrigation Department, Govt of U.P, Lucknow

**Special Invitees:**

1. Member (WP&P), CWC, New Delhi.
2. Member (D&R), CWC, New Delhi.
3. Member (RM), CWC, New Delhi.
4. Chairman, GFCC, Patna, Bihar
5. Joint Secretary (RD&PP), DoWR, RD&GR, New Delhi.
6. Chief Advisor (Cost), Department of Expenditure, Lok Nayak Bhawan, New Delhi.
7. Commissioner (SPR), DoWR, RD & GR, New Delhi.
8. Commissioner (FM), DoWR, RD & GR, New Delhi.
9. Commissioner (Indus), DoWR, RD & GR, New Delhi.
10. Chief Engineer (IMO), CWC, New Delhi.
11. Chief Engineer (PMO), CWC, New Delhi.
12. Chief Engineer (FMO), CWC, New Delhi..
13. Chief Engineer, IBO, CWC, Chandigarh.
14. Chief Engineer, M&ERO, CWC, Bhubaneswar
15. Chief Engineer, UGBO, CWC, Lucknow

**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  
Department 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**

**153<sup>rd</sup> MEETING HELD ON 14<sup>th</sup> November 2023**

**SUMMARY RECORD OF DISCUSSIONS**

The 153<sup>rd</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 **Ms. Debashree Mukherjee**, Secretary to the Government of India, DoWR, RD & GR, MoJS on Tuesday, 14<sup>th</sup> November, 2023. The list of participants is **Annexed**.

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

Brief records of the discussion & decisions taken in the meeting are given below:

**I. Confirmation of the Minutes of the 152<sup>nd</sup> Meeting of the Advisory Committee :**

The 152<sup>nd</sup> meeting of the Advisory Committee was held on 14.07.2023. Member Secretary informed that the Summary Record of Discussions of 152<sup>nd</sup> Meeting was circulated vide CWC Letter dated 27.07.2023 and no comments have been received so far. The committee confirmed the Minutes of 152<sup>nd</sup> meeting of the Advisory Committee.

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

Member Secretary informed that there are 4 Major/Medium irrigation projects (2 Revised Cost Estimate Proposal from Govt. of Punjab, 1 Revised Cost Estimate Proposal from Govt. of Uttar Pradesh and 1 Medium Irrigation Project from Odisha) and 9 flood control projects (4 from Govt. of Assam, 2 from Govt. of Arumachal Pradesh, 2 from Govt. of Bihar and 1 from Govt. of West Bengal) to be discussed as per the Agenda.



## **Irrigation Schemes**

### **1. 2<sup>nd</sup> RCE of Kanhar Irrigation Project (MAJOR PROJECT), Govt. of Uttar Pradesh (Estimated Cost Rs 3459.80 Cr ( at 2022 PL), BC Ratio. 1.32)**

Member Secretary informed the Committee that the said Scheme was considered in the 152<sup>nd</sup> meeting of Advisory Committee of DoWR, RD & GR held on 14.07.2023. However, in view of the design concerns and safety aspects, approval of the proposal was deferred with the observation that “CWC and Project Authority may ensure settlement of the design issues with the approval of concerned agencies, i.e., CSMRS/NDSA/SDSA within 4 to 6 weeks and the proposal may be placed before the Advisory Committee in its next meeting ensuring all relevant technical measures”.

A brief presentation was made by the Chief Engineer, Kanhar Irrigation Project regarding different components of the project. It was further informed that major portion of dam is completed and remaining main work left is of canal network. The project is being constructed by taking loan from NABARD which has now ended.

