

Registration of Participants

Dam owners, dam planners, dam operators and dam safety professionals, along with contractors, suppliers and consultants involved in dam design, construction, and instrumentation, are invited to participate in the Third National Dam Safety Conference. They may register online by visiting our website: www.damsafety.in.

There is no participation fee for attending the Conference. However, participants are required to make their own arrangements for their lodging, transportation and other incidentals. The organizers will be able to assist in finding suitable accommodation on specific requests. Efforts are being made to provide limited accommodation to official delegates of DRIP Implementing Agencies and members of National Committee on Dam Safety. Participation in the Conference is by invitation. Owing to capacity limitations, some registrations might not be accepted; therefore, it is advised to await confirmation of acceptance before making travel plans and other arrangements.



Ganga Aarti, Haridwar

Technical Papers

Papers received for the technical sessions will be reviewed by a panel of experts for the quality of contents and their relevance to the conference theme. From the accepted papers authors of select papers will be asked to submit presentation slides. After reviewing presentation slides for their suitability, papers will be selected for oral presentation.

Softcopy of all the papers relevant and suitable to the themes of the Conference along with printed copies of their abstracts are proposed to be distributed to the participants during the Conference. In addition, select technical papers, after necessary editing, will be published as a compendium after the Conference. CDSO (CWC) reserves the right to publish the technical papers/compendium in its websites or in any other media; therefore, consent in this regard, shall be given by the Principal Author while uploading the paper.

Timelines for submission of papers:

- Last date for submission of Full Paper: 30 November 2016;
- Communication of acceptance of full papers: 15 December 2016
- Submission of slides (limited to 15-20) for oral presentation: 31 December 2016
- Communication of the papers shortlisted for oral presentation: 15 January 2017.

Exposition

Space will be made available at the venue of the Conference for display/exposition of products, charts, banners, photographs showcasing the latest developments, and technologies related to dam safety. Select exhibitors may also be permitted to make a brief presentation of their products/technologies during the Conference. Those who would like to participate in the exposition should make their interest known by 31 October 2016 at the latest, indicating the nature of their display and the space required. Requests may be made through our website or by email to the Organizing Secretary. Depending on the availability, the space will be assigned and the details will be confirmed.

Conference Programme

| 18 February 2017 | | 19 February 2017 | |
|------------------|-----------------------|------------------|-----------------------|
| Date & Time | Programme Details | Date & Time | Programme Details |
| 0900-0930 h | Registration | 0900-1030 h | Technical Session - 4 |
| 0930-1030 h | Inauguration | 1030-1100 h | Tea |
| 1030-1100 h | Tea | 1100-1230 h | Technical Session - 5 |
| 1100-1230 h | Technical Session - 1 | 1230-1330 h | Lunch |
| 1230-1330 h | Lunch | 1330-1500 h | Technical Session - 6 |
| 1330-1500 h | Technical Session - 2 | 1500-1600 h | Open Session |
| 1500-1530 h | Tea | 1600-1630 h | Valedictory Session |
| 1530-1700 h | Technical Session - 3 | 1630-1700 h | Tea |
| 1700-1830 h | Industry Session | | |

Because registration of the participants for the National Conference will begin at 09:00 on 18 February, for the benefit of the outstation participants arriving at Roorkee on the previous day, a sightseeing tour is planned on the afternoon of 17 February.

Contact Us

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Third National Dam Safety Conference
18-19 February 2017
IIT Roorkee, Uttarakhand

