



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
Septage Management as per MoUD Guidelines
(Way forward for Effective implementation of both Urban
and Rural policy - AMRUT, Swachh Bharat and
Rural Sanitation Schemes)
23 – 25 January, 2017



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

Centre for Promotion of Professional Excellence

INTRODUCTION:

Septage is the settled solid matter in semi-solid condition usually a mixture of solids and water settled at the bottom of septic tank. It has an offensive odour, appearance and is high in organics and pathogenic microorganisms. The National Family Health Survey-3 (NFHS, 2005-06) reported that that 17% urban households in India did not have access to any toilets at home, 24% households were sharing toilets (technologies not specified), about 19% had their toilets connected to sewers, the majority had on-site installations – about 27.6% households had septic tanks and 6.1% had pit latrines that were classified as “improved” and another 5% toilets were as “Flush/pour flush not to sewer/septic. The National Urban Sanitation Policy underlines the necessity for safe confinement and treatment of human excreta. The municipalities/ local government bodies are usually empowered for ensuring the safe handling and disposal of septage generated from on-site sanitary installations.

In conformity with CPHEEO guidelines, these also establish local laws or regulations to govern septage handling and to meet all regulatory requirements and standards. While local bodies or utilities may be responsible for regulation over such practices, lack of systems, resources, capacities and incentives often result in neglect and continuance of uncontrolled dumping of septic tank wastes. Septic tank effluent and septage, with appreciable levels of organics, nitrogen and pathogens, disposed without proper treatment are a cause of concern on account of the organic carbon (as measured as BOD5), nitrogen, phosphorus and pathogens in the effluent. The National Rating of 423 Class I Indian Cities (covering 72% of Indian urban population) on Sanitation (MOUD, Govt. of India, May, 2010) found that 65% per cent (274) of these cities had unsatisfactory arrangements for safe collection of human excreta (whether on-site or sewerage). Government of India Initiatives under Urban Flagship missions like “AMRUT, Swachh Bharat and Rural Sanitation Policy” have emphasized all cities/ towns/ Rural areas should have proper Septage management and disposal practices.

OBJECTIVE:

The objective of this programme is

- To sensitize the participants with latest policy, guidelines and regulatory mechanism of Septage Management.
- To give indepth knowledge on Operation and Maintenance of Sanitary Installations.
- To provide an understanding of Treatment of Septage at Sewage Treatment Plant.

COURSE COVERAGE:

- ✓ Elements of Septage Management
- ✓ National Urban Sanitation Policy, AMRUT, Swachh Bharat and Rural Sanitation schemes of Septage Management.
- ✓ Design, Construction , Installation and O&M of Septic tank
- ✓ Faecal Sludge Management- Cleaning, Transportation and Treatment
- ✓ Mechanical and Biological Cleanings of Sewers and Septic tanks
- ✓ Septage Treatment Process
- ✓ Dewatering of Septage
- ✓ Dewatered Septage Reuse
- ✓ Case Studies
- ✓ Group Discussion

METHODOLOGY:

Methodology of the programme includes class room Sessions with Lectures/discussions with audio visual aid; 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:

Engineers and Executives from at all levels working in Public Health & Sanitation, Metropolitan Water Supply & Sewerage Boards, Sanitation Boards, Public Health Engineering Departments, Municipal Corporations, Municipal Administration Departments, Urban Development Authorities, Educational Institutions, Parastatal Agencies, Rural Water Supply & Sanitation, ULBs, Industrial Townships, Industrial Development Corporations, Consultancy Organizations, Implementing agencies and interested professionals / individuals.

FACULTY:

Apart from core internal faculty, experts from Public Health, Sanitation and ULB Functionaries will share the sessions.

PROGRAMME VENUE, DATES & TIMINGS:

VENUE:

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

DATES:

23 – 25 January, 2017

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

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

COURSE FEE:

Rs. 16,000/- (Rupees Sixteen 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:

M. Subha
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.