Chairman, CWC emphasized that Kanhar Project having an Earthen dam, design and safety issues are of utmost important and these issues were raised in the last meeting of Advisory Committee. He added that design issues/safety aspects have now been thoroughly examined by D&R Wing of CWC and it has been proposed that the project authorities shall undertake the following actions during construction phase of the project:

1. The existing dam's & foundation's imperviousness and stability (under various conditions) shall be checked and meet the limits prescribed in relevant BIS code. The material properties of the dam & foundation in-situ material (core, filter, foundation, embankment material etc.) shall be determined through laboratory tests and used for such an exercise.
2. The dam crack treatment may be carried out as per the expert's suggestions based on the CSMRS Report on Geophysical Investigation. CSMRS may be consulted while carrying out treatment.
3. The adequacy of the freeboard for the entire Kanhar Dam may be ascertained as suggested in the July 2023 tour report of CWC. For raising the dam from present level of EL 268.55 m to EL 270.25 M to meet the requirement of freeboard, a parapet wall of approximate 2.5-3.0 m may be taken.
4. The following activities shall be undertaken before the reservoir's initial filling:
  - a. Clearance of SDSO
  - b. Preparation of an Emergency Action Plan (EAP)
  - c. Installation of all the instruments for monitoring the dam's behavior.
5. The above mentioned measures/rectifications may be taken up on priority to ensure the safety of the dam. During the rectification activity, strict monitoring is required in respect of quality control. For supervision of the work, SDSO and any other expert agencies may be involved to avoid any slippage in the execution of the work, which may affect the safety of the dam.

Secretary (WR), DoWR, RD & GR stressed upon the safety aspects of the dam





structure and reiterated that project authorities need to strictly comply with the suggestions of CWC/CSMRS within specific time frame. She also emphasized that an Independent expert may be appointed to ensure the safety of the dam who will inspect at different stages. CWC, D&R Wing will finalize the stages of inspection. Advisor (WR&LR), NITI Aayog emphasized that timeline for completion needs to be finalized and strictly adhered to.

The State Govt of Uttar Pradesh agreed with all the suggestions given in respect of safety aspects.

**The 2<sup>nd</sup> RCE of Kanhar Irrigation Project was accepted by the Advisory Committee of DoWR, RD & GR subject to conditions that**

- i) Project authorities shall ensure that all the five suggestions given by CWC as mentioned above are implemented in true spirit during the construction process to ensure safety of dam ;
- ii) Project authorities will keep SDSO informed about action being taken by them and seek their advice wherever necessary ;
- iii) Independent expert will be immediately appointed to ensure the safety of the dam and to carry out regular checks/inspections as per the stages fixed by CWC.
- iv) Acceptance of project proposal by Advisory committee of DoWR, RD & GR does not guarantee any eligibility towards release of funds under any existing Scheme of DoWR, RD & GR such as AIBP, PMKSY, RRR and FMP etc or funding from any external multilateral agency.

**2. 2<sup>nd</sup> Revised Cost Estimate of Project of Relining of Sirhind Feeder RD 1,19,700 To 4,47,927 (MAJOR - ERM), Govt of Punjab (Estimated Cost Rs. Rs 774.80 Cr (at 2022 PL), BC Ratio. 1.99)**

A detailed presentation was made by the Chief Engineer, Govt. of Punjab. Chief Engineer, Govt. of Punjab explained that almost 70% physical progress has been achieved. Lining in the initial reach of 16 km could not be taken up due to farmer's agitation in the nearby vicinity of the canal including those of Faridkot Town. There is an apprehension that once complete lining is done, the ground water recharge will reduce drastically and farmers/locals will not be able to get drinking and irrigation water from tube well.

Chairman, CWC stated that lining issue was examined in Design Directorate of CWC and it was suggested that lining of bed and side slope has to be carried out simultaneously. He further added that proposal of partial lining to meet the dual objective of ground water recharge from seepage and safe/reliable side lining for effective conveyance in canals is not acceptable to CWC and the same has been informed to project authorities.

JS & FA, DoWR, RD & GR pointed out that certain terms like "inadequate provisions", "change in scope" need to be explained in the TAC Note in greater details in terms of financial parameters as these will decide as to whether the project is to be examined by Revised Cost Committee (RCC). She also reiterated that as the Cabinet has approved RF & SF as combined project, the price variation aspect needs to be seen as combined unit in order to ascertain whether it is required to be seen by Revised Cost Committee (RCC).

