



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. T.S., India



ENVIRONMENT MANAGEMENT DIVISION

Continuing Professional Development Programme on
**Underground Sewerage Systems -
Design, Operation & Maintenance**
14 – 18 March, 2017



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

Centre for Promotion of Professional Excellence

INTRODUCTION:

Safe water supply and hygienic sanitation facilities are the two basic essential amenities the community needs on a top priority for healthy living. As about 80% of water used by the community comes out of houses in the form of waste water which, unless properly collected, conveyed, treated and safely disposed of, may eventually pollute our precious water resources and cause environmental degradation. Hygienic sanitation facilities through low cost on – site sanitation, conventional sewerage and sewage treatment are very important. As of now, as per Central Public Health & Environmental Engineering Organization (CPHEEO) manual on sewerage and sewage system, about 45% of urban population has been provided with reasonable hygienic sanitation facilities in our country.

Underground sewerage systems for the cities make very valuable contribution to the process of sustainable urban development. Good sewerage system will protect the environment; improve the community health and the quality of life. For proper design, operation and maintenance of sewerage systems, basic knowledge on planning, estimation of wastewater generation, flow characteristics, design principles of sewers, treatment and disposal methods are very essential. It is the social and civic responsibility of all the authorities to fulfill their obligations to maintain good health and hygiene conditions of the cities and towns.

OBJECTIVE:

The proposed Five-day Course aims to enhance the subject knowledge, skills and attitude of the engineers working in Design, Operation and Maintenance of Underground Sewerage Systems. It covers advancements and emerging technologies.

COURSE COVERAGE:

- ✓ **Underground Sewerage System and asset management techniques – Overview**
- ✓ **Guidelines of CPHEEO Manual on UGS**
- ✓ **Design of Sewers**
- ✓ **Sewer Pipes and Appurtenances**
- ✓ **Sewage Pumping Stations**
- ✓ **Construction and laying of Sewer lines and Appurtenances**
- ✓ **Trenchless Technology; Concept and practice**
- ✓ **Operation and Maintenance of Sewer lines**
- ✓ **Sewer Cleaning and Repairs**
- ✓ **Sewage Treatment – Principles & design concepts**
- ✓ **Software Applications in Underground Sewerage System (UGS)**
- ✓ **Technical Field Visits, Group Exercise, Case Studies and Panel Discussions with Experts.**

METHODOLOGY:

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

TARGET PARTICIPANTS:

The course is meant for Engineers/ Managers / Commissioners at all levels working in Metropolitan Water Supply & Sewerage Boards, Public Health Engineering Departments, Municipal Corporations, Municipal Administration Departments, Urban Development Authorities, Industrial Townships, Industrial Development Corporations, Consultancy Organizations, Implementing agencies and self interested professionals / individuals.

FACULTY:

Apart from core internal faculty, experts from industry, consulting firms, government organizations, academic and research institutions etc. will share the lecture sessions.

PROGRAMME VENUE, DATES & TIMINGS:

VENUE:

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

DATES:

14 – 18 March, 2017

Timings:

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

COURSE DIRECTOR

M. Subha

Faculty & Head I/c
Environment Management Division

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.)

Service Tax as applicable @ 15% 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).

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.

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:

Faculty

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 : esci_emd@yahoo.co.in/em@escihyd.org

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.