

MOST IMMEDIATE



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Government of India
Ministry of Water Resources,
River Development & Ganga Rejuvenation
(Peninsular Rivers Wing)

जल बचत - जल संवर्धन

Room No. 242 B, Krishi Bhawan,
Dr. Rajendra Prasad Road, New Delhi
Dated the, 15th September, 2016

Subject : 4th meeting of National Level Steering Committee (NLSC) for Dam Rehabilitation and Improvement Project - reg.

The 4th meeting of National Level Steering Committee (NLSC) for Dam Rehabilitation and Improvement Project (DRIP) was held on under the Chairmanship of OSD (WR,RD&GR) on 05.08.2016 at Shram Shakti Bhawan, Rafi Marg, New Delhi. The minutes of the meeting are enclosed for further necessary action.

(S.K. Kamboj)
Senior Joint Commissioner
Telefax : 23388020

To

All concerned States / Implementing Agencies under DRIP
All Members / participants of the meeting

Copy also to :

- i) PPS to Secretary (WR,RD&GR)
- ii) PS to OSD (WR,RD&GR)
- iii) PPS to AS (WR,RD&GR)
- iv) PPS to JS (Pen. Riv.)

✓ Copy also to : NIC for uploading this on Ministry's website.

MINUTES OF THE FOURTH MEETING OF
THE NATIONAL LEVEL STEERING COMMITTEE (NLSC) FOR DAM
REHABILITATION & IMPROVEMENT PROJECT
HELD ON 05.08.2016 AT NEW DELHI.

The fourth meeting of the National Level Steering Committee (NLSC) for the "Dam Rehabilitation and Improvement Project (DRIP)" was held under the Chairmanship of OSD, MoWR, RD& GR on 05.08.2016 at 1500 hrs. in the Committee Room of the Ministry. The list of participants is enclosed at Annexure-I.

At the outset, Chairman welcomed the participants. Thereafter, a consolidated presentation on the progress review of the DRIP was presented by the Consultant. Key observations are summarized below:

1. **DRIP WORKFLOW STATUS**(for 224 dam projects) – The overall progress of rehabilitation work at the 224 DRIP dams was discussed including the number of dams at which work has been awarded, and the status of expenditures.
 - I. Work has been awarded at 167 dams (75% of the total) as of the end of July 2016. There is an increase of 79 dams, or 90%, from the number of dams at which work was awarded in February 2016.
 - II. Implementing Agencies (IAs) having the largest numbers of dams at which work have not been awarded are TANGEDCO (24 dams) and Karnataka WRD (14 dams).
 - III. The amount of work awarded is ₹1,059 Cr, which is 40% of the targeted expenditure under the project.
 - IV. Madhya Pradesh WRD informed that their number of dams have been revised down to 26 and works are progressing on 22 dams. The rehabilitation works for the 4 dams will be awarded by October end.
 - V. Tamil Nadu WRD informed that works have been awarded for 64 dams out of 67 dams and works for the balance dams will be awarded by October 2016.
 - VI. Karnataka WRD informed that informed that works have been awarded for 12 dams out of 26 dams and works for the balance dams will also be awarded by September 2016.
 - VII. TANGEDCO assured that priority projects are being taken up and offered explanation for enhanced cost of DRIP dams. The 14 dam works already been awarded and NIT for rest of the works will be invited very shortly. TANGEDCO representative also informed that bid document of desiltation works of Kundahpalam and Papanasam weir have been finalized and NIT will be issued soon. Chairman expressed the concern for slow progress of TANGEDCO in DRIP and requested the officials of Tamil Nadu WRD to assist the TANGEDCO for early finalization of award of work packages.
 - VIII. UJVN Ltd. informed that due to non-availability of closure, the packages for Ichari dam have not awarded so far and the process for inviting bid will be restarted soon.

2. **HIGH VALUE PROJECTS STATUS**– During the discussions on the 26 high-value dam projects, following was observed :

- a. Work has been awarded for 18 dams out of the 26 high-value project dams (69%).
- b. The amount of work awarded for these dams is ₹414 Cr, which is 28% of the targeted expenditure. NIT for balance works costing Rs. 840 Cr. is to be expedited to be concluded within the DRIP completion time.

