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- IITR Roorkee
- NITC Calicut
- CWR-AU Chennai
- MANIT Bhopal
- MNNIT Allahabad
- CET Thiruvananthapuram

## Capacity Building Activities under New DRIP

## DRIP in the Media
Preface

India owns and operates about 5334 existing large dams and about 400 large dams are under construction. Dam Safety Bill is under the process of enactment. Almost all dams are owned and operated by State Government Water Resources Department, State Electricity Boards, and very few by Central Public Sector Undertakings. Private institutions and consulting firms have limited knowledge of dam safety as their involvement in day to day challenges in operation and maintenance of these dams is almost negligible.

At the approval stage of DRIP, government of India desired that we should focus on capacity building of our apex academic institutions regarding dam safety with a long term perspective to ensure availability of adequately skilled manpower and professionals to deal with dam safety.

With the above objective in mind, some of the academic institutions were invited to be partners in reference to spatial spread of DRIP. The CWC signed the official MoUs with eight academic institutions. Our academic institutions are repositories of knowledge and their involvement with dam safety will help them to practically understand the dam safety concerns and challenges. Also, some of these institutions have excellent construction material testing facilities, hydraulic and numerical modelling centres etc., these regional facilities can be very useful for our dam owners and their day to day activities.

These partner institutions are closely associated with various activities of the scheme. The association and DRIP journey of these institutions etc. has been excellent so far in terms of real exposure to dam safety.

This partnership has culminated in the introduction of a regular post graduate degree course in Dam Engineering by IIT Roorkee, IIT Madras and IISC Bengaluru with the effect from the next academic session onwards. This course is very unique as no other University/Institutions is offer such a customised degree course. In addition to Indian students, dam owners and other professionals; this course may be very useful for South East Asian and African Countries.

This partnership with academic institutions, will be carried forward to new level through new DRIP Phase II and Phase III. I am glad that this special issue is dedicated to our Academic Partners. I wish all the DRIP Academic Partners and Implementing Agencies, for healthy mutual interaction and assistance in promoting dam safety.

(Dr. R.K. Gupta)
Member, D&R
Central Water Commission
Perspective

Considering the need for capacity building in the dam safety area, our academic institutions can play a very important role keeping in mind the resources and facilities available with these apex institutions. It is going to be a two way process for dam owners and academic institutions to learn from each other and set a model example for the world by reflecting this partnership through their actions.

According to the provisions given in the proposed Dam safety Bill as well as in DRIP, some of the important activities are supplementary and would be of immense use to our dam owners to prepare themselves for taking out various activities of Dam Safety Legislation.

Some of the activities in dam safety like Risk Assessment, Emergency Action Plans, Operation and Maintenance Manuals, Comprehensive Safety Evaluations etc. are highly technical and need technical support from competent domain experts. In coming time, government of India is in the process of switching from conventional approach to risk based decision system in dam safety.

There is growing demand for competent manpower for managing our dam assets to ensure their safety and operational effectiveness. Our academic partners can would be important players in capacity building of our dam owners and can provide need based support. I feel that DRIP has been successful in giving true exposure to our academic partners.

(Mr. Gulshan Raj)
Chief Engineer (CDSO),
Central Water Commission
Institutional strengthening is one of the important pillars of dam safety. We need skilled and trained manpower to operate the dams safely and efficiently. At the same time, competent professionals who can handle highly technical activities like advanced numerical modelling to study the unusual behavior of dams, dam break analysis and inundation mappings, operating rule curves, risk assessment, seismic safety evaluation, comprehensive safety evaluation, various kind of rehabilitation measures, investigations, instrumentation, surveillance and monitoring system, quality assurance etc.

In India, the major focus has been on construction of new dams. The required priority for the management of existing assets has not been given in terms of operation and maintenance budget, skill upgradation of staff, preparation of operational documents and timely updation, stakeholder consultation, institutional arrangement, roles and responsibilities etc.

The requirement of trained professionals to initiate risk screening of dams as well as preparation of various dam specific technical documents, is voluminous vis-à-vis size of India’s dam portfolio, current knowledge with dam owners and dam safety professionals etc. There is a huge gap in availability and demand. To address this existing gap, government of India initiated much required actions by bringing academic institutions on board as well as the introduction of post graduate degree level course, so that over a period of time, this gap can be minimised.
Expectations from Academic Institutions

Globally, academic institutions are working in synergy with various sectors and providing robust and latest solutions. Unfortunately, in India we lack such two way processes upto desired level due to various reasons. Globally, it is a known fact that India has best human resources which is one an essential resources to become a self-reliant nation. Government of India, State governments as well as dam owners expect that our apex institutions shall take a lead role to provide long term sustainable solutions to various dam safety challenges. These institutions shall render best solutions at a very economic cost, material testing facilities as well as other centre of excellences shall be accessible to our dam owners and any consultancy assignment by dam owner shall be given the required priority.

