

Government of India  
Central Water Commission  
Project Appraisal Organization

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R.K. Puram, New Delhi.  
Dated : 27.07.2023

**Minutes of Meeting**

A copy of the Summary Record of discussions of the 152<sup>nd</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 14.07.2023 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. Secretary, Irrigation Department, Government of Uttarakhand, Dehradun
2. Spl. Chief Secretary, I & CAD Department, Govt. of Telangana, Hyderabad.
3. Additional Chief Secretary, Water Resources Department, Government of Bihar, Patna
4. Principal Secretary, Irrigation & Water Resources Department, Government of Uttar Pradesh, Lucknow
5. Principal Secretary, Water Resources Department, Govt. of Punjab, Chandigarh
6. Secretary, Dept. of PHE, Irrigation and Flood Control, Civil Secretariat, Srinagar
7. Secretary, Department of Water Resources, Govt. of Arunachal Pradesh, Itanagar
8. Addl. Chief Secretary, Water Resources Department, Government of Madhya Pradesh
9. Principal Secretary, Water Resources Department, Government of Maharashtra, Mumbai
10. Executive Director, MKVDC, Sinchan Bhavan, Pune
11. Chief Engineer, WRD, Govt. of Maharashtra

**Special Invitees:**

1. Special Secretary, DoWR, RD & GR, New Delhi
2. Member (WP&P), CWC, New Delhi.
3. Member (D&R), CWC, New Delhi.
4. Member (RM), CWC, New Delhi.
5. Chairman, GFCC, Patna, Bihar
6. Chairman, GRMB, Hyderabad
7. Joint Secretary (RD&PP), 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. Commissioner (Indus), DoWR, RD & GR, New Delhi.
12. Chief Engineer (IMO), CWC, New Delhi.
13. Chief Engineer (FMO), CWC, New Delhi.
14. Chief Engineer (PPO), CWC, New Delhi.
15. Chief Engineer, IBO, CWC, Chandigarh.
16. Chief Engineer, UGBO, CWC, Lucknow
17. Chief Engineer (KGB), CWC, Hyderabad
18. Chief Engineer (MCO), CWC, Nagpur

**Copy for kind information to:**

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

**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**

**152<sup>ND</sup> MEETING HELD ON 14<sup>TH</sup> JULY, 2023**

**SUMMARY RECORD OF DISCUSSIONS**

The 152<sup>nd</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 Friday, 14<sup>th</sup> July, 2023. The list of participants is **annexed**.

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

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

**I. Confirmation of the Minutes of the 151<sup>st</sup> Meeting of the Advisory Committee:**

The 151<sup>st</sup> meeting of the Advisory Committee was held on 29.11.2022. Member Secretary informed that the Summary Record of Discussions of 151<sup>st</sup> Meeting was circulated vide letter no File No.N-74074/441/2022-PA (N) DTE dated 13.12.2022 and no comments have been received so far. The committee confirmed the minutes of 151<sup>st</sup> meeting of the Advisory Committee.

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

Member Secretary appraised the committee members that as per agenda there are total 13 projects - 6 irrigation & multipurpose projects and 6 flood control projects whose TAC notes have already been circulated & 1 ERM project whose TAC note has been finalized will be placed with the consideration of Chairman for consideration in this meeting. Out of the 6 irrigation & multipurpose projects, 2 projects from Telangana are mentioned as unapproved projects in the Govt of India Gazette Notification dated 15.07.2021. As per the notification and flow chart approved by DoWR, RD & GR vide letter dated 16.11.2021, the projects have been appraised by



CWC & GRMB and are being placed in this meeting for its consideration. Subsequently, individual projects were considered as per the details below:

### Irrigation Schemes

**1. Kaddem-Gudem Lift Irrigation Scheme (MAJOR PROJECT), Govt of Telangana**  
(Annual irrigation – 12,141 ha., Estimated Cost Rs. 138.45 crore at March 2015 PL, BC Ratio. 1.74)

The Kaddem-Gudem Lift Irrigation Scheme is supplementation to the command area of Kaddem Project (now known as Kaddem Narayan Reddy Project, KNRP) completed in 1958. KNRP was originally planned for utilization of 11.75 TMC of water to cater to CCA of 68,150 acres (27,580 ha). However, due to siltation, capacity of KNRP has been reduced from 7.603 TMC to 4.699 TMC, resulting in spill from KNRP that gets stored in Sripada Yellampally Project located downstream of KNRP. Thus, tail end of the command is not getting water as planned originally. This project has been envisaged by lifting water from left flank of river Godavari near Gudem village of Dandepally Mandal in Mancherial district of Telangana to utilize 3.0 TMC of water from foreshore of Sripada Yellampally Project to supplement tail end ayacut (annual irrigation 12,141 ha) of KNRP left main canal.

