



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



## WATER RESOURCE DEVELOPMENT DIVISION

Continuing Professional Development Programme on  
**Flood Computation and Flood Disaster Management**

09 – 13 October, 2017



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

**Centre for Promotion of Professional Excellence**

## **INTRODUCTION**

Floods have been a recurring menace in India, causing deaths and destruction besides disruption of normal life with substantial economical loss. Rashtriya Barh Ayog estimated 40 million hectares of land in the country as flood-prone, of which 14.37 Mha only have been provided with reasonable degree of flood protection. On an average floods affect an area of about 7.5 million hectares per year. The computation and management of floods are crucial issues in mitigation of such disaster.

For minimizing the losses due to floods, various flood control measures are adopted. The flood control measures termed as “Flood Management” could be either structural measures or nonstructural measures. Wise application of engineering science has afforded ways of mitigating the ravages due to floods and providing reasonable measure of protection to life and property.

As per the National Water Policy 2012 :

- Adequate flood-cushion should be provided in water storage projects, wherever feasible, to facilitate better flood management”.
- Every effort should be made to avert water related disasters like floods and droughts through Structural and Non-structural measures.
- Communities need to be involved in preparing an action plan for dealing with the flood / drought situations.

Again draft National Water Policy 2012 states “While every effort should be made to avert water related disasters like floods and droughts, through structural and non-structural measures, emphasis should be on preparedness for flood / drought with coping mechanisms as an option. Greater emphasis should be placed on rehabilitation of natural drainage system”.

In highly flood-prone areas, flood control needs to be given overriding consideration in reservoir regulation policy even at the cost of sacrificing some irrigation or power benefits. Besides, increased emphasis should be laid on non – structural measures such as flood forecasting and warning, flood plain zoning and flood proofing for the minimizing of losses and to reduce the recurring expenditure on flood relief. There should be strict regulation of settlements and economic activity in the flood plain zones along with flood proofing, to minimize the loss of life and property. The flood – forecasting activities should be modernized, value – added and extended to other uncovered areas. Inflow forecasting to reservoirs should be instituted for their effective regulation”.

Management of floods in the Indian situation has to be organized adopting these guidelines and as per the flood contingency plans formulated by the respective States from time to time.

## **OBJECTIVE**

The present training programme aims at updating the knowledge and upgrading the skills of the participants in Flood Computation Techniques and effective management of floods in accordance with the guidelines laid down in the National Water Policy.

## **COURSE COVERAGE**

- ❖ Overview of Flood Management in India
- ❖ IMD role in Weather Forecasting in India
- ❖ Methods of Flood computations - IDF, SPF and PMF
- ❖ Flood Forecasting Techniques – CWC Procedures
- ❖ Remote sensing Techniques for flood monitoring and management
- ❖ Flood Management – Flood Pain Zoning and Flood Proofing – Structural and Non-Structural Measures
- ❖ Spillway gate operation schedules for Safe Disposal of Flood
- ❖ Flood Management of Krishna River @ Srisaïlam Project during Sept: 2009 – A Case Study
- ❖ Best practices on flood prevention, Protection & Mitigation
- ❖ 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 all the Engineers from Water Resources, Irrigation & Flood Control Departments, NHPC, CWC, MOWR involved in flood control and management

## **PROGRAMME VENUE**

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

## **DATES**

09 – 13 October, 2017

## **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 (S)**

G.D. Ojha, *B.E., M.Tech*  
(Former Regional Director  
Central Ground Water Board, MoWR Gol),  
Head & Sr. Faculty, WRD Division

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, mobiles no, telephone and fax number 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\_esci@yahoo.com; wrd@escihyd.org

Url : 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.