Also, these institutions can develop some Centre of Excellences (CoEs) which can work for dam safety. These CoEs shall be true knowledge hubs and provide complete solution to any referred challenge. Also, these Centres can explore the infusion of dynamism through international collaboration with leading global institutions in order to ensure any solution with wider acceptability.

This kind of arrangement would be very helpful in the ongoing initiative of ‘Atma Nirbhar Bharat’, which will result in advanced knowledge for some of our Southeast Asia and African countries.
DRIP Academic partners include IIT Madras, IIT Roorkee, IISc Bangalore, NIT Calicut, CET, CWR, MANIT Bhopal, and MNNIT Allahabad. These institutions are mainly focused to improve the infrastructure of various testing laboratories, modelling centers, as well as training facilities including the enhancement of capacity of faculty. The participating Departments in most of institutions is Civil Engineering except in IIT Roorkee, wherein department of Civil Engineering, Architecture and Planning, Earthquake Engineering, Alternate Hydro Centre, Hydrology and Remote Sensing participated.

The provision of Central Grant is Rs. 42.36 Cr. The list of instruments include Bathymetric Survey system, Ground Penetrating Radar (GPR), 3D Photogrammetric Controller, Dual Frequency DGPS etc. The softwares procured are MIKE Flood Geostudio Suite, ArcGIS latest & ENVI, TUFLOW etc.

Activities.....
Taken by Institutions

The IIT Madras, IIT Roorkee and IISC Bengaluru have almost completed their activities. In the list of NITs, NIT Calicut is leading other institutions.

All institutions have been part of all official meetings like Technical Committee, National Level Steering Committee, World Bank Implementation Support and Review Missions, Annual Dam Safety Conferences as well as part of some of the trainings conducted by Overseas institutions in their campuses. Also faculties from all these institutions were part of the Exposure Visit to Japan, organised by World Bank in year 2016. The Indian delegation was hosted by Japan Water Agency, Japan. In addition to exposure to various advanced facilities, exposure visit to few dams to gauge the ground-level advancements in dam maintenance and operation, instrumentation and monitoring, surveillance and automation, sediment management etc.
Glimpse of Association in Overseas Activities........

As a part of capacity building, a five days Exposure Visit was organized to Japan by the World Bank during October 3-7, 2016 for the faculty members of nine academic institutions and Central Water Commission (CWC) to make them familiar in various aspects of advancement in Dam Safety and related to seismic hazards associated with dams. The visit was aimed to have discussions with senior officials and experts of Japan Water Agency (JWA) along with site visits to Takijawa dam and Urayama dam Located in Arakawa river basin near Chichibu city.

Entura, Australia organised two weeks training programs on “Dam Safety, Portfolio Management and Risk Assessment” in IISC Bengaluru, IIT Chennai and IIT Roorkee for officials of partner agencies as well as faculty and research students of these institutions.

Also, a one-week training program on “Geomembrane Sealing Systems for Dams” was organised by M/s CARPI, Switzerland in IIT Roorkee in the month of August 2018 for the officials of partner agencies, faculty as well as research scholars of this institutions.

In addition to the above, NIT Calicut, CET Trivandrum was associated in International Dam Safety Conference held in Trivandrum in January 2018. IIT Bhubaneswar and KIIT University, Bhubaneswar were a part of International Dam Safety Conference organised in February 2019 in Bhubaneshwar, Odisha.
Various Training Programmes organised by Academic Partners

55 Training programs were conducted by academic institutions in various domains of dam safety, benefitting about 1100 State Officials from DRIP Implementing Agencies.

Number of Trainings

<table>
<thead>
<tr>
<th>Training Programme</th>
<th>Details</th>
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<tr>
<td>Design Flood Review</td>
<td>Anna IM Chennai, 12-14 Sept. 2019</td>
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<tr>
<td>Design Flood Estimation</td>
<td>IISc. Bengaluru, 14-18 August 2017</td>
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<td>Flood Routing</td>
<td>Karnataka Engineers Academy, Bengaluru, 27-29 April 2016</td>
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<tr>
<td>Dam Break Analysis and Emergency preparedness</td>
<td>(62) Instrumentation &amp; Dam health monitoring</td>
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<td>Reservoir Sedimentation &amp; Management</td>
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<td>Hydro Mechanical Aspects</td>
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<tr>
<td>Design Flood Estimation</td>
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<td>Seismic Design &amp; Safety Evaluation</td>
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</tr>
<tr>
<td>Seepage Analysis &amp; Control</td>
<td>(105) Risk assessment &amp; portfolio management</td>
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<tr>
<td>Geotechnical Aspects</td>
<td>(99) Geotechnical Aspects</td>
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Training Programme on Design Flood Estimation, Flood Routing, Karnataka Engineers Academy, Bengaluru, 27-29 April 2016