Special Chief Secretary, GoTS gave a brief introduction to this project highlighting that the project has been completed and operationalized in 2015; however, the project has been placed for consideration as per the Govt of India Gazette Notification dated 15.07.2021. Thereafter, a detailed presentation was made by the concerned Chief Engineer of the project.

Additional Chief Advisor (Cost), Department of Expenditure mentioned that the estimated cost of the project has been worked out at March 2015 PL. Further, he stated that in post project scenario, the increase in gross produce value considered is about 10 times. Additional Chief Secretary, GoTS clarified that price level has been considered as per completion & operationalization of the project in 2015. He further clarified that substantial increase in the yield and rate of the produced has been noticed in this project. Net value of produce due to project is Rs 107 crore and without project it is Rs 11 crore and therefore gross increase is (107/11) is almost 10 times. Member Secretary highlighted that the rates and yield of the crops have been considered as certified by State Agricultural Department. Chairman, CWC mentioned that there is always increase in income in post project scenario.

Special Secretary (WR) suggested that State Government should look into the aspect of excess siltation in the project. Additional Chief Secretary, GoTS informed that this aspect is being taken care of for enhancing the life of the project.

After detailed deliberations, the project was accepted by the Advisory Committee.



2. **Modikuntavagu Irrigation Project (MEDIUM PROJECT), Govt of Telangana**  
(Annual irrigation –8,640 ha., Estimated Cost Rs. 500.25 crore (at 2021-22 PL)), BC Ratio. 1.50)

Modikuntavagu Irrigation Project, on Modukuntavagu a tributary of Godavari, has been envisaged to store 2.047 TMC of water by constructing an earthen dam with concrete spillway for catering to CCA of 5,500 ha in backward tribal areas of Mulugu district of Telangana and supplying drinking water (0.12 TMC) to 35 tribal villages of Wazeedu Mandal. The project components include construction of 21.85 km main canal and 10 distributaries adding to 28.95 km length.

Special Chief Secretary, GoTS gave a brief introduction to this project highlighting that the project has been placed for consideration as per the Govt of India Gazette Notification dated 15.07.2021. Thereafter, a detailed presentation was made by the concerned Chief Engineer of the project.

Additional Chief Advisor (Cost), Ministry of Finance mentioned that the project needs to be vetted by the Revised Cost Committee (RCC) before consideration by the Advisory Committee as per the Ministry of Finance Office Order of 2016. Secretary (WR) highlighted that as per the order, RCC is applicable in respect of Revised Cost Estimate for projects being funded by Government of India.

Secretary (WR) enquired whether all the statutory clearances are in place for this project. Additional Chief Secretary, GoTS submitted that Stage-II forest clearance is awaited. The proposal for the same is being uploaded. Further, proposal for environment clearance has been submitted to MoEF & CC and the same is awaited. Secretary (WR) requested the representative from MoEF & CC to examine the proposal on priority.

After detailed deliberations, the project was accepted by the Advisory Committee of DoWR, RD & GR subject to the following considerations:

- (i) Project Authority shall obtain all the statutory clearances (Environment, Forest, Wildlife, Tribal Affairs and R&R etc.) from the competent authority, as required.
- (ii) Acceptance of project proposal by Advisory Committee of DoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme (PMKSY etc.) of DoWR, RD & GR.

3. **3<sup>rd</sup> RCE of Shahpur Kandi Dam Project, (MULTIPURPOSE PROJECT), Govt. of Punjab and J&K**

(CCA : 37,173 ha, Estimated Cost: Rs 3,394.49 crore (at Oct 2022 PL), BC Ratio: 1.65)

Shahpurkandi dam, located 11 km downstream of Ranjit Sagar Dam Project and 8 km upstream of Madhopur headworks on river Ravi in Pathankot district of Punjab, has been planned as a balancing reservoir to the Ranjit Sagar Dam Project to ensure optimum power production during peaking hours from Ranjit Sagar Dam Power Houses. Besides this, the project benefits include irrigation to CCA of 37,173 ha (5,000 ha in Punjab from Hydel



Channel + 32,173 ha in J& K through Ravi Canal) and an intensive irrigation of 1.18 lakh ha in Punjab through maintaining ideal pattern of flow in UBDC system. Further, hydropower generation for an installed capacity of 206 MW has also been envisaged in the Hydel Channel. The project has been declared as National Project by Government of India in 2008.

