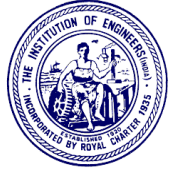




Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
ESCI Road, Gachibowli, Hyderabad – 500 032. Telangana, India



Environment Management Division

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME ON

Urban Water Utilities: Water Audits and Technical Tools for NRW, CGW and Water Supply Systems



10-12 November 2026

Interactive Sessions | Digital Learning | Assessments | 24/7 Experts Online/Offline Support

Introduction

India's rapidly growing urban areas are placing increasing pressure on water resources and urban water utilities. At the same time, utilities face challenges related to water losses, intermittent supply, inadequate metering, ageing distribution networks, groundwater stress, energy consumption and financial sustainability. AMRUT 2.0 places strong emphasis on improving water-use efficiency and reducing Non-Revenue Water (NRW) to below 20%, supported by water metering, District Metered Areas (DMAs), leakage detection and water-audit systems.

The transition towards 24x7 water supply, smart water management and data-driven utility operations requires systematic water auditing, accurate measurement, active leakage management, improved customer metering and effective use of digital technologies such as SCADA, GIS and emerging smart-water tools. Groundwater sustainability is also becoming increasingly important, with national groundwater assessment and aquifer-management approaches providing a basis for informed urban water-resource planning.

This three-day course provides practical understanding of urban water supply systems, water auditing, NRW assessment and reduction, groundwater management and technical tools for improving the efficiency, reliability and financial sustainability of urban water utilities.

Objectives

To strengthen participants' understanding of water auditing, NRW management, groundwater sustainability and efficient urban water supply systems.

To equip participants with practical tools for measurement, leakage reduction, metering, monitoring and data-driven management of urban water utilities.

Course Coverage

- Urban Water Utilities: Challenges, Functions and Service Delivery
- **Water Audits:** Water Balance, Measurement and Performance Assessment
- **Non-Revenue Water (NRW):** Assessment, Components and Reduction Strategies
- **CGW:** Assessment, Management and Monitoring in Urban Water Systems
- Water Metering, Bulk Metering and Smart Metering
- District Metered Areas (DMAs) and Leakage Detection
- Pressure Management and Network Performance
- SCADA, GIS and Digital Tools for Water Utility Management
- Groundwater, Water Conservation and Source Sustainability
- Energy Efficiency and Pumping Optimisation
- 24x7 Water Supply and Utility Performance Improvement
- Case Studies, Practical Tools and Interactive Exercises

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

Centre for Promotion of Professional Excellence

Methodology

Methodology of the programme includes classroom 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

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. Mixed group of officials (Commissioner/ EO, Engineers), – decision makers (Commissioners and Executive Officers) and senior engineers, engineers water supply and waste water management.

Programme Dates, Code & Timings

Dates: 10-12 November 2026 (EM 6119) & Timings: 10:00 AM onwards.

Course Director

Ms. Anita Aggarwal

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

Phone: Direct 040 6630 4120, 4122 / Fax: 040-66304163

Mob: 8374362306.

Email: em@escihyd.org

(or) Contact us at: Mr. GNM. Rao (Prog. Manager) – 9866431555.

Faculty/Speaker Details

Apart from the core internal faculty, Experienced Professionals/Faculties/Sector experts will be delivering the lively lecture with practical knowledge & case study.

Course Fee

- **Residential Fee – Rs. 18,000/-*** (Rupees Eighteen Thousand only) 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. 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).
- **Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants.
- **Group Incentive:** 10% discount one Course fee for five or more participants, if sponsored by the same Organization.

* **GST @18%** is to be paid extra over and above the training fee. **PAN Card No.** AAATT3439Q. **GST No:** 36AAATT3439Q1ZV, **HS No.:** 999293 (under commercial training or coaching services – clause 65(105) (ZCC) of Finance act – 1994).

Programme fee is to be paid in favour of “**The 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. PAN Card No AAATT3439Q; GSTIN No. 36AAATT3439Q1ZV**. While using EFT method of payment, please ensure to communicate us your company name, Contact details, our invoice reference and programme title. **Kindly provide your organization GSTIN No. along with your nominations**

Registration

Online registration shall be available on ESCI web portal : www.escihyd.org

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: **Course Director**.

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

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