



# ALMIGHTY EFFLUENT TREATMENT MACHINE

Fully Automated, Sustainable Patented Technology

## ALMIGHTY ENGINEERING

GSTIN: 33ABRFA5147J1Z7

MSME Reg. No. UDYAM-TN-12-0001085

### Office Cum Factory

Plot No.72 Annamalai Garden, Manikkampalayam,  
Kovilpalayam- Karuvalur Road,  
Kunnathur Village, Annur,  
Coimbatore-641107, TamilNadu, India.





**Process Upgradation**

CETPs are designed and operated for common effluent characteristics and for a fixed range of quantity. The plant gives its best performance only when it operates with the designed effluent characteristics and quantity. However, the effluent characteristics and quantity can vary according to the changes in manufacturing processes and production rate in the industry. Unfortunately, upgradation of CETPs according to such changes in the industry is almost impossible.

This challenge has been addressed in AETM by allowing easy upgradation of the process and capacity. If the quality of the effluent water varies due to the new toxic chemicals, we can recheck the quality and re-design AETM with minimal modifications for



**For onsite demo/enquiries:**

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## Recognitions



### Developed by the support of

**Department of Scientific & Industrial Research**  
Ministry of Science and Technology  
Government of India.



### Patented by Government of India.

Patent No. 274877  
Application:  
581/CHE/2010  
Date: 05-03-2010

### Recognized and Recommended for Commercial Use by



**Ministry of Environment, Forest and Climate Change,**  
Government of India



**Central Silk Technological Research Institute,**  
Bangalore,  
Government of India.



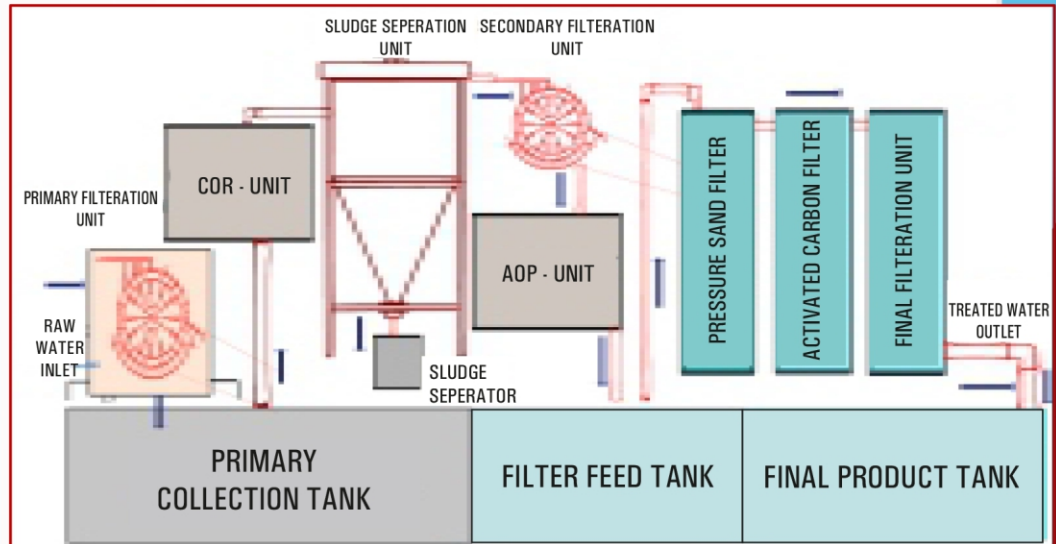
**The South India Textile Research Association,** Coimbatore,  
Tamil Nadu State



**Tamil Nadu Handloom & Textile Department**  
Government of Tamil Nadu.

## Steps in AETM Design & Delivery

- ◆ Collecting sample effluent/sewage
- ◆ Testing the effluent characteristics
- ◆ Selecting the appropriate treatment processes
- ◆ Designing AETM
- ◆ Fabricating AETM
- ◆ Demonstrating AETM operation
- ◆ Testing the output characteristics
- ◆ Delivering AETM to the customer



## AETM Process

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**AETM  
Test  
Results**

## AETM Treatment Scope (before RO)

Parameter	Input	Output
pH	Up to 10 -12	6.5-7.5
COD	Up to 50000 mg/l	Less than 250 mg/l
BOD	Up to 7500 mg/l	Less than 30 mg/l
TDS	Up to 20000	As per raw effluent TDS
TSS	Up to 1200 mg/l	Less than 30 mg/l
Total Hardness	Up to 1500 mg/l	80-90% Removed

Raw Effluent



After COPR Process



After AOPR Process



After Sand & Carbon  
Filtration



After Ultrafiltration  
(before RO)



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## AETM Commercial Mobile Demo Plant

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