A detailed presentation on the present status of the project was made by the Chief Engineer (Dams), Water Resources Department, Punjab.

Secretary, DoWR, RD & GR raised the concern over delay in implementation of this project. Project authorities submitted that the delay has been for the covid situation and contractual issues. However, the contractual issues have been resolved and all the pending works have been awarded. Construction of main dam and head regulators is planned to be completed by December, 2023 and the project may be completed by October, 2025. Project Authority also submitted that all the required land has been acquired. Thus, there is no hindrance for completion of the project.

During the discussion, Additional Chief Advisor (Cost), Ministry of Finance mentioned that the project needs to be vetted by the Revised Cost Committee (RCC) as per Ministry of Expenditure Office Order, 2016. Member Secretary clarified that in present case the variation is below 20% after deduction of taxes and price escalation within time cycle, therefore, the same need not to be vetted by RCC before consideration of Advisory Committee.

Additional Chief Advisor (Cost), Ministry of Finance further suggested that the increase due to cost-over-run and time-over-run may be worked out separately. He assured to share a format for presenting the same. Member Secretary submitted that in future project appraisal, the same format will be also included.

Secretary, DoWR, RD & GR suggested that as the project benefits reach the people, the note for the Advisory Committee should have category wise (SC/ST/ General) mention of affected and benefitted persons.

Special Secretary, DoWR, RD & GR observed that out of 25% increase in cost, about 18% increase in cost is due to inadequate provision and requested to elaborate the same. Project Authorities clarified that it is mainly due to increase in cost of B-land (i.e., land acquisition and R&R).

After detailed deliberations, the project was accepted by the Advisory Committee of DoWR, RD & GR subject to following observations:

- i) Project Authority shall obtain all the statutory clearances (Environment, Forest, Wildlife, Tribal Affairs and R&R etc.) from the competent authority, if required.
- ii) State Finance concurrence for estimated cost of Rs. 3,394.49 crore at 2022 Price Level may be obtained by the Project Authority.



4. **2<sup>nd</sup> RCE of Kanhar Irrigation Project, (MAJOR PROJECT), Govt. of Uttar Pradesh**  
(Annual irrigation – 35,467 ha, Estimated Cost: Rs 3,459.80 crore (at 2022 PL), BC Ratio: 1.32)

The project envisages construction of an earthen dam with concrete spillway and right & left bank canal system to cater to CCA of 26,075 ha (annual irrigation of 35,467 ha) in Duddhi and Robertsganj Tehsils of Sonbhadra District of Uttar Pradesh. The project is also planned to provide 1.42 MCM drinking water supply in the canal en-route villages in Duddhi tehsil. The project is ongoing and 76% physical progress has been achieved and expenditure of Rs 2154 crore has been incurred till March 2023.

A detailed presentation for this project was made by the Chief Engineer, Kanhar Irrigation Project with detailed mentioning of the project components and its present implementation status.

Chairman, CWC raised serious concerns on health of the constructed portion of the project and seepage issues in the vicinity of dam area as reported by CSMRS. He pointed out that the Project Authority needs to get the approval of CWC before its filling. Advisor (WR), NITI Aayog endorsed the same and requested for examination of the design of all the major structures in this project and till that time the approval of the proposal may be deferred. Secretary, DoWR, RD & GR suggested the design aspects need to be looked into by CWC and once it is accepted from all angles the proposal may be placed for consideration by the Advisory Committee.

*In view of the design concerns, the **approval of the proposal was deferred** by the Advisory Committee of DoWR, RD & GR 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.*

5. **RCE of Bhaunrat Dam Project, (MEDIUM PROJECT), Govt. of Uttar Pradesh**  
(Annual irrigation – 16,000 ha, Estimated Cost: Rs. 1,252.12 crore at March, 2022 PL), BC Ratio: 1.14)

Jamni dam was constructed long back in year 1953. Subsequently, water demand has increased manifold, resulting in shortage of water for irrigation in the tail end of the distributary system. To restore irrigation facility in the tail end of the Jamni canal system along with extension of the area under irrigation, Bhaunrat dam has now been proposed on Jamni River (20 km downstream of the existing Jamni Dam) near village Bhaira, Mehrauni tehsil under district Lalitpur. The project envisages construction of dam (live storage of 40.55 MCM) and canal system to cater to CCA of 9,850 hectares (annual irrigation - 16,000

ha) and drinking water provision of 1.00 MCM in villages in Mahrouni Tehsil in Lalitpur district. The project is ongoing and about 80 % physical progress has been achieved and an expenditure of Rs 602 crore has been incurred till March 2023.