Training Programme on Design Flood Estimation, IISc. Bengaluru, 14-18 August 2017

Training program on Design Flood Review, Anna IM Chennai, 12-14 Sept. 2019
Indian Institute of Technology Madras

"Since inception of the proposal on capacity building, nearly 20 faculty members from three different departments of IIT Madras have been taking part actively. The interaction with CWC and the implementing agencies have enabled the faculty members to realize the importance of dam safety and related issues. The continuous interaction with engineers from the state implementing agencies and site visits to different dams have provided a good opportunity to take up challenging practical problems related to dam safety."

State-of-the-art equipments have been procured which are required for characterization of different materials commonly used for dam construction and rehabilitation, software for advanced modeling, seepage and stability analysis of earth and masonry dams. The laboratory and computational facilities developed under this project have been used in conducting training programs on dam related topics and for taking up research works related to these areas.

Consultancy assignments include Assessment of corrosion of steel gates at Krishnagiri dam, Assessment of erosion and subsidence of dam slopes at Willingdon Dam, Seepage through the dam at the toe of downstream side of slope at Highwavys dam, Settlement and seepage through the dam section of Kadamparai dam, Seepage analysis and condition assessment of masonry section at Sholayar dam.

IITM signed MoU on 27th January 2017 with the provision of financial assistance of Rs. 592 lakhs for capacity building of Department of Civil Engineering in dam safety areas such as analysis of dams, foundations, retrofitting, flood forecasting, dam break analysis & emergency action plan, instrumentation etc. In addition to it, five training programs were to be organised in dam safety areas for partner agencies.

Training programs and course material were developed by keeping needs of the practicing engineers in mind. All five training programs have been organized which include Flood Management and Routing, Modern Materials for Dam Repair and Rehabilitation, Stability and Seepage Analyses of Earth and Rockfill Dams and Dam Break Analysis & Emergency Action Plan.

IIT Madras was official partner in first Annual Dam Safety Conference organised during March 24-25, 2015.
IISc provides consultancy services to dam owners to address their dam safety concerns. One of the consulting services provided under DRIP includes Integrated Consulting Services.

IISc signed the Memorandum of Understanding (MoU) for dam safety institutional strengthening on 27 January 2017 for the financial assistance of Rs 7.47 crores, primarily towards procurement of equipment and software and to conduct five training programs in dam safety areas for capacity building of DRIP IAs.

All the five committed training programs as per the MoU for the engineers from the DRIP implementing agencies were successfully conducted by the IISc team. These programs were on topics like Investigations and Engineering Tests for Dams, Design Flood Estimation and Reservoir Operations, Seepage Analysis and Control in Earth Dams, Materials for Dams and Seismic Studies for Dam.

Resistivity Imaging Cables for resistivity meter for geophysical survey for subsurface mapping

Data acquisition from X-ray micro-computed tomography and 3D visualization of internal structure of sample with destructive sectioning

All the five committed training programs as per the MoU for the engineers from the DRIP implementing agencies were successfully conducted by the IISc team. These programs were on topics like investigations and Engineering Tests for Dams, Design Flood Estimation and Reservoir Operations, Seepage Analysis and Control in Earth Dams, Materials for Dams and Seismic Studies for Dam.

IISc Bangalore has procured Rock Triaxial Equipment, Resistivity Imaging Cable for 2D and 3D survey, A workstation to process 3D particle size and morphology data, PCP-200-S pressure control panel and Cyclic simple shear equipment, Seismometer, Cross and Down hole Seismic Borehole System, Micromate – Blast monitoring equipment, Automatic Triaxial with P & S wave measurement bender element system, 2-D Resistivity Imaging Cables for ABEM Terrameter LS and Analysis softwares and SPT-HEMA apparatus. Some design software were also procured like Geostudio, Plaxis 2D, MIKE flood, Flow3D software, Upgradation of ArcGIS Software and an additional Master Lab kit and FEAST (A finite element package) and ATENA (A concrete structure analysis package) software along with a workstation.

