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Kerala Water Resources Department (KWRD) is one of the implementing agency in the ongoing Dam Rehabilitation and Improvement Project (DRIP) with financial outlay of Rs. 360 Cr aiming to rehabilitate 16 dams.

Rehabilitation is being done by KWRD for 16 dams as per recommendation of Dam Safety Review Panel (DSRP). Apart from structural measures, non-structural measures like Emergency Action Plans (EAP) for 12 dams and Operation and Maintenance (O&M) Manuals for 4 dams have been published in accordance with the latest guidelines published by CWC under DRIP; the documents for the remaining DRIP dams are under preparation. The static and dynamic data pertaining to all the DRIP dams are being entered into DHARMA, the web-based software package to support the effective collection and management of asset and health data all large dams of India.

Major rehabilitation works taken up under DRIP includes repairs to dam body, treatment to dam body in upstream side, Hydro-mechanical repair works, guniting, grouting, installation of surveillance system and Instrumentation for dams etc.

Institutional Capacity Building is one of the vital components of DRIP. KWRD has taken full advantage of various national and international trainings, Dam safety conferences held both across and outside the country by nominating several field engineers to participate in these programmes. Also KWRD and KSEBL in collaboration with CWC hosted the First International Dam Safety Conference - 2018 in Thiruvananthapuram. All these initiatives have helped the State in enhancing its competence in dam management along with fostering dam safety culture in Kerala.

I am pleased to inform that KWRD will also be an active participant of the DRIP Phase II and Phase III with a proposal to rehabilitate 16 dams with an estimated financial outlay of Rs 166 Cr. I thank Central Project Management Unit (CPMU) in CWC for providing continuous and much needed support to implement the project on ground. I wish all the success for this bulletin intended to disseminate the DRIP activities among all the stakeholders.

(Dr Vishwas Mehta)
Addl. Chief Secretary
Water Resources Department
Govt. of Kerala
It is time to bid good bye to the year 2019 and welcome 2020. When we look at what we have accomplished during 2019 in the DRIP, it gives me satisfaction. We have completed about 80% of dam rehabilitation works and we have promoted greater awareness about dam safety among all those concerned through the national and international dam safety conferences, trainings, social media and other publicity measures.

Now the emphasis is to complete the balance works and utilize the funds within the extended time period for the project, that is, June 2020. All the Implementing Agencies should fast track their procurement processes, enforce strict timelines for the contractors to finish their contracts within the stipulated timelines and submit the invoices. It is also time to concentrate on the project development objectives and prepare the Implementation Completion and Results Report (ICRR).

We have given a major thrust to institutional strengthening in the DRIP for sustainable dam safety management. Making use of the expertise available with our academic partners, we have organized several training programmes on subjects of relevance to dam community and many more are in the pipeline. It is a very valuable opportunity to be utilized by all the Implementing Agencies. I urge all the Implementing Agencies of ongoing DRIP as well as those of DRIP Phase II and Phase III to nominate their engineers to these training programmes.

As you may be aware, International Commission on Large Dams (ICOLD) is organizing its 88th Annual Meeting and Symposium on ‘Sustainable Development of Dams and River Basins’ (ICOLD 2020) in New Delhi during 04 to 10 April 2020. DRIP is collaborating with ICOLD and INCOLD in organizing ICOLD 2020. DRIP is entrusted with the responsibility of managing the Symposium themes 3 & 4 dealing with ‘Advances in Dam Safety, Risk Assessment and Management’ and ‘Advances in the Rehabilitation of Dams and Appurtenant Works’ and Technical Workshop dealing with ‘Life Extension Technologies and Strategies for Ageing Dams’. Dam fraternity in India should take advantage of this huge gathering of world renounced dam experts to learn from their experience and expertise by participating in ICOLD 2020.

Finally, continuity between the ongoing DRIP and DRIP Phase II and Phase III has to be maintained by completing the preparatory activities in time. The Central Project Management Unit in CWC will be ever willing to help in this regard. I wish all the project stakeholders a happy, healthy and a prosperous new year.