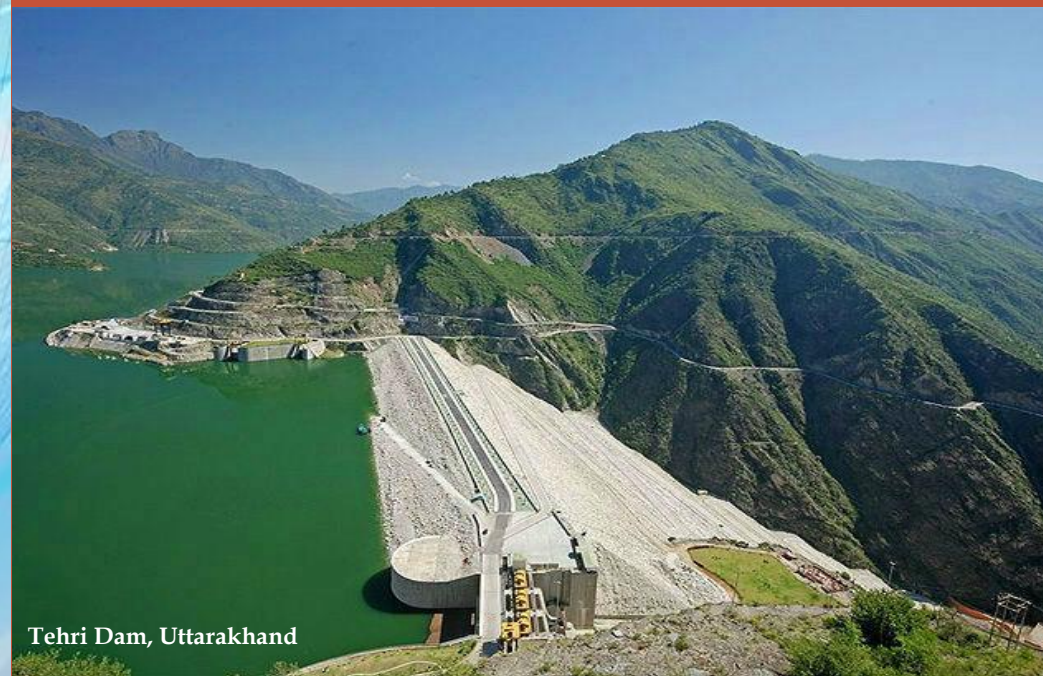
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Safe Dams for Safe Future

Third National Dam Safety Conference

18-19 February, 2017

IIT, Roorkee, India



Tehri Dam, Uttarakhand

Organised by:



UJVNL Limited



Central Water Commission



IIT Roorkee

About the Conference

There are about 4900 large dams in India and more than 300 are under construction; safety of these dams is of paramount importance. The Central Water Commission (CWC) as part of its institutional capacity building initiative is taking the lead in organizing National Dam Safety Conferences in different states as yearly events. These conferences promote the concepts, techniques, instruments, and materials for design and construction of new dams, as well as for monitoring, operation, maintenance and rehabilitation of existing dams. They provide an opportunity for dam professionals and organizations to share their knowledge and experience as well as their technologies, innovations, and dam safety initiatives.

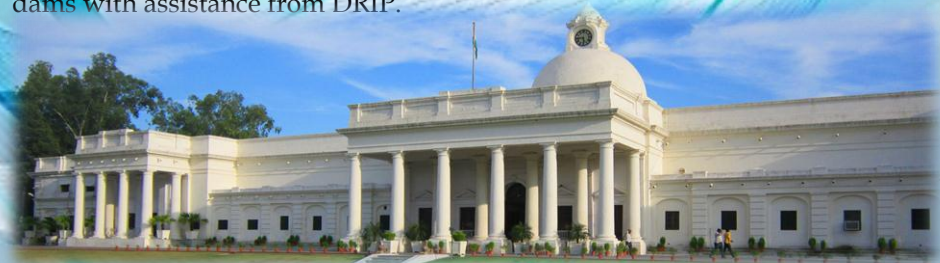
CWC joined hands with Tamil Nadu Water Resources Department and Indian Institute of Technology, Madras for the First National Dam Safety Conference, which was held in Chennai in March 2015. The Second National Dam Safety Conference took place in the garden city, Bengaluru in January 2016, where CWC collaborated with the Karnataka Water Resources Department and the Indian Institute of Science. Both conferences received a great amount of interest from dam professionals, as evidenced by the increasing attendance, more technical papers, and the growing participation of industry for presenting their products, services, and technologies at the exposition.

The Third National Dam Safety Conference will be held on 18 and 19 February 2017 in Roorkee, in partnership with the UJVN Limited (UJVNL) and the Indian Institute of Technology, Roorkee (IITR).