Training program on "Design Flood Estimation" during August 16-18, 2019 organised by IISc Bangalore

Subsurface Investigation to suggest solution for Canal Failure provided to M/s I Visvesvaraya Jala Nigam Ltd - VJNL, North Karnataka.
29 September 2017 for an amount of Rs.10.92 crore for dam safety institutional strengthening of the Department of Hydrology; Department of Civil Engineering; Earthquake Engineering Department; Hydro and Renewable Energy Department; and Architecture and Planning Department and for conducting 23 training programmes for the officers of implementing agencies.

IIT Roorkee has procured equipment under DRIP which includes Radar Type Water Level and velocity recorders, Radar gun, and Acoustic Doppler Current Profiler (ADCP), network of rain gauges, Upgradation of the Hydrological Information Systems Laboratory (HIS Lab) and seismological Observatory, Drone, High end computing and immersive 3D facility and multistation equipment.

IIT Roorkee signed the Memorandum of Understanding with CWC for dam safety institutional capacity building on 29 September 2017 for an amount of Rs.10.92 crore for dam safety institutional strengthening of the Department of Hydrology; Department of Civil Engineering; Earthquake Engineering Department; Hydro and Renewable Energy Department; and Architecture and Planning Department and for conducting 23 training programmes for the officers of implementing agencies.

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IIT Roorkee assists dam fraternity through site-specific investigations and consulting services to address their dam safety concerns. Prominent among them included Development of an operational Inflow forecasting system for the Tehri dam, Design Flood and spillway Capacity Determination for the Kalpasar Project, Dynamic stress Analysis studies on Arun-3 HEP, Nepal, Dynamic Analysis for Concrete Gravity Dam of Bajoli HEP, Dynamic Analysis for Concrete Gravity Dam of Dhaulasidh HEP Dynamic analysis for Rihand Concrete Gravity Dam at Pipri and Review of design of a constructed portion of the gated barrage across river Tawi and design of balance works including gates.

IIT Roorkee has organised 23 training programmes on various aspects of Dam Safety committed as per MoU.

Motilal Nehru National Institute of Technology, Allahabad

MNNIT faculty members attended several Technical Committee meetings and World Bank Review Missions and associated dam visits organized under DRIP. It offered an opportunity to interact with World Bank officials, CWC officials, and field engineers from the DRIP Implementing Agencies. The institute–industry interaction provided an opportunity to practically experience the ground situation at the dam sites and the dam safety concerns faced by the dam fraternity. Visiting the dams in Japan organized under DRIP in collaboration with Japan Water Agency provided an excellent opportunity for interactions & deliberations with senior officials of Japan Water Agency and exchange of knowledge and experience in dam safety management practices followed in Japan, especially the issues relating to seismic events occurring in Japan.

MNNIT had a marvelous and enlightening association and experience under Dam Rehabilitation and Improvement Project (DRIP). The institute received an overwhelming response from CWC, New Delhi officials and aspires to continue and strengthen this association with DRIP.

MNNIT signed the Memorandum of Understanding with CWC on 29 September 2017. Department of Civil Engineering, MNNIT, intended for dam safety institutional capacity building under DRIP at a total cost of Rs. 461 lakhs/- which included Rs. 25.83 lakhs for infrastructure facilities; Rs. 365.67 lakhs for instrumentation - lab equipment, field equipment, and software (with structural, geotechnical and hydrological components); Rs. 10.00 lakhs for conducting workshop; Rs. 29.50 lakhs for conducting training programmes and preparation of training modules; and Rs. 30.00 lakhs for training of faculty members in new areas for developing expertise in dam safety (in India & abroad).

Training programs committed as per the MoU have been successfully conducted by MNNIT for the engineers from the DRIP implementing agencies on the topics of Hydrological, Geotechnical and Geological Investigations for Dams, Water Quality Assessment, Reservoir Sedimentation & Risk Remedial Measures, New Materials and Instruments for Rehabilitation of Dams and Risk Uncertainty & Management Information System.

NIT Calicut signed the Memorandum of Understanding with CWC on 24th August 2017 for a financial assistance of Rs 250 Lakhs. The overall objective of this exercise was capacity building of academic institutions in dam safety related areas and to conduct five training programs in dam safety areas for capacity building of DRIP IAs.

NIT Calicut has procured MIKE FLOOD, MIKE HYDRO RIVER Enterprise with Dam Break, Sediment Transport etc. modules, Up gradation of WMS, ENVI, GeoStudio, and ATENA. Equipments procured include Ultrasonic Pulse Velocity Tomograph (UPVT), Ground Penetrating Radar, Impact Echo UPV Instrument, and Cross hole seismic test facility with accessories.