3. **HIRAKUD ADDITIONAL SPILLWAY**: -Summary of progress to date for the additional spillway planned for Hirakud dam needed to partly accommodate the revised inflow design flood to the reservoir follows:

- a. Bid documents for left bank Additional Spillway approved by World Bank for ₹ 350 Cr.
- b. Change in axis due to poor geology required revision of above which has been done. Increase in cost estimate for downstream spill channel and Phase-1 landscaping works is under finalisation.
- c. Detailed social survey for development of R&R scheme and forest clearance for 10 hectares of land with estimated cost of ₹ 67 Cr is under finalisation.

Chairman requested the Principal Secretary WRD, Odisha to complete all the pending pre-requisites to enable early award of additional spillway works, who assured that all issue would be sorted out timely and works will be awarded accordingly. Further, Chairman directed to share the Hirakud analysis report with all the stakeholders.

4. **DRIP BUDGET STATUS**– Total expenditure is Rs. 344 Cr. Chairman noted with concern the slow disbursement under the project and requested the DRIP implementing agencies to award the remaining works as early as possible, so that financial disbursement can pick up. The approved Project Screening Templates (PSTs) cost of 212 dams in 9 IAs works out to ₹ 2626 Cr against a total provision of ₹ 1610 Cr towards first component (i.e. rehabilitation cost). In view of remedial measures proposed by the Dam Safety Review Panel (DSRP), further detailing and suggestions of the DRIP Consultants, there is a substantial enhancement in rehabilitation cost. It was proposed that the upward trend of the cost would be taken up with World Bank and DEA, Ministry of Finance, Govt. of India.

5. **3rd PARTY CONSTRUCTION SUPERVISION OF DRIP DAMS**: Committee informed about the third party construction visits carried out routinely (at least once every three months) to ensure proper construction techniques and compliance with proposed the scope of rehabilitation efforts. Till date, 243 constructions site visits have been completed for 106 dams by the DRIP Consultant. Third Party Quality Control laboratory tests have been completed for 18 dams in Odisha, 3 in Madhya Pradesh, 2 in Kerala and 21 in Tamil Nadu. Chairman emphasized the urgent need for State Project Management Unit (SPMU) to take note of the Construction Site Visit Reports of DRIP Consultants for undertaking corrective measures wherever they have been flagged. Also, SPMUs need to ensure that conditions of contract are being complied with in terms of insurance, schedule, sufficiency of labour, staff and safety, health & environment provisions etc.

6. **DRIP AUDITS**: Chief Engineer, DSO informed the Committee regarding the various audits conducted by the CAG, World Bank and the Ministry of WR,RD&GR. He further informed

that CAG/AG audit completed in time for CWC and all IAs for the last three financial years. World Bank has also undertaken the third party audit for the year 2013-2014 and 2014-15. Preventive vigilance audit completed by Ministry of WR, RD&GR for CPMU. Internal audit by Ministry of WR, RD&GR for CPMU and for DRIP MIS and DRIP website were also completed.

7. **PARTICIPATION OF ACADEMIC INSTITUTIONS:** Activities related to participating academic institutions in dam safety areas were discussed. Committee expressed the need for capacity building of the selected academic and research institutes in the area of dam safety, so that they can provide the need-based consultancy to the concerned States. JS & FA, MoWR, RD&GR suggested for release of funds to Academic Institutes provided that an MoU is signed with these academic institutes. He also suggested to explore the possibility of inclusion of IIT Roorkee and IIT Kanpur under this program to balance the regional requirements in respect of IAs under DRIP.
 8. **SEISMIC INSTRUMENTATION:** A new initiative to establish seismic instrumentation stations at all DRIP dams above 30 metres high and in Seismic Zones-II and above was discussed. Chairman appreciated this effort and suggested early signing of the agreement with the NGRI, IIT Roorkee and CWPRS with concerned IAs. Chief Engineer, Dam Safety, CWC informed that Draft MoU is under preparation to have long term collaboration with these institutes and the State agencies for; (i) Finalization of specification, (2) Analysis of specific event response and (3) long term archives of seismic data.
 9. **TIME EXTENSION OF THE PROJECT:** In view of anticipated complexities at some of the dam projects like Hirakud and desiltation work of few dams of TANGEDCO, project authorities had desired during the 14th Technical Committee meeting additional time of two year for completing the project. Central Project Management Unit is taking necessary action in this regard.
 10. **INUNDATION MAPPING AND EMERGENCY ACTION PLANS (EAPs):** Progress of the flood hazard mapping for emergency action planning was discussed. It was informed that inundation maps have been prepared for 10 dams in Odisha and 3 in Madhya Pradesh. Works on flood hazard maps for 12 additional dams are currently being prepared. State Implementing Agencies have to prepare the Emergency Action Plan (EAP) using the templates available in the Emergency Action Planning of dams published by the CWC. Chairperson emphasized the need for EAPs for each large dam and requested the DRIP IAs to take immediate action in this regard, so that EAP can be prepared for each DRIP dams within project completion time. Chairperson also desired that State IAs need to be actively involved in this activity and CPMU may plan the required training courses for these IAs so that States can develop these documents by themselves.
- Chairman suggested that CWC may prepare a Model EAP and the same may be circulated to all concerned dam authorities for their help in preparation to their own EAPs. Further, Chairman also suggested that CWC officials may also be associated with the dam authorities/States in this work.
11. **INSTITUTIONAL STRENGTHENING:** It was informed that so far 62 training programmes have been conducted on various aspects of dam safety, procurement and financial management systems benefitting more than 2200 participants. Two international trainings (Deltares training, Netherlands in May 2016 and USBR training in June 2016)