(Gulshan Raj)
Chief Engineer (CDSO), CWC
Dam rehabilitation works have been completed in 156 out of 198 dam projects covered under DRIP. The Cost of DRIP is Rs. 3466 Cr. The Commitment up to December 31, 2019 is Rs. 2968 Cr. and the cumulative expenditure incurred up to December 31, 2019 is Rs. 2152 Cr. Concerted efforts are being made for completion of all the rehabilitation works before 30 June 2020 for effective closure of the scheme.

Additional spillway, at a cost of Rs. 370 crores, is being constructed for Hirakud dam under DRIP to safely discharge the flood waters to the tune of 9,000 cubic metres per second. A third party construction supervision visit was organized to Hirakud dam to review the quality and progress of the construction of additional spillway on the left bank of Gandhi Hillock during 16 to 17 October 2019. CWC is also providing technical support for timely review of the designs for the additional spillway. CWC design team along with officials from CPMU, GSI, CSRMS inspected the rehabilitation works of Hirakud dam and reviewed the site where the second spillway is being constructed.
2.2. Design Review Support for the Construction of Additional Spillway for Hirakud Dam

Memorandum of Understanding was signed for availing Consultancy Services of CWC for vetting & approval of designs & drawings related to the construction of additional spillway for Hirakud Dam under Dam Rehabilitation and Improvement Project (DRIP). Shri Sunil Naik, Chief Engineer and Basin Manager, Upper Mahanadi Basin, Odisha Water Resources Department and Shri T.K. Sivarajan, Chief Engineer, Designs (E&NE), Central Water Commission exchanged the MoU on the 22nd October 2019 in the presence of Chairman, CWC and other senior officials of CWC, and the World Bank officials.

MoU signing between CWC and OWRD, SewaBhawan, New Delhi

2.3. 24th meeting of the Technical Committee (TC)

The 24th meeting of the TC for Dam Rehabilitation and Improvement Project (DRIP) was held on 24 October 2019, at Kozhikode, Kerala under the chairmanship of Sh A K Sinha, Chairman CWC and TC to review the financial and physical progress of the DRIP Scheme and to recommend measures to resolve various issues pertaining to the project implementation.

Members / Representatives of the Central Water Commission, World Bank, DRIP Implementing Agencies and DRIP Academic partners attended this meeting. Shri A.K. Sinha, Chairman CWC and Chairman, TC presided over the meeting. Shri B. Ashok, Secretary, Kerala WRD addressed the gathering. A field visit to Kakkayam & Kuttiyadi Dams were organized on 25th October 2019.

24th TC meeting of DRIP, Kozhikode, Kerala
2.4. Tripartite Portfolio Review Meeting

Tripartite Portfolio Review Meeting organised by DEA, was held in Bhopal on 5th December, 2019 to review the status of externally aided projects. This meeting was attended by the officials of different ongoing projects in the country. DRIP team also participated in the meeting in which deliberations regarding DRIP progress were done. Since, DRIP is scheduled for closure on June 2020, DEA and World Bank recommended for fast tracking the remaining activities to successfully close the project on time.

2.5. International Cooperation

IC-IMPACTS (the India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability) is the first, and only, Canada-India Research Centre of Excellence established through the Canadian Networks of Centres of Excellence (NCE) as a new Centre dedicated to the development of research collaborations between Canada and India. Built upon the vision of three of Canada’s leading research universities – The University of British Columbia, the University of Alberta, and the University of Toronto – IC-IMPACTS is a pan-Canadian Centre bringing together researchers, industry innovators, community leaders, government agencies, and community organizations from across India and Canada, to work hand-in-hand to find solutions to the key challenges that affect the quality of life of millions of people in Indian and Canadian communities. A meeting with officials from IC-IMPACTS was held in CPMU office on 10 December 2019 to explore the possibilities for cooperation between DRIP and IC-IMPACTS.
2.6. Seismic Hazard Assessment

A meeting to review and validate the Seismic Hazard Assessment of South India carried out by the Earthquake Engineering Department of Indian Institute of Technology Roorkee was held in Sewa Bhawan, New Delhi under the Chairmanship of Chairman, CWC on 12 December 2019. Based on the discussion during the meeting, IIT Roorkee agreed to finalise the study at the earliest. CWPRS which is working on the Seismic Hazard mapping of North India will integrate both the maps to develop Seismic Hazard Information System (SHAISYS) which will be used while designing the dams and their rehabilitations to take care of the seismicity at the dam location.