Secretary, DoWR, RD & GR raised serious concern over the delay in completion of





the project. It was noticed that during last year, expenditure on the project is nil, even though sufficient funds are available with the project authorities as confirmed by State Govt. during presentation.

Secretary, DoWR, RD & GR pointed out that Rs 506.15 crore expenditure (75% of 671.48 crore) has already been incurred till August 2023. She asked about the benefits achieved so far – in terms of improvement in seepage conditions as well as lands reclamation and area getting benefitted (irrigation potential created) in the command area.

In reply, Chief Engineer, Govt of Punjab explained that so far 57,879 ha of irrigation potential has already been achieved till March 2023. He also added that to reduce seepage losses to bare minimum, HDPE sheets with 0.75 mm thick geomembrane are being used after consulting CWC, CMRS & IIT Chennai/Roorkee.

Chairperson of the Committee directed the Govt of Punjab to bring out a clear strategy for effective tackling of problem created by farmers before the project can be considered by Advisory Committee. In view of this, **the project was deferred by the Advisory Committee of DoWR, RD & GR.**

The State Govt was also asked to measure the discharge in the canal and assess the reduction in water loss by way of seepage as well as how much extra area is getting benefitted and report the same in the next meeting.

**3. 2<sup>nd</sup> Revised Cost Estimate Of Project of Relining of Rajasthan Feeder RD 1,79,000 To 4,96,000 (MAJOR - ERM), Govt. of Punjab (Estimated Cost: Rs 1687.36 Cr. (at 2022 PL), BC Ratio: 1.58)**

As the issue was similar as that in Sirhind Feeder, **it was decided by Advisory Committee to defer the Scheme.**

**4. Khairibandhan Barrage Project, (MEDIUM PROJECT), Govt. of Odisha (Estimated Cost: Rs 314.55 Cr (at 2023 PL), BC Ratio: 1.61)**

A detailed presentation was made by the E-in-C, Govt. of Odisha explaining that the project envisages construction of a Barrage across Khairibandhan River, right side tributary of Baitarani river. Khairibandhan river originates from the hill ranges of Similipal Reserve Forest in Jashipur Block of Mayurbhanj District. After a distance of 22.5 km towards west direction, Khairibandhan meets Baitarani near village Adipur of Keonjhar District which then drains into Bay of Bengal after flowing 360 kms. Catchment area of the proposed project site is 609.00 Sq.Km and entire catchment area lies within Odisha.

He also explained that main scope of the project is:

- i) Construction of a Barrage at Analabeni with the pond level of barrage is kept at RL 394.00m with a MWL of 395.00m. The crest level of the barrage is kept at RL 391.00m. The barrage is designed for the maximum flood discharge of 2586 cumecs.
- ii) Barrage having 122.95 m length has been divided into 8 bays and fitted with 10.00m by 3.00m size vertical gates and 2 no. of sluice gates of size 10.00m by 4.00m.





- iii) Construction of Right Main Canal of Length 19.10 Km to provide flow irrigation of 2950 Ha. CCA. Construction of Left Main Canal of Length 22.50 Km to provide flow irrigation of 4000 Ha. CCA. Total irrigation potential is 6950 ha (Kharif only)
- iv) To supply 0.00265 TMC of drinking water to 47 tribal villages of Mayurbhanj district.

Advisor (WR & LR), NITI Aayog, pointed out that crop like millet needs to be promoted instead of paddy. In reply, ACS, Govt of Odisha clarified that at present paddy is the only crop grown in the locality and consent of local farmers has been taken by State Agricultural Department while adopting cropping pattern.

Chairman, CWC asked the project authorities whether the completion time of 2025-26 is achievable as no physical progress has been made so far. In reply, ACS, Govt of Odisha clarified that tendering process for works is already under preparation and project will be completed as per the work plan.

In a reply to a point raised by Member Secretary, Representative from MoTA clarified that although certificate from District Collector, Mayurbhanj with respect to "no effect on Tribal population" has been submitted by the project authorities, it will be advisable that a separate Certificate shall be obtained from the MoTA official. She further added that as there is an issue of forest diversion and the livelihood of tribals being dependent on forest products, as per the norms of Forest Rights Act, 2006, it will be prudent to get NoC from MoTA official.