A detailed presentation for this project was made by the Chief Engineer (Pariyojana Betwa), Govt of UP, Jhansi, mentioning all the project details and the status of implementation of the project. He also mentioned that the project is planned to be completed by 2024-25.

After detailed deliberations, the project was accepted by the Advisory Committee of DoWR, RD & GR subject to the following considerations:

- (i) The State Finance concurrence for estimated cost of Rs. 1,252.12 crore at March, 2022 Price Level may be obtained by the Project Authority.
- (ii) Project Authority shall obtain all the statutory clearances (Environment, Forest, Wildlife, Tribal Affairs and R&R etc.) from the competent authority, as required.
- (iii) Acceptance of project proposal by Advisory Committee of DoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme (PMKSY etc.) of DoWR, RD & GR.

6. **Nira Deoghar Irrigation Project, (MAJOR PROJECT) Govt. of Maharashtra**  
(Annual irrigation – 60,581 ha, Estimated Cost: Rs 3,591.46 crore at June, 2022 PL, BC Ratio: 1.55)

Nira Deoghar project has been planned with earthen dam (live storage 332.13 MCM) and associated Left Bank Canal (18 km) & Right Bank Canal (158 km) off-takes from Deoghar dam. The project caters to irrigation in ICA of 43,050 ha (annual irrigation 60,581 ha) in Bhore Taluk of Pune District, Khandala, Phaltan Taluk of Satara District & Malshiras Taluk of Solapur District. A power plant of 6 MW (*not part of the present proposal*) with 2 units of 3 MW each (ROR with pondage Dam Toe) is installed for which irrigation cum power outlet, penstock is provided. The project is ongoing and an expenditure of Rs. 904.85 crore has been incurred till 03/2023. Construction of Deoghar dam, earthwork in RBC upto 65 km & lining in 10 km of RBC and Venawadi LIS are complete. The balance work is of lining of RBC (from 11 to 65 km), Piped distribution network (PDN) from 66 to 158 km, PDN in LBC (from 0 to 18 km) and 3 Lift Irrigation Schemes including disnet in PDN, namely Waghoshi LIS, Shekhmirwadi LIS & Gawadewadi LIS.

A detailed presentation was made by the Chief Engineer, Maharashtra Krishna Valley Development Corporation, Pune.

After detailed deliberations, Project was accepted by the Advisory Committee of DoWR, RD & GR subject to the following considerations:

- i) Project Authority shall obtain all the statutory clearances (Environment, Forest, Wildlife, Tribal Affairs and R&R etc.) from the competent authority, if required.



- ii) Acceptance of project proposal by Advisory Committee of DoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme (PMKSY etc.) of DoWR, RD & GR.

### **Flood Protection Schemes**

**7. Raising, Strengthening and Puccikaran of Left Kamla Balan embankment & Right Kamla Balan embankment Phase-I (Pipraghat Bridge to Thangha bridge) LKBE between km 27.10 to km 66.30 & RKBE between km 23.20 to km 64.00**  
(Estimated Cost: Rs. 325.12 crore @ 2019 PL, B.C. Ratio: 1.19)

The scheme has been envisaged to provide flood protection in the districts of Madhubani and Darbhanga in Bihar, covering an area of 48,000 ha and benefitting 12 lakh population by raising and strengthening of Left Kamla Balan embankment (from km 27.10 to km 66.30) and Right Kamla Balan embankment (from km 23.20 to km 64.00) along with the provision of pucca bituminous road over top of embankment.

A brief introduction was made by the Addl. Chief Secretary, Govt of Bihar explaining the need of this scheme. He informed that land acquisition in this project has already been made and the work was awarded at price level 2019. So far 85% physical progress has been achieved and an expenditure of around Rs 234 corer has been incurred. Subsequently, detailed presentation was made by the concerned Superintending Engineer of the project.

Secretary, DoWR, RD & GR pointed out that estimated cost has been worked out at PL of 2019 and 2022 although only one price level should be considered. Additional Chief Secretary, GoB clarified that since the works have been awarded at PL 2019, the estimated cost of Rs. 32,512.32 lakh at PL 2019 may be considered for its approval. Secretary, DoWR, RD & GR also suggested that there is a need of third-party monitoring of such projects at the beginning of such project so that quality of work is maintained from the beginning.