Meeting to review and validate SHAISYS on 12th December 2019 in CWC, New Delhi

2.7. Inspection of few dams of Kerala WRD & KSEB

CPMU officials visited Moolathara Project to review the progress of the rehabilitation work during 16-17 December 2019

Visit to Periyar Valley Irrigation Project, Idukki Dam and Malampuzha Dam, and Moolathara Dam were organized during 16-17 December 2019 to review the progress of ongoing DRIP rehabilitation works for the preparation of dam rehabilitation reports.

2.8. Visit of Chairman, CWC to UJVNL DRIP dams

Chairman, CWC visited Asan Barrage, Dakpathar and Virbhadra Barrage during 14-15 December, 2019 accompanied by officials of UJVNL to inspect the works carried out under DRIP which includes de-siltation of reservoir, protection works on upstream and downstream, repair to eroded portion of piers and barrage floor, repair of silt ejector channel, laying of concrete canvas and repair of Kulhal power house intake, Automation of barrage control and monitoring system, Overhauling and repair of HM system etc.

CPMU officials visited Moolathara Project to review the progress of the rehabilitation work during 14-15 December 2019
3.1. Training Programmes

A training programme on ‘Structural Dynamics’ by Dr. A.K. Dutta, former Professor from IIT Delhi was organized under DRIP during 21 to 25 October 2019 for the officials of Central Water Commission. 35 officials of CWC participated in the training program. This programme is a preparatory programme for the advanced training on ‘Dynamic Analysis Procedures for Dams’ scheduled to be conducted by Dr. A.K. Chopra, from the University of California, Berkeley, USA and Dr Lokke, Norwegian Geological Institute, Norway, during 06 to 08 November 2019.

Maulana Azad National Institute of Technology (MANIT) is one of the premier academic institution which is funded under DRIP for capacity building in dam safety areas. MANIT organized a two days training program on “Geotechnical Aspects related to DAM Safety” during 30 September to 01 October 2019. 21 engineers of various DRIP implementing agencies participated in the training programme.
Second batch of 10 engineers from Rajasthan Water Resources Department underwent training on the preparatory activities for DRIP Phase II and Phase III in New Delhi during 30 September to 11 October 2019. The participants were mainly exposed to various activities required to be completed for preparing the Project Screening Template (PST) of dams proposed to be included under DRIP Phase II and Phase III.

Training programme on Bentley Design and Analysis Software- Hammer Unlimited was organized during 14 to 16 October 2019. CWC officials participated in the training program. Bentley Design and Analysis Software has been procured under DRIP. HAMMER Unlimited is the industries transient analysis and water hammer modelling product. HAMMER simplifies the complex science of water hammer and transient analysis to efficiently identify, manage, and mitigate the risks associated with transients. The hands on training programme was organized by the software supplier as part of the purchase agreement.

Training programme on Dynamic Analysis Procedure for Dams conducted by Dr A.K. Chopra from University of California, Berkeley, USA and Dr. ArnkjellLokke from Norwegian Geological Institute, Norway was held during 06-08 November 2019. 35 Officers of CWC attended the training programme.
Two Hands-on training programmes on the implementation of DHARMA were held in Gandhi Nagar, Gujrat Water Resources Department Engineers during 13-15 November 2019 and 27-29 November 2019. A total of 56 officials were trained to enter dam related information into the online Dam Health and Rehabilitation Monitoring Application (DHARMA).