were also discussed during the meeting. Chairman suggested to all IAs to utilize these trainings in an effective manner. Discussion on the exposure visits to Japan also come up in the meeting. Chairman also desired that feedback/views from officers/representatives who had undergone foreign training may be obtained so that the same can be utilized in deciding future training programmes.

Further it was informed that The ***THIRD NATIONAL DAM SAFETY CONFERENCE*** will be organized during February 16th-17th, 2017 at IIT Roorkee in collaboration with IIT Roorkee and Uttarakhand Jalvidyut Nigam Ltd.

**LIST OF PARTICIPANTS OF FOURTH MEETING OF
NATIONAL LEVEL STEERING COMMITTEE FOR DRIP**

MINISTRY OF WATER RESOURCES, RD&GR

1. Dr. Amarjit Singh, OSD, MoWR, RD & GR – in Chair
2. Shri U.P. Singh, Additional Secretary
3. Shri Sanjay Kundu, Joint Secretary (PP&Pen. Riv.)
4. Shri Jagmohan Gupta, JS&FA
5. Shri S.K. Kamboj, Senior Joint Commissioner (Pen. Riv.)

CENTRAL WATER COMMISSION

6. Shri G.S. Jha, Chairman
7. Dr. B.R.K. Pillai, Chief Engineer (DSO)
8. Shri Pramod Narayan, Director(DSR)
9. Shri Mayank Singh Chetan, Deputy Director
10. Shri Bikram Kesharee Patra, Assistant Director

OTHER CENTRAL GOVERNMENT DEPARTMENT

11. Shri Ashok Kumar, Under Secretary, DEA

STATE GOVERNMENTS / IMPLEMENTING AGENCIES

12. Shri Pradeep Jena, Principal Secretary (Irrigation), Govt. of Odisha
13. Shri Rakesh Singh, Principal Secretary, WRD, GoK
14. Shri R. Anil Kumar, Chief Engineer (DRIP), KSEB
15. Shri Manoj Kumar Acharya, Chief Engineer, BODHI, M.P.W.R.D., Bhopal
16. Shri Mahanudevan V.K., Chief Engineer, WRD, Govt. of Kerala
17. Shri C. Ramesh, Chief Engineer, Civil Designs, TENGEDCO
18. Shri Samir Kumar Sinha, Chief Engineer (C), DVC
19. Shri Vimal Kumar, DGM, UJVNL
20. Shri Madhava, Project Director, KDRD, GoK
21. Shri Rajeev S, Director, KSEB, Govt. of Kerala
22. Shri S.B. Pandey, Dy. Chief Engineer (C), DVC
23. Shri P Gunasekaran, Executive Engineer/SPMU, WRD, Tamil Nadu
24. Shri Dharmendra Singh, Executive Engineer(Civil), UJVNL
25. Shri A. Madhavan, Executive Engineer, Govt. of Tamil Nadu
26. Shri B. Shankar Raman, SE/TANGEDCO
27. Shri Vijaya Kumar, Assistant Engineer & Liaison Officer, Govt. of Kerala
28. Shri Sanjeev Lohani, Assistant Engineer, UJVNL

EGIS

29. Dr. David Froehlich, Team Leader, EGIS
30. Shri Tom Kendall, DRIP CPMU
31. Shri Edward Flint, Dam Safety Specialist, CPMU, Consultant
32. Shri Vinod Kumar Verma, Dam Safety Specialist, EGIS-India
33. Shri Vinod Kumar Kapoor, DTL, EGIS