



**Engineering Staff College of India**  
Autonomous Organ of The Institution of Engineers (India)  
*Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India*

**WATER RESOURCES DEVELOPMENT DIVISION**



Continuing Professional Development Programme on  
**Dam Safety Guidelines – Monitoring and Protection  
Measures for Safety of Dams**  
24 – 28 September, 2018



(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

**Centre for Promotion of Professional Excellence**

## **INTRODUCTION**

Enormous amounts have been spent on multi-purpose river valley projects throughout the length and breadth of the country since independence. The dams built in the country, by and large, have been performing well; but there were also a few failures. Because of this, surveillance, maintenance and repair of dams and other major hydraulic structures throughout the country have been a matter of increasing concern. The safety of these vulnerable structures is a prime concern not only from the point of benefits that are accruing from them, but also from the point of enormous destruction to life and property such failures lead to. These structures, many of them constructed fifty to sixty years ago, have borne the brunt of many maximum peak forces but some have started showing signs of distress. Evidently all these structures are to be evaluated and upgraded in the light of aging and present day technical knowledge, so that they continue to serve their purposes. Conducting tests for understanding the problems / distress in these structures is a technique by itself and the country cannot afford to remain neglecting in this regard.

According to the National Water Policy, “There should be proper Organisational arrangements at the national and state levels for ensuring the safety of storage dams and other water related structures consisting of specialists in investigation, design, construction, hydrology, geology, etc. A dam safety legislation is required to ensure proper inspection, maintenance and surveillance of existing dams and also for safety of new dams. The Guidelines on the subject should be periodically updated and reformulated. There should be a system of continuous surveillance and regular visits by experts”.

## **OBJECTIVE**

The proposed training programme aims at updating the knowledge and upgrading the skills of the serving engineers in ensuring the Safety of Storage and other water related structures in a systematic manner keeping in view the guidelines set forth in the National Water Policy.

## **COVERAGE**

- Overview of Dam Safety guidelines
- National Water Policy – Dam Safety Bill
- Hydrological Review of Dam Safety : Computation of PMF
- Structural Review of Dam Safety (Masonry / Concrete Dams)
- Structural Review of Earth and Rockfill dams
- Seismic evaluation of dam location for geological safety
- Dam safety Inspections and Practices
- Monitoring and Protection Measures for Dam Safety
- Instrumentation for Dams
- Field visit

## **METHODOLOGY**

Methodology includes class room lectures with audio visuals, interactive sessions through group discussions, case studies etc. Emphasis would be laid on sharing of experiences of participants. Active participation is solicited from participants. Medium of training is English.

## **TARGET PARTICIPANTS**

The course is meant for engineers involved in construction and maintenance of large and medium dams, irrigation engineers working in operation & maintenance of dams, engineers and scientists working in engineering research laboratories at State and Central Government level as well as from NHPC, NHDC, NTPC, GENCO, CEA, etc..

## **PROGRAMME VENUE, DATES & TIMINGS**

### **VENUE :**

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032, T.S, India.

### **DATES**

**24 – 28 September, 2018**

### **TIMINGS**

On the first day, registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

## **COURSE DIRECTOR**

B. Leela Prasada Rao, *B.E., M.Tech*  
Sr. Faculty  
WRD Division

## **COURSE FEE**

**Residential Fee** is Rs.25,000/- per participant. Residential fee includes course material, course kit, and twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

## **DISCOUNTS**

**Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants.

**Group Discount:** Additional 10% discount for three or more participants if sponsored by the same organization.

**(All discounts are applicable only if fee is received at ESCI before the commencement of the programme)**

**GST @18%** as applicable is to be paid extra over and above the training fee. **PAN Card No** AAATT3439Q; **GSTIN** 36AAATT3439Q1ZV (under commercial training or coaching services).

Programme fee is to be paid in favour of **“IE(I)-Engineering Staff College of India”** in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by **NEFT/ RTGS/ IFSC Code No.** SBIN 0004159 – MICR No.500002075. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

## **REGISTRATION**

Online registration shall be available on ESCI website. To register manually, please send your nominations giving details of name, designation, contact address, email address, mobile, telephone and fax numbers of the participant along with the details of mode of payment of fee, addressed to:

### **Head**

Water Resources Development Division  
Engineering Staff College of India  
Gachi Bowli, Hyderabad – 500 032  
Phone: 040 – 66304117 – 9 (Dir.) 23000465 (EPABX): Extn: 4117– 9  
Fax: 040 - 23000336  
E-Mail : wrd@escihyd.org  
Url : [www.escihyd.org](http://www.escihyd.org)

**CERTIFICATE:** A certificate of participation will be awarded to each participant on conclusion of the programme.

## **GENERAL INSTRUCTIONS**

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station/ Bus stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participants directly to the cab.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00Hrs ) one day after conclusion (Check out at 12:00 hrs) of the programme duration.
- Overstay charges of @ Rs.990/- per day, per head will be charged.
- Well developed Information Centre and internet facilities are available to the participants.