Advisor (WR), Niti Aayog suggested that physical model study for the flood schemes from CWPRS, Pune along with computational model study may be used in future. Addl. Chief Secretary, GoB informed that the scheme has been planned based on the computational model study performed by IIT, Roorkee. He further informed that India's second Physical Modelling Centre is being set up at Veerapur in the Supaul district of Bihar by the Water Resource Department.

Chairman, GFCC explained that this project is part of the Master Plan prepared by GFCC which is now being updated.

Secretary, DoWR, RD & GR suggested that as the project benefits reach the people, the note for the Advisory Committee should have a detailed category wise (SC/ST/ General) mention of affected and benefitted persons.

After discussion, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility toward release of funds under any scheme of DoWR, RD & GR.

**8 Raising, Strengthening and Puccikaran of left and right Kamla Balan embankment (Phase-II) from km 66.30 (Fatki Kutti) to km 92.50 (Punach) of L.K.B.E. and from km 64.00 (Thengha) to km 94.00 (Palwa) of R.K.B.E.**

*(Estimated Cost: Rs. 297.08 crore @ 2022 PL, B.C. Ratio: 1.98)*

The scheme has been envisaged to provide flood protection in the districts of Madhubani, Darbhanga and Saharsa in Bihar, covering an area of 72,300 ha and benefiting 12 lakh population by raising and strengthening of Left Kamla Balan embankment (from km 66.30 to km 92.50) and Right Kamla Balan embankment (from km 64.00 to km 94.00) along with the provision of pucca bituminous road over top of embankment.

A brief introduction was made by the Addl. Chief Secretary of Govt of Bihar explaining the need of this scheme. He mentioned that the work of Phase II has already started in 2023, and physical progress achieved is about 4.2%. Subsequently, detailed presentation was made by the concerned Superintending Engineer of the project.

After discussions, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility toward release of funds under any scheme of DoWR, RD & GR.

**9 Anti-erosion work over pachin river from DPS bridgepoint Rechi to Pagatara under Itanagar, Govt. of Arunachal Pradesh**

*(Estimated Cost: Rs 88.36 crore at 2022 PL, BC ratio-1.41)*

The project has been planned to benefit area of about 450 ha and 3,000 people of Itanagar township of Papumpare district by constructing RCC Counter fort retaining wall with toe protection cum launching apron for a total length of 6.43 km on both the banks (5.83 km on left bank & 0.60 km on right bank) of Pachin River in Itanagar, Arunachal Pradesh.

A detailed presentation on the scheme was made by the project authority informing that due to the extensive developments around the river stretches and in city areas, lateral migration and bank erosion in the river reach is being experienced during the monsoon season. It was mentioned in the presentation that the scheme has been approved by the State Technical Advisory Committee and Flood Control Board of Arunachal Pradesh in 2021 & 2022, respectively.

Advisor (WR), Niti Aayog raised the issue of high cost of counter fort retaining wall. Project authorities informed that economics of counter fort retaining wall has become acceptable as the boulders are not available in close vicinity of the project and transportation of boulders from more than 100 km distance will be costly.



After detailed deliberations, the Advisory Committee accepted the scheme. 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 Erosion control and Flood management over Sibokorong river under Pasighat sub-division, Govt. of Arunachal Pradesh**

*(Estimated Cost Rs. 35.50 crore at 2022 PL, BC Ratio. 1.82)*

The project has been planned to benefit area of about 120 ha and 12,500 people of district East Siang, Arunachal Pradesh, by constructing earthen embankment for a total length of 0.50 km on right bank, river bank revetment & launching apron for a total length of 5.75 km (Left Bank – 3.25 km and Right Bank - 2.50 km) along Sibokorong river in Pasighat township of East Siang District, Arunachal Pradesh.

A detailed presentation on the scheme was made by the project authority informing that due to the extensive developments around the river stretches and in city areas, lateral migration and bank erosion in the river reach is being experienced during the monsoon season. It has been mentioned in the presentation that the scheme has been approved by the State Technical Advisory Committee and Flood Control Board of Arunachal Pradesh in 2021 & 2022, respectively.

After detailed deliberations, the Advisory Committee accepted the scheme. 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.