Representative from MoEF & CC pointed out that although Environmental Clearance has been granted as per the minutes of 4<sup>th</sup> meeting of EAC held on 02.12.2020, formal letter from the MoEF & CC needs to be obtained by the project authorities. Also, Project Authorities need to obtain Stage-II Forest Clearance, as Stage I has been granted on 22.03.2021.

**After detailed deliberations, Khairi Bandhan Project, Odisha was accepted by the Advisory Committee of DoWR, RD & GR subject to conditions that**

- i. Project Authority shall obtain all the statutory clearances (Environment, Forest, Wildlife, Tribal Affairs and R&R etc.) from the competent authority, wherever required as mentioned above.
- ii. State Finance concurrence for estimated Cost of Rs. 314.55 Crore at 2023 price level needs to be obtained by the Project Authority
- iii. Acceptance of project proposal by Advisory committee of DoWR, RD & GR does not guarantee any eligibility towards release of funds under any existing Scheme of DoWR, RD & GR such as AIBP, PMKSY, RRR and FMP etc or funding from any external multilateral agency.



## **Flood Protection Schemes**

### **5. Reconstruction and improvement of the existing flood management infrastructures in the district of Uttar Dinajpur, Dakshin Dinajpur & Malda (Estimated Cost: Rs. 496.70 Crores at Price level of 2023, BC Ratio-2.63:1)**

A detailed presentation was made by the Joint Secretary (Works), I&WD, Govt of West Bengal. In his presentation, he mentioned that present scheme comprises of following works :

(i) Raising/Strengthening of existing embankment by earthwork in a length of 100.485 km out of which, river side slope armoring is 8.37 km,

(ii) Improvement of embankments by construction of PCC/RCC dwarf wall in a length of 36.373 km,

(iii) Resuscitation of existing minor rivers/ drainage channels for a total length of 153.499 km,

(iv) Renovation/ re-construction of 08 nos. sluices/ inlets and

(v) River bank protection works in the form of single boulder pitching with apron for a length of 23.250 km and a length of 10.805 km is to be protected by providing bed bars.

During his presentation, Joint Secretary (Works), I&WD, emphasised that project is planned to benefit area of about 5,86,146 Ha and 49,08,664 population of 21 Blocks in the three districts of Uttar Dinajpur, Dakshin Dinajpur and Malda.

In a query raised by Commissioner (FM), DoWR, RD & GR, Joint Secretary (Works), I&WD, clarified that after the devastating flood of 2017, detailed project report was prepared for reconstruction and assessment of the existing flood management infrastructure. It was also informed that mathematical modeling has not been carried out due to International issues.

Advisor, Cost, Department of Expenditure, MoF asked why the SOR taken in the DPR was of 2018, to which, Joint Secretary (Works), I&WD explained that the SOR was last prepared in 2018 and there was no difference between the prices of items in the year 2023 as compared to 2018. Most of items are locally procured from the States of Bihar and Bengal. As such, the SOR of 2018 was adopted in the DPR.

Member (RM) raised the issue of dumping of silt material. In reply, Project Authorities clarified that 50% of the silt will be reused in the embankment works and rest will be dumped 3 kms away from the site, for which, location has already been identified.

Secretary (WR), DoWR, RD & GR emphasized that mapping of embankments has to be carried out by every State and asked GFCC to take necessary action in this regards in consultation with NRSC and Commissioner (FM) within the Ganga basin.

In reply, JS (Works), Govt of West Bengal clarified that West Bengal has already completed the mapping of embankments. Secretary, DoWR, RD&GR directed GFCC to look into this for all the States of Ganga basin as it will help in preparing a comprehensive plan for Ganga basin.

