

Webinar on
**Design of Spillways and
Energy Dissipators**

21-22 January 2021

BRIEF PROFILE OF SPEAKERS



Mr. H.L. Arora, Former Director (Technical), THDC India Ltd., has four decades of diverse experience of Water Resources and Power Sector (Hydro, Thermal & Wind) in fields of Project Execution, Dam Safety, Reservoir Management, Quality Assurance, Disaster Management, O&M of Power Plants, Policies Making, Regulatory Frameworks and its Formulations. He is a Civil Engineering (Hons) Graduate of 1981 Batch from Thapar Institute of Engineering and Technology, Patiala (Punjab). He is associated with International agencies such as Hydro Project Institute (HPI) Moscow and United States Bureau of Reclamation (USBR), an premier R&D Institution for continual improvement and professional excellence of organization. Presently, he is empaneled as Dam Safety and Construction Supervision Expert by Central Water Commission (CWC) and Independent Director (DPE Databank).



Dr I Satya Narayana Raju served in Irrigation Department of Government of Andhra Pradesh from 1976 to 2011 in various capacities including the position of state level Chief Engineer for over 6-years heading Central Design Organisation related to design approvals of Multipurpose Water Resource Dams and Canal network system-Hydraulic structures including Hydro-Mechanical (Gates). He also served as Director AP Engineering Research Laboratories (APERL), for three years associated with materials testing, in-situ Geological tests of major project foundation-sub structures of all Engineering departments in the state. He was associated with the hydrographic surveys of various Water Resource Reservoirs and Dam Spillway Model studies of state of Andhra Pradesh and other states as Director, APERL. Presently Dr Raju is Technical Consultant to NABARD- RIDF projects of Andhra Pradesh and Telangana and Member, Technical Advisory Council of Water Resources Department of Andhra Pradesh.

Organised by :



**Central Board of Irrigation & Power
New Delhi**

BACKGROUND

Central Board of Irrigation & Power (CBIP) a premier Institution, setup by Government of India in 1927 is serving the nation in the disciplines of Water Resources, Power, Renewable Energy & Allied Sectors for more than 93 years.

It is an exchange and knowledge bank for dissemination of technical knowledge & professional experience to help Engineers/ Professionals to update their knowledge and gain practical know-how.

CBIP'S MAIN OBJECTIVES ARE :

- To disseminate technical knowledge through various modes, e.g., publication of technical documents, organizing conferences /workshops
- To provide specialized training to the professionals in the Water Resources, Power, Renewable Energy and allied Sectors.

In the COVID-19 situation, skill enhancement and training of professional has emerged as a very important aspect and a challenge. Online Webinars are our attempt to continue giving training experience to participants.

Dissipation of kinetic energy generated at the toe of spillway is essential for bringing the flow velocity of the river back to normal in shortest possible distance. This is necessary to protect the river bed, banks downstream from erosion and to protect important structures from undermining. Large amount of sediments entering the reservoir is a serious problem in Himalayan region which reduces the capacity of the reservoir and damages the hydropower plants. Hence, orifice spillways are designed to pass the flood as well as flush the sediment. The energy dissipators are designed giving special consideration to sediment flushed through the spillway.

The objective of Webinar is to discuss the various energy dissipation arrangements, diagnosis, selection of suitable repair materials and appropriate repair methodology.

The following will be the topics for discussion during the Webinar:

- Overview of Energy Dissipation Arrangements in Dams
- Design Flood for Spillways
- Principles of Hydraulic Modeling for Spillways
- New Materials for Repair of Energy Dissipation Arrangements

The Unique feature of this webinar will be high safety of participants in COVID 19 situation as no travel is involved in addition to huge financial saving to concern departments.

Following is the proposed schedule of the Webinar:

Thursday, 21st January 2021

- 1430 – 1530 Hrs.:Lecture-I
- 1530 – 1630 Hrs.:Lecture-II
- 1630 – 1700 Hrs.:Discussions

Friday, 22nd January 2021

- 1430 – 1530 Hrs.:Lecture-I
- 1530 – 1630 Hrs.:Lecture-II
- 1630 – 1700 Hrs.:Discussions

Note :

- Audio/video recording is prohibited.
- CBIP will not be responsible for any quality and interruption of audio/video due to poor internet connectivity at the customer end.

- Webinar link will be provided to the participants only. Forwarding the link to other person is strictly prohibited
- The participants will be required to adhere the time schedule fixed for the webinar.
- The participants are requested to be in formal dress.

WHO SHOULD ATTEND?

The Webinar is open to State Irrigation, Water Resources and Public Works Department besides Research and Academic Institutions in Water Sector.

Category		Registration fee excluding GST
Individuals (per participant)	Members of CBIP	Rs. 2,000/-
	Non-members	Rs. 2,500/-
Institutional	Upto 10 participants from Member Organizations (CBIP)	Rs. 18,000/-
	Upto 10 participants from Non-Member Organizations	Rs. 20,000/-
	Upto 15 participants from Member Organizations (CBIP)	Rs. 22,000/-
	Upto 15 participants from Non-Member Organizations	Rs. 25,000/-

- 18% GST will be extra. GST No. 07AAAJC0237F1ZU

The program is limited to 100 participants, which will be on First cum First serve basis.

TO REGISTER

The perspective participants, desirous of attending the workshop may register themselves by sending the following details to CBIP along with necessary payments:

Title of Webinar _____

Name: _____

Designation: _____

Organization: _____

Mailing address: _____

Phone / Fax/E-mail: _____

Note : After registration, the participants will be provided the link, one day prior to the session, to participate in the Technical session

Payments of registration fee should be made by cheque at par/ Demand Draft drawn in favour of "Central Board of Irrigation and Power", payable at New Delhi or by transfer the amount to HDFC Bank, Address : 209-214, Kailash Building, 26 Kasturba Gandhi, Marg, New Delhi 110001, Saving Bank Account No. : 00031110004411; Swift Code: HDFCINBBDEL; IFSC: HDFC 0000003 MICR Code: 110240001

ADDRESS FOR CORRESPONDENCE

Dr. G.P. Patel, Director (WR), CBIP

Nodal Officer : Mr. Uday Chander, Chief Manager

M : 9899653677 E-mail : uday@cbip.org

Central Board of Irrigation & Power

Malcha Marg, Chanakyapuri, New Delhi - 110021

Phone: 011 26115984/26116567;

Fax: 011 2611 6347; E-mail: cbip@cbip.org