Induction Programme for SPMU Officials of Manipur & Meghalaya for DRIP II was organized in Delhi during 13-22 November 2019. The training was intended to equip the engineers from the Water Resources Departments of Manipur & Meghalaya PGCL to successfully complete the preparatory activities for implementing DRIP Phase II. Besides 6 engineers from North Eastern States, Officers of CWC also attended the training.

Maulana Azad National Institute of Technology, Bhopal and Motilal Nehru National Institute of Technology, Allahabad are among the prominent academic institutes supported under DRIP for capacity building in dam safety areas. These institutes organize training programmes for the benefit of engineers from DRIP Implementing Agencies. Two training programmes one during 21-22 November 2019 on the Applications of Modern Surveying Techniques (Remote Sensing, GIS and GPS) in the Water Resources Projects by MANIT, Bhopal and the other during 25-29 November 2019 on New Materials and Instrumentation for Rehabilitation of Dams by MNNIT, Allahabad were organized.
3.2. Empanelment of Experts for Dam Safety Review panels

6th meeting of DSRP Empanelment Committee was held under the chairmanship of Member (D&R) on November 25, 2019. 14 applications were reviewed and 3 of them were recommended for empanelment as experts for appointment as members of DSRPs. The updated list of DSRP experts empanelled is available at https://www.damsafety.in

3.3. Rapid Risk Assessment Framework

Risk assessment is a new activity in dam safety management in India and is a beginning to practice risk based decision system in dam safety management. In this endeavour, Central Water Commission in collaboration with World Bank is developing a framework for Rapid Risk Screening of dams. A dedicated team comprising of experts/officials, few dam owners along with World Bank experts deliberated on the development of Framework for Rapid Risk Screening of Indian dams during Oct 15-25, 2019.

3.4. Dam Safety Guidelines

To disseminate the best dam safety practices, dam safety guidelines are being prepared by pooling the expertise available across the world. Eleven Guidelines and Inspection Manuals have already been published under DRIP and the four draft guidelines viz. “Guidelines for Evaluating Seismic Hazards and Geological Conditions at Dams”, “Manual for Assessing the Hydraulic Safety of Dams”, “Guidelines for Classifying Hazard Potential at Dams” and “Guidelines for Selecting, Estimating and Accommodating Inflow Design Floods for Dams” are under finalisation.
Operation & Maintenance Manuals are being prepared and operationalized for all the dams covered under DRIP. About 124 draft O&M manuals have been prepared and 43 have been published. All the Implementing Agencies are actively engaged in finalizing the O&M Manuals for their dams to publish and operationalize them.

Dam Break Analysis completed for 201 DRIP dams and 147 Emergency Action Plans (EAPs) prepared by the concerned Implementing Agencies. 72 EAPs have been published and 27 stakeholder consultation meetings were organized to disseminate the EAPs and sensitise them with regard to their roles and responsibilities.

Even though dams are very safe structures, they hold enormous quantity of water and the potential consequences of any rare event of uncontrolled release of this water will be catastrophic. Emergency Action Plans (EAP) for dams help in improving the emergency preparedness of all the stakeholders namely the affected population, dam operation and maintenance personnel, organizations engaged in providing rescue and relief as well as those maintaining law and order. EAPs are being prepared for all the dams covered under DRIP. To disseminate the contents of the Emergency Action Plans developed for the dams among all the stakeholders, EAP Stakeholders Consultation Meetings are organized to increase the awareness about emergency preparedness and dam safety measures including the extent of inundation during different abnormal situations, communication protocols and the roles and responsibilities various stakeholders. EAP Stakeholders’ Consultation Meeting was organized on 05 November 2019 at Bhadra dam in Karnataka. EAPs pertaining to Kuttiyady Augmentation Project comprising 8 dams and Kakayam Dam were disseminated in the Districts of Kozhikode and Wayanad (Kerala State) on 20th and 21st November 2019.