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



**6. Anti- erosion work on left edge of Ganga river ner Gandhitola in Manihari Block Katihar District to protect Katihar Manihari Railway line and Karikoshi Embankment.**

**(Estimated Cost: Rs. 45.1930 Crore @ 2022 PL, B.C. Ratio: 2.39.1)**

A detailed presentation was made by the E-in-C, Govt of Bihar explaining that the scheme envisages provision of anti-erosion work on left edge of Ganga river near Gandhitola in Manihari Block Katihar District to protect the Katihar Manihari Railway line and Karikoshi Embankment.

He explained that during highest flood period, river Ganga along with Kari Koshi flows along the railway line creating alarming situation for the village located next to the railway line and Kari Koshi embankment. Keeping in view of the high erosion, river morphology and vulnerable situation of railway track, it is felt that strong protection is needed to ensure safety of the reach on the left river edge of Ganga.

Secretary (WR), DoWR, RD&GR directed the State Government officials to look into non-structural measures of flood management and strongly suggest that State Govt must adopt flood plain zoning. She further stated that in the next meeting of the Advisory Committee, State Government officials should come prepared with information on action taken by the State Govt on mapping of all embankments on GIS.

The Representatives of the Government of Bihar informed that they have already done for their state and are ready to share with GFCC.

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

**7. Construction of Sikrahana Right Embankment (From km 00 to km 56.22) (Estimated Cost: Rs. 239.6268 Crore @ 2022 PL, B.C. Ratio: 2:25:1)**

A detailed presentation was made by the E-in-C, Govt. of Bihar explaining that the scheme envisages construction of Sikrahana Right Embankment (From km 00 to km 56.22) along with the provision of construction of 13 Nos. Anti-Flood Sluice Gate at different locations.

He explained that Sikrahna/Burhi Gandak river originates from Chautarawa Chours in West Champaran District of Bihar and it is an important tributary of river Ganga. The Masan river joins Sikrahna river near Basantpur Panchayat and flows by the name of Sikarhana River after that. After the confluence of Suzua river in left bank and Dhnauli river in right bank of Sikarhna. This river is known as Burhi Gandak river. The Sikarhna right embankment passes through Chanpatia, Sikta and Majhuliya block of West Champaran and Sagauli, Ramgarhwa, Banjaria and Motihari blocks of East Champaran. After construction of this embankment, a



large population of the above mentioned blocks of West and East Champaran will be benefitted. Most of the important public structures like School, Hospitals, Roads, Rural Bridges and Railway Line etc. will be protected on the country side of embankment.

On a query from Commissioner (FM), DoWR, RD&GR, E-IN-C clarified that the project was started in 1990 and 22 km stretch was completed and now present scheme is for balance 56.2 km for which land was acquired in 1990 itself. Design parameters adopted are same what was adopted for 22km as there is not much change in hydrology. Currently acquired land is being used by farmers, but the local population is ready to vacate as every year they facing flood situation.

Secretary (WR), DoWR, RD & GR directed the State Government officials to look into the issues of non-structural measures of flood management and adopt flood plain zoning in the State.

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

## **8 Construction of anti-erosion and flood management work over Pappu River at Pappu Valley, East Kameng District, Govt. of Arunachal Pradesh**

***(Estimated Cost: Rs 118.06 Cr at January 2023 PL, BC ratio-1.18)***

A detailed presentation on the scheme was made by the project authority informing that the proposed scheme envisages the construction of earthen embankment with slope protection work on the both banks of the river and RCC Culverts as per relevant code provisions. The scheme envisages benefiting 13,000 populations and protecting 1,607 Ha area.

Commissioner (FM), DoWR, RD & GR pointed out that there is a reduced 25 year return period design flood from 2666 cumec to 1446 cumec as finalized by Hydrology (NE) Directorate of CWC.

Secretary (WR), DoWR, RD & GR directed project authorities to recheck the cost estimate in light of the reduced design flood and its effect on crest level of embankments in the Project.

Secretary (WR), DoWR, RD&GR directed the State Government officials to look into the issues of non-structural measures of flood management and adopt flood plain zoning in the State.