**11 Anti-erosion work over Senki river at Chandranagar, Itanagar, Govt. of Arunachal Pradesh**

*(Estimated Cost Rs. 73.21 crore at 2022 PL, BC Ratio. 1.38)*

The project has been planned to benefit area of about 68 ha and 18,000 people of district Papumpare, Arunachal Pradesh by constructing RCC Counter fort Retaining Wall along with the toe protection cum launching apron for a total length of 4.16 km on both the banks (2.16 km on left bank & 2 km on right bank) along Senki river in Itanagar township of Papumpare District, Arunachal Pradesh

A detailed presentation on the scheme was made by the project authority informing that due to the extensive developments around the river stretches and in city areas, lateral migration and bank erosion in the river reach is being experienced during the monsoon season. It has been mentioned in the presentation that the scheme has been approved by the State Technical Advisory Committee and Flood Control Board of Arunachal Pradesh in 2021 & 2022, respectively.

After detailed deliberations, the Advisory Committee accepted the scheme. 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.

**12 Flood protection work along right bank of Kali river at Army Camp-2 battalion campus Galati in Block Dharchula, District Pithoragarh, Uttarakhand**  
(Estimated cost Rs. 40.60 crore at 2022 PL, B.C. Ratio: 1.45 )

The origin of Kali river is in the upper Himalayan region, and it flows on the eastern border of the Pithoragarh district forming international boundary between India and Nepal. Due to heavy rainfall/cloud burst in catchment of Kali river and subsequent devastating flood, severe erosion often takes place along its banks causing widespread damage including Army areas, etc. Construction of retaining walls, spurs of varying lengths along Kali river on Nepal side has further aggravated bank erosion tendency on Indian side.

The project has been formulated to protect 14.0 ha non-agricultural land safeguarding 150 houses, 1 km Road, 1 Puja Sthal benefitting a population of 600 persons.

A detailed presentation was made by the Superintending Engineer, Irrigation Department, Uttarakhand mentioning that the scheme has been duly recommended by the State Technical Advisory committee, and also by GFCC. The project components include construction of retaining wall with provision of launching apron & studs.

During discussion, Member, GFCC explained that due to completion of embankment structure on the Nepal side, water of Kali river is damaging the Indian bank side affecting the security and stability of the Army camp located next to the bank. Commissioner (FM) also clarified that as per PMO's letter dated 22.11.2022, the project being purely for military establishment, funding of the project will be done by Ministry of Defense.

Special Secretary mentioned that in all flood protection projects, project authority should ensure simultaneous implementation of structural and non-structural measures of flood management.

After detailed discussion, the Advisory Committee accepted the proposal. However, the acceptance of the proposal by the Advisory committee of DoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme of DoWR, RD & GR.

### **Supplementary Agenda Items**

With the permission of the Secretary, DoWR, RD & GR, following project proposal was also taken up by the Committee:



**13 Extension Renovation and Modernisation of Sanjay Sarovar Project District Seoni and Balaghat (MAJOR PROJECT), Govt of Madhya Pradesh**

*(Annual irrigation after ERM – 1,05,253 ha; Estimated Cost: Rs. 332.54 crore at March 2023 PL), BC Ratio: 1.56)*

Upper Wainganga Project is an existing project located in Seoni district of Madhya Pradesh on the river Wainganga, a tributary of Pranhita which, in turn, is a tributary of Godavari river. The project was originally planned to irrigate an area of 1,05,253 ha in Seoni (67,630 ha) and Balaghat (37,623 ha) districts of Madhya Pradesh besides providing protective irrigation to 15,788 ha of Kharif area in the existing command of Dhuti Right Bank Canal system. Investment clearance was accorded by then Planning Commission to this project for Rs. 50.60 crore at 1975 price level in 1978. The construction of Sanjay Sarovar dam was completed in 1994-95 and construction of canal system of Seoni & Balaghat districts was completed in 2003 with AIBP assistance.

The designed irrigation potential (1,05,253 ha) has never been fully utilized. The canal system is more than 25 year old and there is deterioration in existing canal system including structures due to lack of maintenance leading to siltation and seepage losses through canal bed and canal banks. Thus the irrigation water supply is not reaching the tail end. The present utilization of the project is to the tune of 93,803 ha. The ERM proposal with re-sectioning and lining of Bhingarh Right Bank Canal (B.R.B.C), Tilwara Left Bank Canal (T.L.B.C) and Dhuty Left Bank Canal (DLBC) systems including its distributaries, minor, sub minors and outlets has been proposed to bridge the gap of 11,450 ha (1,05,253 - 93,803) between irrigation potential created and irrigation potential utilized. Dhuty Right Bank Canal (DRBC) system is not part of Sanjay Sarovar Project.

A detailed presentation was made by the Chief Engineer, Seoni, GoMP mentioning that there is no change in scope in this project with respect to the earlier approved proposal in 1978. He further mentioned that the project proposal has been examined in CWC and found techno-economically acceptable.