About the Organizers

The Central Dam Safety Organisation (CDSO) of CWC is coordinating implementation of the Dam Rehabilitation and Improvement Project (DRIP), with financial assistance from the World Bank. DRIP assists in the rehabilitation of about 250 large dams in seven states. The project also promotes new technologies and builds institutional capacity for dam safety at the Central & State levels, and also at premier academic and research institutes of the country.

Uttarakhand has a very high potential for development of hydropower projects with India's two major rivers, namely Ganga and Yamuna, starting their journey from the State, and existence of a large network of rivers and canals. UJVNL is a wholly owned Corporation of the Government of Uttarakhand, managing hydropower stations and developing and promoting new projects. UJVNL joined DRIP in 2015 and is pursuing rehabilitation of five of its large dams with assistance from DRIP.



Panoramic view of IIT Roorkee Main Building

IITR is among the foremost institutes of national importance in higher technological education and in basic and applied research. The institute ranks amongst the best technological universities in the world and has contributed to all sectors of technological development. The 170-year-old institute offers bachelor's degree courses in 10 disciplines of engineering and architecture; postgraduate's degree in 55 disciplines of engineering, applied science, architecture and planning; and doctoral work in all departments and research centers.

Conference Themes

Six Technical Sessions (TS), one Industry Session and an Open Session are planned as under:

TS 1: Health of ageing dams and corrective measures

The theme will focus on lessons learnt from assessment of ageing dams and rehabilitation of distressed dams and cover:

- Ageing scenarios in different types of dams and strategies adopted for their rehabilitation;
- Real-time health monitoring and warning systems; and
- Case studies of major dam distress and the lessons learnt from their rehabilitation programs.

TS 2: Flood management at existing dams

The theme will focus on flood management at dams through structural and nonstructural measures and cover:

- Augmentation of spillway capacity (both structural and non-structural) to handle revised design flood in existing dams;
- Emerging challenges in dam safety due to climate changes;
- State-of-the-art instrumentation and inflow forecasting for reservoir operations in existing dams; and
- Case studies related to design floods and spillway designs.



TS 3: Planning, design, construction and rehabilitation of dams – novel technologies

The theme will focus on latest developments in technologies, materials and methods for design, construction and rehabilitation of dams and cover:

- Planning and design considerations for hydraulic, geotechnical, structural and seismic safety of dams;
- New materials and technologies for dam construction and rehabilitation; and
- Case studies highlighting challenges faced in alleviating design inadequacies in existing dams.

TS 4: Innovations in assessment based maintenance of dams

The theme will focus on instrumentation and methods for monitoring various operational and health parameters of dams to determine the maintenance requirements and cover:

- Challenges in installing instruments in existing dams for perpetual monitoring of dam health and integrating instrumentation data to implement assessment based maintenance; and
- Case studies projecting the experiences in assessment based maintenance of dams both within and outside the country.

TS 5: Institutional strengthening for sustainable dam safety initiatives

The theme will focus on institutional capacity building measures to support dam safety and cover:

- Training for competence building;
- Promoting implementation of quality management systems and risk assessment;
- Supervisory controls exercised by different levels; and
- Case studies projecting the challenges faced in the field for implementing sound quality assurance programme.

TS 6: Emergency action plan for dams towards disaster resilience

The theme will focus on creating greater awareness on dam safety issues to develop disaster resilience among the multiple agencies involved with disaster management at state level and cover:

- Challenges of co-ordinations in handling dam related emergencies with multiple agencies;
- Dam break analysis and routing of excess water releases from dams and inundation mapping;
- Case studies related to sound emergency action plans (EAPs) for dams.

Industry Session: Integration of new technologies for dam safety

With the opening of markets, many international players are bringing in new technologies, materials and instrumentation for design, construction, operation, maintenance and rehabilitation of dams. This session will provide an opportunity to the industry to project latest developments in the field and cover:

- State-of-the-art technologies, materials, instrumentation and methods available in the world at large and their applicability for dam design, construction and rehabilitation in India and their advantages; and
- Implementation case studies both in national & international context.

Open Session: Country-wide assessment of dam health scenario and dam safety institutional capacity

Dam Safety Review Panels (DSRP) have been constituted by various state governments to inspect their distressed dams. Nearly 1000 dams have been inspected by DSRPs across the country. The theme will focus on sharing their experiences and perspectives to address dam safety issues in the country.