**After detailed deliberations, project was deferred by the Advisory**



**Committee.**

- 9 Anti Erosion Work at Dibang River Basin under Dambuk Sub Division, Lower Dibang Valley District, Govt. of Arunachal Pradesh**  
***(Estimated Cost Rs. 144.64 Cr at 2023 PL, BC Ratio. 1.16)***

A detailed presentation was made by the project authority informing that the proposed scheme envisages the construction of bank revetment with launching apron as well as gabion submerged bed bars on the right bank of the river as per relevant code provisions. The scheme envisages benefiting 4025 population and protecting 2,645 Ha area.

Commissioner (FM), DoWR, RD & GR asked about the need of the project when there is a proposed Dibang Multipurpose project funded by the Ministry of Power, upstream of this Scheme. In reply, Director (FMP), CWC explained that the execution of Dibang Multipurpose project may take 10 years to complete and one of its objective is moderation of flood whereas instant proposal is for bank protection.

JS & FA, DoWR, RD & GR raised an issue about the higher unit cost of bank revetment. In response, Project Authorities explained that unit cost of the project is on the higher side because of provision of bed bars along with revetment.

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

- 10 Climate Resilient Brahmaputra Integrated Flood and Riverbank Erosion Risk Management Project- Dibrugarh and Tinsukia Sub Project (Zone-A), Govt. of Assam**  
***(Estimated Cost Rs. 776.5016 Cr at march 2023 PL, BC Ratio. 1.32)***

**&**

- 11 Climate Resilient Brahmaputra Integrated Flood and Riverbank Erosion Risk Management Project- Morigaon, Nagaon, Tezpur Sub Project (Zone-B), Govt. of Assam**  
***(Estimated Cost Rs. 676.5080 Cr at March 2023 PL, BC Ratio. 1.86)***

**&**

- 12 Climate Resilient Brahmaputra Integrated Flood and Riverbank Erosion Risk Management Project- Guwahati West, P.G.P sub project (Zone-C), Govt. of Assam**  
***(Estimated Cost Rs. 269.5371 Cr at March 2023 PL, BC Ratio. 1.32)***



**13 Climate Resilient Brahmaputra Integrated Flood and Riverbank Erosion Risk Management Project- Goalpara and Dhubri sub project (Zone-D), Govt. of Assam**

***(Estimated Cost Rs. 530.27 Cr at March 2023 PL, BC Ratio. 1.20)***

A detailed presentation on the above 4 Schemes was made by the project authority informing that these Schemes of Assam are proposed to be funded by ADB and envisages the following, zone wise :

**Zone-A :** construction of earthen embankment on left bank of the river and bank revetment with launching apron on left bank as per relevant code provisions along with pro-siltation measures in the form of PSC Porcupines and adaptive/recoupment works. The scheme envisages benefitting 3, 00,000 population and protecting 6,35,00 Ha area.

**Zone-B :** construction of earthen embankment along with construction of sluice gate on the right bank (north bank) of the river and bank revetment with launching apron on both banks as per relevant code provisions along with pro-siltation measures in the form of PSC Porcupines and raising & strengthening works. The scheme envisages benefitting 2,60,000 population and protecting 46,876.25 Ha area.

**Zone-C :** bank revetment with launching apron as per relevant code provisions along with pro-siltation measures in the form of PSC Porcupines and adaptive/recoupment works. The scheme envisages benefitting 5, 00,000 population and protecting 75558.4 Ha area.

**Zone-D :** construction of earthen embankment along with construction of sluice gate on left bank (south bank) of the river and bank revetment with launching apron on south bank as per relevant code provisions along with pro-siltation measures in the form of PSC Porcupines. The scheme envisages benefitting 4, 50,000 population and protecting 24920 Ha area.

Secretary (DoWR, RD & GR) pointed out that there is no cost provision for land acquisition in the cost estimate in any of these Schemes in Zone-A, Zone-B, Zone -C & Zone-D.

ACS, Govt of Assam elaborated that these are anti-erosion schemes and land acquisition cost is negligible. He also added that the most of land next to banks belongs to the State Govt except the Scheme of Zone B (Morigaon).

