



## **TRAINING** **PROGRAM BY IWMA**

### **Operation & Maintenance** **of ETP & STP systems**

**23.06.2017 (9.30AM To 5.30 PM)**

**Classroom session at IWMA Office**

[www.iwma.in](http://www.iwma.in)

#### **INDUSTRIAL WASTE MANAGEMENT ASSOCIATION**

**New No. 34, (Old No. 70) First Floor,  
Brindavan  
Street, West Mambalam  
Chennai 600033.  
Tamil Nadu**

**Ph: 044-45522655**

### **OBJECTIVE**

One day training on “**Operation & Maintenance of ETP & STP systems**” is organized to make members aware of Operation & Maintenance of ETP & STP, its Treatment Systems, trouble shootings, effluent standards, disposal techniques, sludge handlings etc.

### **METHODOLOGY:**

- Power point presentation
- Videos
- Case studies of ETP & STP Operations
- Group Exercise on Assessment of Performance of ETP / STP
- Quiz programme & Group Discussion

### **HIGHLIGHTS**

#### **1. Water Pollution: An Overview**

Sources of wastewater, generation in Domestic & industrial sector, Health Impact, prevention & Control measures, pollution control Acts & Rules etc.

#### **2. Characteristics of Wastewater:**

Physical, Chemical and Biological Parameters & their Significance in STP & ETP

#### **3. Types of Treatment Systems:**

Primary, Secondary & Tertiary Treatment Process, Recycling process, Disposal Standards & Methods, ZLD system etc.

#### **4. ETP & STP Operation & Maintenance Techniques:**

Operation parameters, Norms Discharge Standards & Trouble Shooting, Group Exercise on Interpretation of Performance Data etc.

#### **5. Sludge Utilization & Disposal Methods:**

Sludge Digestion Tank (Biogas Plant), Land application as Manure Dewatering or Drying of Sludge Drying Bed, Filter Press Co-processing in Cement Kilns Disposal to TSDF site etc.

### **BENEFITS:**

1. Development of knowledge, & skill for operation ETP/STP.
2. Knowledge & Experience sharing for better understanding.
3. Disposal methods

### **TARGET AUDIENCE:**

Managers of ETP/STP operations,  
Supervisors handling ETP/STP  
Technicians, Field operators  
Environment and Safety professionals

## FACULTY MEMBERS

Mr. A. Manoharan,

Former Zonal Officer, CPCB

35 years of experience in Pollution Control activities in CPCB

## PROGRAM DETAILS

### DATE:

23.06.2017 (9.30AM To 5.30 PM) –  
Classroom session

### VENUE:

INDUSTRIAL WASTE  
MANAGEMENT ASSOCIATION  
New No. 34, (Old No. 70) First Floor,  
Brindavan Street,  
West Mambalam  
Chennai-6000033.  
Tamil Nadu

Ph: 044-4552265

## PARTICIPATION FEE

IWMA Members - Rs.1000 /- per participant (Non-Transferable)

Non-Members – Rs 1500/- per participant (Non-Transferable)

## NUMBER OF PARTICIPANTS

Total number of participants is limited to 25. (FIRST COME FIRST SERVE BASIS)

Participants restricted to 2 per organization.

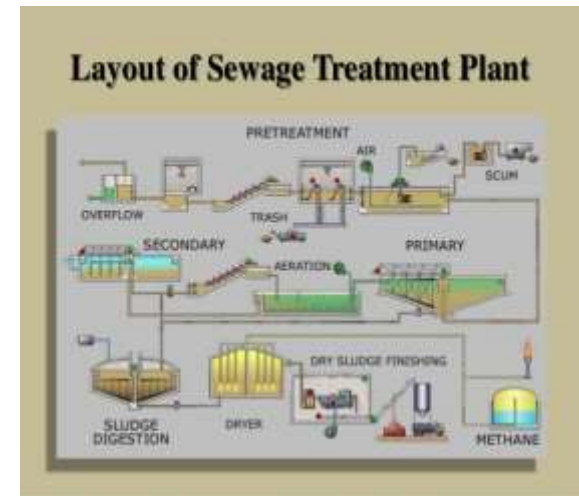
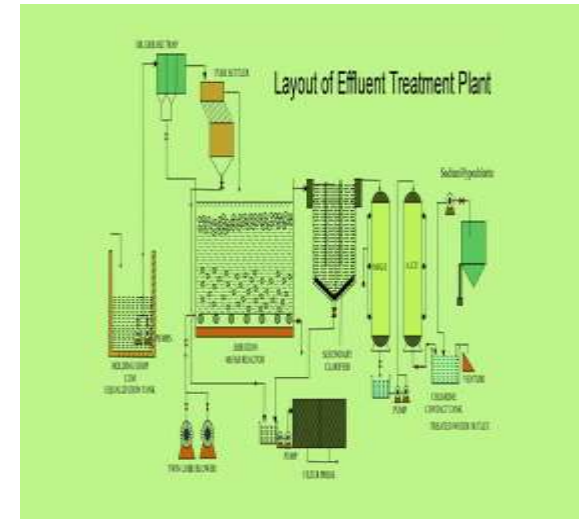
## REGISTRATION METHOD

E-Mail the details of participant(s) along with IWMA Membership number for confirmation to:

**[technical@iwma.in](mailto:technical@iwma.in)**

Once confirmed, send Registration form & Cheque / DD to:

**New No 34, (Old No. 70), First Floor,  
Brindavan Street, West Mambalam  
Chennai- 600 033**



For further details, Contact us

E-Mail: [technical@iwma.in](mailto:technical@iwma.in)

Phone No: **044 – 24728069/ 45522655**

**Chairman: Mr. Mani. S**

**Secretary: Mr. Baskaran. K**

## INDUSTRIAL WASTE MANAGEMENT ASSOCIATION TRAINING PROGRAM



### REGISTRATION FORM

We are pleased to nominate the following participant(s) for the training program:

Participant Details:

Name : \_\_\_\_\_

Designation : \_\_\_\_\_ Organization: \_\_\_\_\_

Membership no : \_\_\_\_\_

Address : \_\_\_\_\_

City & Pin code : \_\_\_\_\_

E-mail : \_\_\_\_\_ Tel : \_\_\_\_\_

The DD / Cheque No. \_\_\_\_\_ for Rs \_\_\_\_\_ towards the delegate fee drawn in favour of "**Industrial Waste Management Association**", payable at Chennai is enclosed.

[www.iwma.in](http://www.iwma.in)