



Regd.No 256/2002

**INDUSTRIAL WASTE MANAGEMENT ASSOCIATION**

# **PRIMARY TREATMENT OF INDUSTRIAL WASTEWATER**

**Dr.G.SEKARAN**

**FORMERLY CHIEF SCIENTIST & CLUSTER CHAIRMAN**

**ENVIRONMENTAL TECHNOLOGY DIVISION**

**CENTRAL LEATHER RESEARCH INSTITUTE**

**VENUE:**

**TRAINING HALL**

**IWMA OFFICE**

**KOYEMBEDU**

**DATE:**

**26<sup>th</sup> April '19**

**TIME:**

**10:00 am - 04:30 pm**

# TOPICS (HAND ON EXERCISE)

- **Wastewater flow**
  - **Processing capacity and per capita consumption**
- **Pollution parameters**
  - **Classification of COD**
  - **Suspended Solids**
  - **Dissolved solids**
  - **Nitrogen oxygen demand**
  - **Calculation of COD of wastewater and COD of Biomass / Sludge**
- **Screening**
  - **Design of screens and importance of spacing in the screen and disposal of the screening**
- **Grit chamber**
  - **Design of grit chamber**
  - **Calculation of grit chamber**



- **Equalization tank**
  - **Design of an Equalization chamber**
  - **Different configurations of Equalization chambers**
  - **Calculation of volume of equalization chamber for industry**
- **Coagulation and Flocculation**
  - **Colloidal theory and mechanism on Coagulation and Flocculation**
  - **Calculation on determination of Coagulant dosage**
  - **Calculation of sludge production for an industry**
- **Primary sedimentation**
  - **Different configurations of sedimentation tanks**
  - **Design of primary sedimentation tank**
  - **Calculation of volume of Primary Sedimentation tank for an industry.**
- **Sludge Drying Bed: Design of sludge drying bed**
  - **Calculation of area of sludge drying Bed for an industry.**
- **Alternative technology to conventional Primary clarifier**
  - **Minimum sludge production technology**



## **BENEFITS**

- **Enhancing Proficiency in Environmental management of Industrial wastewater**
- **Judicial use of Coagulants**
- **Management of Sludge**
- **Importance to reduce Sludge production in the ETP.**
- **Enhancing Environmental Performance**
- **Achievement of Reducing Waste at Source**

## **IWMA MEMBERS FEES**

**Rs.1500 +18% GST**

**per participant**

**(Non-Transferable)**

## **NON-MEMBERS FEES**

**Rs 1750 +18% GST**

**per participant**

**(Non-Transferable)**

## **TARGET AUDIENCE**

- **Senior Managers**
- **Managers**
- **Engineers**
- **ETP/STP Operators**

## **NUMBER OF PARTICIPANTS**

**Total no of participants limited to 35**  
**Based on first come first serve basis**  
**Two participants per organization**

## **REGISTRATION METHOD**

**Fill in the registration form and mail to the following ID: [training@iwma.in](mailto:training@iwma.in)**

**Click the following link to register for the training program**

**<https://goo.gl/forms/hHbMdDY6KZjroJ5a2>**

**Fees should be paid on or before the day of the program**

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

**The cheque / DD for Rs. ----- in favour of Industrial Waste Management Association**

### **Address:**

**Industrial Waste Management Association**

**# 409 Ten Square Mall, 3rd Floor,**

**No: 64 Jawaharlal Nehru Road, 100 ft Road**

**Koyembedu- 600 107.**

**Landmark: Near Koyambedu Bus Stand.**

**Ph: 7708777393/044-45522655/ 044-24798069**

## **REGISTRATION FORM**

### **INDUSTRIAL WASTE MANAGEMENT ASSOCIATION TRAINING PROGRAM**

#### **PARTICIPANTS' DETAILS**

- **Name:**
- **Designation:**
- **Organization:**
- **Membership no:**
- **Address:**
- **City and pin code:**
- **Email and phone:**

**\*\*Certificate of Participation will be awarded to participants upon successful completion of the program\*\***

**Last date for Registration through mail: 24.04.2019**