The committee asked the project authorities to revise all the 4 DPRs incorporating provision for land acquisition and be resubmitted which may be taken up in the next meeting to be held shortly and exclusively for these 4 schemes.

**After detailed deliberations, project was deferred by the Advisory Committee.**



## **Other Issues:**

In the meeting, Secretary (WR), DoWR, RD & GR directed the State Government Officials & GFCC dealing with Flood Control Schemes to seriously look into the issues of non-structural measures of flood management and to adopt flood plain zoning in the individual State. Further following actions were suggested for GFCC & Brahmaputra Board.

1. Secretary, DoWR, RD & GR emphasized that mapping of embankments on GIS is of utmost necessity and has to be completed by each State. She directed GFCC to take lead within the Ganga basin after consulting State Govt, NRSC and Commissioner (FM). GFCC must obtain all the information/data and initiatives taken by State Govt and incorporate those for a comprehensive plan for digitization of flood embankments.
2. Secretary, DoWR, RD & GR also directed that digital mapping of embankments has to be carried out by Brahmaputra Board in consultation with Commissioner (FM), NRSC, State Govt. concerned within the Brahmaputra basin.

The meeting ended with vote of thanks to the Chair.

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## ANNEXURE

**Government of India**  
**ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-  
ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION,  
FLOOD CONTROL AND MULTIPURPOSE PROJECT PROPOSALS**  
**153<sup>rd</sup> MEETING HELD ON November 14<sup>th</sup>, 2023**

### List of Participants

**Ms. Debashree Mukherjee, Secretary, DoWR, RD & GR**

**In Chair**

**Members of the Advisory Committee or their representative / Nominees:  
Smt./Shri**

1	Kushvinder Vohra, Chairman, Central Water Commission	Member
2	Yugal Joshi, Advisor (WR&LR), NITI Aayog	Member
3	Dr. Sunil Kumar Ambast, Chairman, CGWB	Member
4	Richa Mishra , Joint Secretary, & Financial Advisor , DoWR, RD & GR )	Member
5	Pawan Kumar, Additional Chief Advisor (Cost) (Representing Deptt. of Expenditure)	Member
6	Samidha Singh, Director, MoTA ( Representing Secretary, Ministry of Tribal Affairs )	Member
7	Abdul Islam, Pr. Scientist , ICAR ( Representing DG, ICAR)	Member
8	Balwan Kumar , Director ( Representing Chairman , CEA)	Member
9	Vijay Kumar Pawar, ASCO (RFS) (Representing Secretary, Department of Agriculture & Farmers Welfare)	Member
10	Dr. Saurabh Upadhyay, Scientist-C (Representing Secretary MoEF & CC)	Member
11	Yogesh Paithankar, Chief Engineer, Project Appraisal Organization, CWC	Member Secretary

### Special Invitees:

**O/o Chief Advisor (Cost), Ministry of Finance**

1. Amit Kumar, Joint Director (Cost)

**Deptt of Water Resources, RD & GR  
Smt./Shri**

1. A.S. Goel, Commissioner (SPR)
2. Atul Jain, Commissioner (FM)
3. Rajesh Kumar , Senior Joint Commissioner (FM)
4. Amit Kumar Jha, Senior Joint Commissioner (SPR)- (Joined online)

**Central Water Commission  
Smt./Shri**

1. P.M Scott, Member (RM), New Delhi
2. Navin Kumar, Member (WP&P), New Delhi
3. B.K. Karjee, Chief Engineer, FMO, New Delhi



4. Rakesh Kashyap, Chief Engineer, IBO, Chandigarh
5. B.P Pandey, Chief Engineer, IMO, New Delhi
6. Anupam Prasad, Chief Engineer, UGBO, Lucknow
7. Nityananda Mukherjee, Director, PA(N) , New Delhi
8. Kiran Pramanik, Director, CA(HWF) Dte , New Delhi
9. S.K. Samal, Director, Director, M & A, Bhubaneswar
10. Piyush Kumar, Director, FMP Dte., New Delhi
11. A.S Banode, Director, CA (Irr.)-I Dte., New Delhi
12. Mohd. Amanullah, Deputy Director CA (Irr.)-2 Dte., New Delhi
13. R. Rama Prasad, Deputy Director, M & A, Bhubaneswar
14. Indrajeet Kumar, Deputy Director PA(N) Dte, New Delhi
15. Nitish Nitin, Assistant Director PA(N) Dte, New Delhi
16. Satyajit Burman, Assistant Director, PA(S) Dte.

