

## Key takeaways from the Course

- Water quality and water requirement for Industrial and domestic uses
- Non-Revenue Water- causes, effects and control
- Recycling and Reuse of Wastewater and Zero Liquid Discharge
- Water Audit – Types, Procedure for conducting water audit
- Instrumentation for water audit - Smart Flow Meters
- Measures for control of NRW – Economics and payback period
- Case studies

### Course Fee (including GST)

General **Rs.7500/-**  
(Early Bird Discount of Rs. 500 for those registering on or before February 24th)

SEEM Members **Rs.6500/-**  
Students / Faculty **Rs.6500/-**

#### N.B.:

For outstation participants Hostel Facility is available on Twin Sharing Basis. Maximum 15 Participants on First cum First Serve Basis .

(Rs. 500+GST) / Person /Day .

Registration Link :

<https://forms.gle/nKLt6gpz1t281KJv6>



## SEEM

Society of Energy Engineers and Managers (SEEM) India is the National Professional body of Certified Energy Managers, Auditors and Energy Professionals in the country launched in the year 2005 and registered under the Charitable Societies Act 1955. We are a non-governmental/non-profitable Organization with 15 chapters and 7 centres spread over 22 States and engaged in delivering networking and skill development opportunities to the members by organizing training programs, workshops etc.

### Address :

**Society of Energy Engineers and Managers**

**SEEM Bhavan, TC29/4282,  
Mani Mandiram Panavila Junction  
Trivandrum, Kerala, India – 695001**

E-mail: [seemhq2011@gmail.com](mailto:seemhq2011@gmail.com)

Website: <https://seemindia.org>



Electronic Leak detection Equipment



## TRAINING COURSE

On

## “ Water Audit for Industries and Large Apartments”

March 2, 3 & 4 2023

10.00 am to 5.00pm

### Venue :

**Chennai Metro Water Training Centre**  
No.56, Raji Street,  
Ayanavaram, Chennai-600023  
Tel: 044-26442611/26473326

Organized by



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Society of

**ENERGY ENGINEERS AND MANAGERS**

Website: <http://seemindia.org>

Certificate will be issued on  
successful completion of Training

## About the Key Trainer



### Dr. R. Pannirselvam,

Dr. R. Pannirselvam, born on 10th June 1941, is a retired Deputy Chief Engineer from Tamil Nadu Water Supply and Drainage Board and currently Guest faculty at Centre for Environmental Studies, Anna University. He is also Freelance Environmental Engineering Consultant with specialization in Wastewater Treatment.

He has a total of 58 years of experiences in planning, designing, implementing, operating and maintaining water supply and sewerage projects, preparation of Environmental Impact Assessment and teaching Environmental Engineering Subjects at Anna University.

He has B.E degree in Civil Engineering (Madras University), M.E. degree in Public Health Engineering (Madras University) and Ph.D. degree in Civil Engineering (Anna University).

He is a Life Fellow of Indian Water Works Association and Life Fellow of Institute of Public Health Engineers. He has authored and published eight books in different topics of Environmental Engineering. He is regularly delivering lectures in different topics in different Refresher Courses of field Engineers in number of Training Centers.

## Aim of Water Audit

1. To assess the level of Non-revenue water (NRW) in the facility
2. To evolve Bench mark for different uses
3. To suggest measures to reduce NRW and ensure efficient water uses
4. Economics – To arrive at the payback period

### Course coverage

#### Day 1

Over view of Water Supply System and Non-Revenue Water

(2) Water Audit - Types - Procedure for Conducting Audit

(3) Recycling and Reuse of Wastewater and Approaches to zero Liquid Discharge

(4) Tutorial



**Water Audit Course held  
from  
10/10/22 to 14/10/2022  
at Chennai.**

#### Day 2

- (1) Instrumentation - Smart flow meters
- (2) Economic Analysis and Pay back period
- (3) Field Visit to Koyambedu STP and TTRO plant

#### Day 3

- (1) Case Studies - Industrial Water Audit
- (2) Case Studies – Large Apartment Complex
- (3) Overview of O&M of water supply systems
- (4) Evaluation and Feed back & Valedictory Function.

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