All the five committed training programs as per the MoU for the engineers from the DRIP implementing agencies were successfully conducted by the NITC team. These programs were on the following topics like Geotechnical Aspects of Dam Safety, Flood Peak Estimation and Flood Routing, Analysis & Design Concepts Related to Dams and Appurtenant Structures, Real Time Flood Forecasting and Risk Analysis and Disaster Management in the Context of Dam Distress Event.

Training program on "Real time flood forecasting and risk analysis" during July 10-12, 2019, organised by NIT Calicut

CET conducted two training programmes namely (i) Reservoir operation (ii) Design concepts of dams and hydraulic structures for the engineers of DRIP implementing agencies. The training programmes were attended by engineers from IDRB, Irrigation department, and KSEBL from the Kerala state and engineers from Uttar Pradesh, Andhra Pradesh, and Tamil Nadu.

CET has procured equipment and software which include MIKE FLOOD and MIKE RIVER DAMBREAK MODULE, upgradation of the single frequency DGPS receiver to Dual frequency DGPS receiver.

CET Trivendrum signed MoU on 15 January 2019 with Rs. 80 lakhs for the procurement of various equipments, software and training of CET faculties, personnel from DRIP implementing agencies and towards meeting operating cost.

CET was official partner in International Dam Safety Conference organised during January 23-24, 2018

The faculty from the Department of Civil Engineering participated in the Technical Committee meetings and associated visits to DRIP dams, training programmes in India, field visit to dams in Japan, International Dam Safety Conferences during 2018 and 2019. The interactions and practical exposure were very helpful to the faculty members in enhancing their knowledge in the areas of dam safety.

The College of Engineering Trivandrum and the Department of Civil Engineering in specific are actively associated with the dam safety activities of the user agencies in the Kerala state and DRIP. CET is really interested in continuing the association in the coming years.
CWR signed the Memorandum of Understanding with CWC on 29 March 2018 wherein Rs. 410.9 lakhs were sanctioned for the procurement of laboratory equipment, field equipment, software, and hardware; construction of instrumentation room, conference room and simulation lab, training room (infrastructure) and training of CWR faculties, training of personnel from DRIP implementing agencies and towards meeting operating cost.

CWR organized two training programmes on ‘Model Study for Dam Structures’ during 24 to 26 July 2019 and on ‘Watershed Modeling with Catchment Treatment’ during 19 to 21 August 2019 for personnel from DRIP implementing agencies.

MANIT signed the Memorandum of Understanding with CWC on 7 December 2018 for assisting Department of Civil Engineering, MANIT in dam safety capacity building and an amount of Rs. 101.6 lakhs were sanctioned for the procurement of various equipment, software and training of personnel from DRIP implementing agencies and towards meeting operating cost. As per MoU, MANIT Bhopal agreed to develop required facilities to provide the consultancy services to the state level DRIP Implementing Agencies (IAs) and conduct training programmes in the areas of Design flood studies, Flood routing studies, Dam break analysis, Reservoir sedimentation studies, Geotechnical, geophysical and geological investigations, Structural & Geotechnical Designs and Structural safety assessments.

MANIT has procured Mike Flood software and GeoStudio software under DRIP.

All the five committed training programs as per the MoU for the engineers from the DRIP implementing agencies were successfully conducted by the MANIT team in the areas of Geotechnical Aspects Related to Dam Safety, Applications of Modern Surveying Techniques (Remote Sensing, GIS and GPS) in the Water Resources Projects, Flood Estimation, Routing and Management and Reservoir Sedimentation and Management.
Carrying Forward the Capacity Building Momentum of DRIP I to DRIP Phase II & Phase III

**Initiation of Post Graduate Degree Course in Dam Engineering by IIT Roorkee, IIT Madras and IISc Bangalore**

Recognizing the need for a dam safety cadre and to expand the base of dam safety institutional strengthening country wide, Ministry of Jal Shakti through CWC collaborated with IIT Roorkee, IIT Madras and IISc Bengaluru for introducing regular post graduate degree level (Master Course) course in Dam Engineering/Dam Safety from the next academic session onwards. These three institutions agreed in-principle and CWC shared the proposed course content with these institutions for onward action.

**Establishment of a Centre of Excellence in Dam Engineering**

IITR, IITM and IISc expressed interest in establishing the Center of Excellence as the world's top Center. It was agreed that the Center of Excellence should not be restricted only to the safety and rehabilitation aspects of dams as it infers to a narrow connotation. However, key focus will be given to dam safety and rehabilitation aspects. It was agreed that activities of the Centre of Excellence should pave way for positioning India as a strategic leader in the field of dam safety.
DRIP Academic Partners in Media
Central Dam Safety Organization  
Central Water Commission  

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 Organizations 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.