Secretary, DoWR, RD & GR stressed upon the point that project authorities must explore the possibility of micro irrigation in the command after completion of ERM of the project. Special Secretary (WR) emphasized the point that project authorities must ensure better water user efficiency along with operation and maintenance. Chairman, CWC suggested project authorities to ensure increasing irrigation intensity in the existing command from saved water from the project using micro irrigation. Advisor (WR&LR), NITI Aayog also emphasized the need of micro irrigation, wherever possible, so that water is saved and cost of land requirement gets minimized.

After deliberation the proposal was accepted by the Advisory Committee with the following recommendations:

- i) Project authority may explore the possibility of use of micro irrigation technique for efficient utilization of the water and thereby increase the irrigation intensity. Project Authority may also explore the possibility of using Pipe Distribution Network to incorporate additional CCA under this project.
- ii) Project Authority may ensure better operation and maintenance of the infrastructure to be created under ERM proposal.
- iii) Project Authority may ensure all the statutory clearances (Environment, Forest, Wildlife, Tribal Affairs and R&R etc.) from the competent authority, as required.
- iv) Acceptance of project proposal by Advisory Committee of DoWR, RD & GR does not guarantee any eligibility towards release of fund under any existing scheme (PMKSY etc.) of DoWR, RD & GR.

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**  
**152<sup>nd</sup> MEETING HELD ON, JULY 14<sup>th</sup>, 2023**

**List of Participants**

Shri Pankaj Kumar, 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	Avinash Mishra (Representing Advisor (WR&LR), NITI Aayog)	Member
3	Dr. Saurabh Upadhyay, Scientist-C (Representing Secretary MoEF & CC)	Member
4	Satish Kumar, Member, CGWB (representing Chairman, CGWB)	Member
5	A.K. Sahoo, Deputy Secretary (Finance) (Representing Joint Secretary, & Financial Advisor, DoWR, RD & GR)	Member
6	Adlul Islam, Pr. Scientist, ICAR (Representing DG, ICAR)	Member
7	Samidha Singh, Director, MoTA (Representing Secretary, Ministry of Tribal Affairs)	Member
8	R.A.S. Patel, Deputy Commissioner (RFS) (Representing Secretary, Department of Agriculture & Farmers Welfare)	Member
9	Pawan Kumar, Additional Chief Advisor (Cost) (Representing Deptt. of Expenditure)	Member
10	Yogesh Paithankar, Chief Engineer, Project Appraisal Organization, CWC	Member Secretary

**Special Invitees:**

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

1. Debashree Mukherjee, Special Secretary
2. A.S. Goel, Commissioner (SPR)
3. Atul Jain, Commissioner (FM)
4. Sharad Kumar Kaushal, Deputy Commissioner (FM)

**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. Pushkar Singh K., Chief Engineer, PPO, New Delhi
5. S.D. Sharma, Chief Engineer, Design (E&NE), New Delhi
6. D. Ranga Reddy, Chief Engineer, KGB, Hyderabad
7. Rakesh Kashyap, Chief Engineer, IBO, Chandigarh
8. B.P Pandey, Chief Engineer, IMO, New Delhi
9. Anupam Prasad, Chief Engineer, UGBO, Lucknow
10. S.K. Sharma, Director, CMDD (E&NE), New Delhi

11. Piyush Kumar, Director, FMP Dte., New Delhi
12. Nityananda Mukherjee, Director, PA(N) , New Delhi
13. Kiran Pramanik, Director, CA(HWF) Dte , New Delhi
14. Rajiv Kumar, Director, PA(S) , New Delhi
15. Piyush Kumar, Director, FM-I, Dte., New Delhi
16. A.S Banode, Director, CA (Irr.)-I Dte., New Delhi
17. M. Ramesh Kumar, Director, M&A Dte., Hyderabad
18. Hitesh Kumar Gupta, Deputy Director PA(N) Dte, New Delhi
19. Mohd. Amanullah, Deputy Director CA (Irr.)-2 Dte., New Delhi
20. Indrajeet Kumar, Deputy Director PA(N) Dte, New Delhi
21. Ishan Srivastava, Deputy Director PA(S) Dte, New Delhi
22. Nitesh Kumar, Deputy Director PA(C) Dte, New Delhi
23. Nitish Nitin, Assistant Director PA(N) Dte, New Delhi
24. Satyajit Burman, Assistant Director, PA(S) Dte.
25. Amit Kumar-II, Assistant Director-II, PA(S) Dte.