Delegates representing the relief and rescue operations and representatives from National Disaster Management Authority, State Disaster Management Authority, India Meteorological Department, National Remote Sensing Centre, Geological Survey of India, Dam Owner's representatives and Districts' Authority participated in the workshop and also the representatives of the local bodies in the downstream of the dam.
3.7. Dam Health and Rehabilitation Monitoring Application (DHARMA)

A meeting to review the progress of the development of version 2.0 of DHARMA, an improved dynamic health module was held on 17 October 2019. Dam Health and Rehabilitation Monitoring Application (DHARMA) is a web based asset management tool developed and operationalised in 17 States. Version 2.0 is being developed with more improved features. Currently 17 states and 3 central agencies with 1353 users are authorized users of this tool. So far, Data of 1680 dams have been fed into DHARMA.

3.8. International Commission on Large Dams (ICOLD) 2020

International Commission on Large Dams (ICOLD) is organizing its 88th Annual Meeting and Symposium in New Delhi during 04 to 10 April 2020. The event, ICOLD 2020, will witness a large congregation of dam professionals, technologists, policy makers, industry representatives etc, from across the world to discuss issues relevant to dam fraternity for promoting sustainable development of dams and river basins. DRIP is collaborating with ICOLD and Indian National Committee for ICOLD (INCOLD) in organizing ICOLD 2020. More details about ICOLD 2020 available at the website: www.icold2020.org.

During ICOLD 2020, a Symposium on sustainable development of dams and river basins is being organized. The 8 themes of the symposium will be deliberated upon in 42 technical sessions organized in 7 parallel locations during 08 and 09 April 2020. There will be 6 technical Workshops which will be organized in 3 parallel locations on 07 and 10 April 2020.

A consultation meeting of the potential sponsors and exhibitors of ICOLD 2020 was organized in CPMU office, New Delhi on 30th October, 2019. The meeting was attended by Chairman, BBMB, President INCOLD, CPMU, CBIP and Industrial representatives, wherein industries partners were requested to extend support by way of participation, submission of papers, exhibitions and sponsorship. The Technical Committee and the Organizing Committee of ICOLD 2020 met on 29th November 2019 to deliberate on various aspects of organizing ICOLD 2020.
The DRIP Phase-II and Phase-III covers 18 States and 2 Central Agencies, with a rehabilitation provision of 687 dams at an estimated cost of Rs 10211 Cr. Preparatory activities of DRIP Phase-II and Phase-III includes constitution of State Project Management Unit (SPMU), Dam Safety Review Panel (DSRP), Completion of Design flood Review (DFR), DSRP Inspections & finalisation of Project Screening Templates (PST) of dams.

14 No. of Consultation and Appraisal meetings have been organized by CPMU and World Bank with officials of Water Resources Department of the states on preparatory activities to be completed before loan negotiation of DRIP Phase II and Phase III.

DSRPs have been constituted by 18 agencies and so far, 198 DSRP inspections have been carried out.

DFR, to check Hydrological Safety of dams, have been completed for 264 dams.

Training on Design flood Review has been carried out in 7 states (Manipur, Meghalaya, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh and Chhattisgarh) by CWC officials as a part of preparatory activities for new DRIP Phase II & Phase III.

Rajasthan and Manipur WRD have prepared PSTs with all technical and financial details for 8 and 2 project dams respectively and submitted to CPMU & World Bank for approval.

Two teams of experts from the World Bank visited various states proposed for DRIP Phase II and Phase III during 16 to 23 October 2019 to review the progress in the implementation of the preparatory activities and provide necessary support.

Discussions in progress with Kerala WRD on 16-10-2019 in Kerala

Discussions in progress with Karnataka WRD on 17-10-2019 in Bangalore
Consultation and Appraisal meeting with Goa WRD and Jharkhand officials was organized on 18 and 27 December 2019 respectively to review the progress of preparatory activities for DRIP Phase II and Phase III and to provide any guidance required in the matter. CWC officials along with representative of World Bank were part of delegation.