**Ganga Flood Control Commission (GFCC), Patna  
Smt./Shri**

1. Gulshan Raj , Chairman
2. S K Rajan, Member

**Officers from State Government of Uttar Pradesh  
Smt./Shri**

1. Arvind Kumar Chaurasia, Special Secretary, Irrigation & water resources
2. Akhilesh Kumar, Engineer in Chief & HOD, Irrigation & Water Resources
3. Amit Pranav, Joint Secretary, Irrigation & Water Resources
4. Har Prasad, Chief Engineer, Kanhar Irrigation Project
5. Deepak Kumar , Superintending Engineer, Kanhar Irrigation Project
6. Vinod Kumar, Executive Engineer, Kanhar Irrigation Project
7. TN Jha , Assistant Engineer, Kanhar Irrigation Project

**Officers from State Government of Punjab  
Smt./Shri**

1. Jitender Pal Singh, Chief Engineer
2. Upkaran Pal Singh Sra, Superintending Engineer
3. Ramanpreet Singh Maan, Executive Engineer

**Officers from State Government of Odisha  
Smt./Shri**

1. Anu Garg , DC cum Addl. Chief Secretary to Govt., DoWR
2. Bhakta Mohanty, Engineer-in-Chief, DoWR
3. Sagar Mohanty, Chief Engineer, DoWR – ( Joined online )
4. Narayan Patra, Director, North & Central, O/o CE, Planning
5. Golak Bihari Pattanaik, Addl. Dir., Subarnarekha & Budhabalanga, O/o CE, Planning
6. Priyaranjan Sahoo, Dy Dir., Co-ordination, O/o CE, Planning
7. Narmada Parhi, Asst. Engineer, O/o Interstate Water Dispute Cell New Delhi

**Officers from State Government of West Bengal  
Smt./Shri**



1. Biplob Mukherjee, Joint Secretary, Irrigation & Waterways Department
2. Uttam Kumar Pal, SE ( North ) , Irrigation & Waterways Department

**Officers from State Government of Bihar**  
**Smt./Shri**

1. Nand Kumar Jha, Engineer in Chief , Flood, WRD
2. Dilip Kumar, Superintending Engineer, WRD
3. Suman Saurabh, Executive Engineer, WRD
4. Charu Chandra Mishra, Resident Engineer ( Superintending Engineer), WRD
5. Vivek Kumar , Assistant Engineer, WRD
6. C.S. Kumar, Executive Engineer, WRD

**Officers from State Government of Arunachal Pradesh**  
**Smt./Shri**

1. LikarAngu, Chief Engineer , (P&D), WRD
2. Tech Hanu, Executive Engineer, WRD
3. Bengia Pada, Executive Engineer, WRD
4. Harish Kumar Chauhan, Liaison Officer, WRD
5. Vishal Singh, Consultant, WRD

**Officers from State Government of Assam**  
**Smt./Shri**

1. S Abbasi, ACS , Govt of Assam - ( Joined online )
2. Dr Rajib Kr Goswami, Addl. Chief Engineer, EAP, WRD
3. Pranab Kr. Turning, Chief Engineer, WRD
4. Suleman Ali Ahmed, Executive Engineer, Goalpara W.R Division (Zone-D)
5. Anurag Thakuria, Assistant Engineer, Kamrup Rural W.R Division (Zone-C)
6. Dipankar Roy, Assistant Executive Engineer, Morigaon W.R Division (Zone-B)
7. Deep Pegu, Dy-CEO, FREMAA