**Godavari River Management Board (GRMB), Hyderabad**  
**Smt./Shri**

1. Dr. M.K Sinha, Chairman
2. R.K. Kanodia, Member

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

1. Gulshan Raj , Chairman
2. Anup Kumar Srivastava, Member
3. Shamshul Quamer, Deputy Director

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

1. Dr. Rajat Kumar, Special Chief Secretary to Government, Irrigation & C.A.D Department
2. Sri. C. Muralidhar, Engineer-in-Chief (General), Irrigation & C.A.D Department
3. Sri. B. Vijaya Bhasker Rao, Chief Engineer, Irrigation, Mulugu District
4. Sri. T. Srinivas, Chief Engineer, Irrigation, Adilabad District
5. Sri. Sridhar Rao Deshpande, Officer on Special Duty to Hon'ble Chief Minister (Irrigation)
6. Sri. S. Srinivas Reddy, Superintending Engineer, Irrigation Circle, Kothagudem
7. Sri. R. Ravi Kumar, Deputy Executive Engineer, Irrigation Sub-division no.3, Eturnagaram
8. Sri. V. Jagdeesh, Executive Engineer, Irrigation Division no.2, Eturnagaram
9. Sri. K. Dasharadham, Deputy Executive Engineer, Irrigation Sub-division no.4, Luxetipet
10. Sri. Valeem Mohammed, Assistant Engineer, Irrigation Sub-division no.3, Eturnagaram,
11. Sri. Md. Mahboob Hussain, DPR Consultant (Retd. Executive Engineer), ISWR unit, Irrigation & CAD Department

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

1. Sher Singh, Chief Engineer Dams, Water Resources Department
2. Lakhwinder Singh, Executive Engineer
3. Sh. Om Pal, ADE

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

1. Har Prasad, Chief Engineer, Kanhar Irrigation Project
2. Rajpal Singh, Chief Engineer, (Pariyojana Betwa), UPID, Jhansi
3. Sh Sheel Chandra Upadhyay, Superintending Engineer
4. Deepak Kumar, Superintending Engineer, Kanhar Irrigation Project
5. Vinod Kumar, Executive Engineer, Kanhar Irrigation Project
6. TN Jha, Assistant Engineer, Kanhar Irrigation Project
7. Sanjay Gupta, Assistant Engineer, Kanhar Irrigation Project

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

1. Shri. A. A. Kapole, Executive Director
2. Shri. H. V. Gunale, Chief Engineer, Water Resources Dept. (WR)
3. Shri. K. H. Patil, Superintending Engineer, Pune Irrigation Project Circle
4. Shri. S. V. Kodulkar, Executive Engineer, Nira Deoghar Project Division, Sangvi
5. Shri. D. M. Dubal, Executive Engineer, Pune Irrigation Division,
6. Shri. S. N. Pawar, Subdivisional Engineer, Nira Deoghar Project subdivision no.6
7. Shri. A. S. Vachakal, Junior Engineer,, Nira Deoghar Project Division, Sangvi
8. Shri. S. B. Chavan, Junior Engineer, Nira Deoghar Project subdivision no.2

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

1. Shri A.K Dehariya, Chief Engineer, Wainganga Basin WRD
2. Shri Yuvraj Warke, Superintending Engineer, WRD circle, Balaghat
3. Shri Yogendra Singh, Executive Engineer, Wainganga Division, Balaghat
4. Neha Khandelkar, Sub-Engineer

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

1. Ms Sadhana Deori, Secretary, Water Resource Department
2. Sh. Likar Angu, Chief Engineer, (P&D), Water Resource Department
3. Sh. G. Borang, Chief Engineer, (W/Z), Water Resource Department
4. Sh. Harish Kumar Chauhan, Liaison Officer, Water Resource Department
5. Vishal Singh, Consultant, Water Resource Department

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

1. Chaitanya Prasad, Additional Chief Secretary, WRD, Govt. of Bihar
2. Charu Chandra Mishra, Resident Engineer ( Superintending Engineer), WRD

3. Kumud Ranjan, Executive Engineer, Flood control division-2, Jhanjharour, WRD
4. Dilip Kumar, Superintending Engineer, Flood control Planning & Monitoring circle, WRD

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

1. Sri Vikas Shrivastava, Superintending Engineer, Irrigation Work Division, Pithoragarh,
2. Sri Deepak Kumar Sharma, Assistant Engineer, Sub Division-1, Irrigation Division, Dharchula

