



# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

*Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India*



## ENVIRONMENT MANAGEMENT DIVISION

Continuing Professional Development Programme on  
**Design, Construction and Operation &  
Maintenance of Sewage Treatment Plant  
with Reuse & Recycle Options with Exposure visits**

**11 – 15 November, 2019**



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

**Centre for Promotion of Professional Excellence**

## **Introduction:**

Due to rapid urbanization and industrialization, major cities of India produce 38,354 million litres per day (MLD) of sewage, but the urban sewage treatment capacity is only 11,786 MLD. The level of treatment available in cities with existing treatment plants varies from 2.5% to 89% of the sewage generated. Today the Government of India has missions like "AMRUT", "SMART CITIES", "SWACHH BHARAT" and "HRIDAY" all insist on proper water supply and sanitation both for urban and rural areas. Especially AMRUT schemes have allotted 50,000 crores for 500 cities in India to have a proper water supply, sewerage and septage management, storm water systems, urban transport and green spaces and parks. The Government insists all ULBs and parastatal agencies that most of STPs constructed should focus on Reuse and Recycle of treated waste water. Now all states are preparing the DPR focused on STP with suitable technology adding reuse & recycle options.

To address this issue and give an in-depth knowledge on Design, Construction and O&M of STP, this 5 day programme is conceived with "Design, Construction and Operation & Maintenance of Sewage Treatment Plant with Reuse & Recycle Options".

## **Objective:**

The objective of this programme is to update the knowledge and upgrade the skills of the participants on the principles and design concepts, operation and maintenance practices of Sewage Treatment Plants, development of on-site STP and to explore the opportunities for reuse and recycle of treated wastewater.

## **Course Coverage:**

This programme is designed to cover broadly the following topics.

- ✓ **CPHEEO Manual Guidelines - Engineering, Operation & Maintenance and Management aspects on Sewerage & Sewage Treatment**
- ✓ **Materials and economics of gravity sewer systems**
- ✓ **Sewage pumping systems**
- ✓ **How to plan a sewage treatment plant and reuse system**
- ✓ **Design, Construction and O&M of STP**
- ✓ **Trouble shooting in the O&M**
- ✓ **PPP Models**
- ✓ **Detailed Project Report (DPR)**
- ✓ **Performance evaluation of Sewage Treatment Plant**
- ✓ **Onsite decentralized STP**
- ✓ **Field Visits to STPs**
- ✓ **Group Discussion**

## **Methodology:**

Methodology of the programme includes class room Sessions with Lectures/discussions, with audio visual aid; bench - marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc. All the sessions will be interactive, demanding active participation from all the participants.

## **Target Participants:**

The programme is intended for Engineers, managers in charge of design, monitoring, O&M of Sewage Treatment Plants from Metro Boards, Public Health Engineering Departments, Municipal Administration Departments, Municipal Corporations, Development Authorities, Regulatory Authorities, Public Works Departments, Townships, various Industries and sectors handling Sewage Treatment Plants etc.,

This course is also useful for project management consultants, project implementing agencies and technology promoters.

## **Faculty:**

Apart from the core internal faculty, experienced professionals, consultants, field executives at national level from Metro boards, PHEDs, Municipal Corporations will be invited as Resource Persons / Faculty for this course.

## **Programme Venue, Dates & Timings:**

### **Venue:**

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

### **Dates:**

**11 – 15 November, 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**

### **Dr. M. Subha**

Sr. Faculty & Head I/c  
Environment Management Division, ESCI

## **COURSE FEE:**

**Rs. 25,000/- (Rupees Twenty Five Thousand only) Residential Fee** per participant. Fee includes course material, course kit, twin-sharing/single AC accommodation as per availability, 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.

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

**GST @ 18%** is to be paid extra over and above the training fee, **PAN Card No** AAATT3439Q; **GSTIN No.** 36AAATT3439Q1ZV.

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.

**Kindly provide your organization GSTIN No. along with your nominations.**

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.

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 nos, telephone and fax number of the participant along with the details of payment of fee, addressed to:

**Dr. M. Subha**

Sr. Faculty & Head I/c

Environment Management Division,

Engineering Staff College of India,

Old Bombay Road, Gachi Bowli, Hyderabad 500 032

Phone: Direct 040 6630 4120 to 4122 Fax : 040-23000336

Email : em@escihyd.org/esci\_emd@yahoo.co.in

**CERTIFICATE:**

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

**GENERAL INFORMATION:**

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received atleast 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)
- Well developed Information Centre and Internet facilities are available to the participants.