



**Engineering Staff College of India**  
An Autonomous Organ of The Institution of Engineers (India)  
(ISO 9001:2015 Certified Institution)  
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. India



**CIVIL & TRANSPORTATION ENGINEERING**

Continuing Professional Development Programme On

**Bridges & Culverts – Planning, Design and Construction and Maintenance**

**24 - 27 September, 2019**



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

**Centre for Promotion of Professional Excellence**

## **INTRODUCTION:**

The total design, construction and management of bridges can be as simple as or as complex as desired but ultimately it starts with a solid inspection program.

Bridges should have a level 1 maintenance inspection annually to determine if there are any issues that need to be remedied to keep the public safe. A level 1 inspection can be used effectively to screen and develop a program for more detailed needs such as higher level inspections.

A level 2 condition inspection is a more comprehensive inspection and is completed on a less frequent and scheduled basis. Handover inspections can be completed as a level 2 inspection or as a separate report as required. It is imperative that any problems with the infrastructure are identified. Regular inspections make it easier to plan and manage future network demand including budgets and risk.

## **OBJECTIVES:**

Through this programme on **“Bridges & Culverts – Planning, Design and Construction and Maintenance”** from **24 – 27 September, 2019**, it is proposed to discuss different issues related to design and execution of different types of culverts and Bridges. Various issues regarding maintenance of Culverts and Bridges are also discussed.

## **COURSE COVERAGE:**

- Soil Investigations: Location of Bridges, Site Investigations
- Introduction to preparation of DPR for Bridges
- Specifications & DATA's pertaining to bridges
- Types of Foundations, SBC & Settlements
- Bridge Construction Methodology
- Overall Aspects of Bridge design – IRC and Other relevant codes
- Design of Well Foundations, Piers, Abutments and Deck Slab
- Culverts Design – Overall Study
- Bridge Maintenance Techniques
- Strengthening of Bridge abutments by Nailing and Anchoring
- Restoration of Bridges – Case studies
- Site Visit, Case Studies by Participants and Group Discussion

## **METHODOLOGY:**

This programme will be conducted in an interactive environment providing ample scope for discussions. More emphasis will be given in the direction of providing practical solutions. Each of the participants will be given reading material on all the topics covered during the training process.

## **TARGET PARTICIPANTS:**

This programme is planned especially for all the agencies, involved in Infrastructure Projects in National Highway Development Programme, PMGSY programmes, Airports and other similar development activities, Construction Engineers, contractors etc. In addition, faculty members from technical institutes / Universities, dealing in the areas of Infrastructure will also get an exposure to the developments with this training programme and it will help them in reorienting their curriculum to suit the field requirements.

## **BENEFIT TO THE PARTICIPANTS:**

After completion of this training course, the participants will be able to:

- Understand basic knowledge on design and execution of Culverts and bridges
- Understand basic knowledge on Maintenance of Culverts and bridges

## **RESOURCE PERSONS:**

Renowned personalities both from construction industry as well as educational institutes / universities, who are experts in this field, will be involved in providing the training.

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

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

### **Dates:**

24 - 27 September, 2019

### **Timings:**

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

### **Course Director**

**Shri P. Murali Krishna**  
Faculty & Head I/C

### **Course Adviser**

**Shri A.R.K. Murty**  
Adviser

## **FEES**

**₹. 20,000/- (Rupees Twenty Thousand Only) (Residential fee)** per participant. Fee includes, course material, course kit and twin-sharing AC accommodation, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.

## **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.

**GST 18%** is to be paid extra over and above the training fee, as training is also brought under the purview of **Service Tax. PAN Card No AAATT3439Q; Service Tax registration No AAATT3439QST008 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).**

**GSTN Number – 36AAATT3439Q1ZV (HSN Number – 999293)**

Programme fee is to be paid in favor 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 no, telephone and fax number of the participant along with the details of mode of payment of fee.

Addressed to:

**Head, Civil & Transportation Engineering Division**

Engineering Staff College of India

Old Bombay Road, Gachi Bowli, Hyderabad - 500 032

Phone: 040- 66304100 (Reception) / Direct : 6630 4115, 4114, 4138

Programme officer : **9866771815**

Email : [cte@escihyd.org](mailto:cte@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 outstation participants, ESCI will facilitate pick-up and drop **on payment basis** from Airport / Railway Stations / 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 participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation) please feel free to contact programme officer 040-66304115, **9866771815**.
- Well developed Information Centre and Internet facilities are available at free of cost to the participants.