5. Upcoming Events

- Short Term Training Program for Implementing Agencies under DRIP at Department of Civil Engineering on 13-14 January, 2020.
- Flood Estimation, Routing & Management, Organized by Civil Engineering Department, MANIT, Bhopal on 16-17 January, 2020
- Meeting to review and finalise the Draft “Guidelines on Classifying Hazard Potential of Dams” and “Guidelines for Evaluating Seismic Hazards and Geological Conditions at dams” is scheduled to be held on 21 January, 2020 in CPMU office, R K Puram, New Delhi.
- National Conference on Policies and Strategies for Flood Management to be held in Kerala during 23 - 24 January, 2020
- Workshop on Disaster Management in the Context of Dam Distress Events organized by Department of Civil Engineering, National Institute of Technology, Calicut on 29-31 January 2020
- Training Programme on Reservoir Sedimentation and Management, Organized by Civil Engineering Department, MANIT Bhopal on 30-31 January, 2020
- Stakeholders consultation meeting for dissemination of EAP of four dams (Sarathi, Nahlesara, Kharadi & Moorum Nalla Dam) of Madhya Pradesh to be held in Balaghat District, Madhya Pradesh on 18 February, 2020.
6. DRIP in Print Media

24th TC Meeting field Visit (Kuttiyadi Irrigation Project)

7. DRIP in Social Media
Our next dissemination meetings are scheduled in Assam to be conducted by the DRIP team. To disseminate the new guidelines with all concerned, join us at: @DMRAdisom @DrSuvrananda @DRIPIndia @DRIPLokgram @DRIPLucknow @DRIPBangalore @DRIPMumbai @DRIPTYamuna @DRIPChennai @DRIPTelangana

New way of capacity building by @MaheshVermaR  one of the participating States in new PDRP. Start of 23.11.2018, with one may also follow @amitkumar2798 @DrSuvrananda @DRIPIndia @DRIPLucknow @DRIPBangalore @DRIPIndia @DRIPLucknow @DRIPLucknow

3 day advanced training program started on "comprehensive seismic review of concrete gravity dams" by Dr A K Chopra, KGC-B,HasMaxLength & Dr. Angel Soker, World Bank. @DRIPIndia @DrSuvrananda @DRIPIndia @DRIPLucknow @DRIPLucknow

http://www.damsafety.in

Congratulations @IRCIndia @CICIndia & @CMOAIndia for signing MOUs for new technical assistance for careers & skill development of #India’s dam, hope it will boost the confidence for much needed # structsupport for one of the largest rehabilitation item under #KOSB @PMOIndia @PMOIndia 

Second meeting for use of framework for RRM in India on 9th Oct. W Bank loan for DRIP Phase 7B. A very positive discussion & way forward @BWRIndia @CICIndia @CICIndia @CICIndia @CICIndia @CICIndia 

In a first in state, in-house consultancy for govt project

#DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia #DRIPIndia 

www.damsafety.in
**Vision**

To remain as a premier organisation with best technical and managerial expertise for providing advisory services on matters relating to dam safety.

**Mission**

To provide expert services to State Dam Safety Organisations, dam owners, dam operating agencies and others concerned for ensuring safe functioning of dams with a view to protect human life, property and the environment.

**Values**

- **Integrity**: Act with integrity and honesty in all our actions and practices.
- **Commitment**: Ensure good working conditions for employees and encourage professional excellence.
- **Transparency**: Ensure clear, accurate and complete information in communications with stakeholders and take all decisions openly based on reliable information.
- **Quality of service**: Provide state-of-the-art technical and managerial services within agreed time frame.
- **Striving towards excellence**: Promote continual improvement as an integral part of our working and strive towards excellence in all our endeavours.

**Quality Policy**

- We provide technical and managerial assistance to dam owners and State Dam Safety Organisations for proper surveillance, inspection, operation and maintenance of all dams and appurtenant works in India to ensure safe functioning of dams and protecting human life, property and the environment.
- We develop and nurture competent manpower and equip ourselves with state of the art technical infrastructure to provide expert services to all stakeholders.
- We continually improve our systems, processes and services to ensure satisfaction of our customers.

*Dam Rehabilitation and Improvement Project (DRIP)*

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