

Our Esteemed Client



**PLIZMA
TECHNOLOGY**
WE TREAT YOUR WATER

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An ISO 9001:2015 Certified Company





The Company

Plizma Technology is a bunch of innovative and experienced people who look towards wastewater in a different prospect & work relentlessly to offer specialized solutions with a solid optimism and positive approach. We accept challenging tasks and take them through offering high-quality, effective wastewater & water treatment solution is our speciality.

Plizma Technology provides a wide range of products for water & wastewater treatment including design/build of packaged type plants; design, engineering and project management of turnkey solutions. With decades of experience in water & wastewater treatment, **Plizma Technology** personnel are dedicated to providing sound engineering solutions to clients while minimizing overall project costs and surpassing extreme quality expectations.

Wastewater Treatment Systems

- Complete Package System for ETP/STP
- Turnkey Solution Provider for ETP/STP
- Biological Systems Experts
- Effluent Recycling Systems
 - UF/ RO System
 - ZLD System
 - Tertiary Treatment System(PSF/ACF/DMF)

Water Treatment Systems

- UF-RO System
- DM Water Plants
- Water Softeners
- Filtration Systems (PSF/ACF)
- Special Treatment Technologies
(Heavy Metal Removal/Fluoride Removal)



Wastewater Treatment Equipments & Chemicals

- Oil Removing Equipment/Oil Skimmer
- Tube Settlers
- Screens
- Diffused Aeration System & Equipments
- MBBR Media/SAFF Media/Tube Settler Media
- MBR Membranes
- Water & WasteWater Pump
- Sludge Dewatering Equipment
 - Filter Press
 - Basket Centrifuge
 - Decanter Centrifuge
 - Sludge Bag Filler
- Water Treatment Chemicals

Wastewater Management

- UF-RO System
- DM Water Plants
- Water Softeners
- Filtration Systems (PSF/ACF)
- Special Treatment Technologies
(Heavy Metal Removal/Fluoride Removal)

Effluent Treatment Plants

Plizma's - Effluent Treatment Plants (ETP)

We Design, Manufacture, Supply, Erection and Commissioning Effluent Treatment Plant (ETP) on Turnkey basis for various types and natures of wasteWaters, effluents which combines advanced physico-chemical treatment processes with tertiary polishing system for the removal of organic, inorganic, oil and grease, heavy metals & suspended solids.

Our Methodology

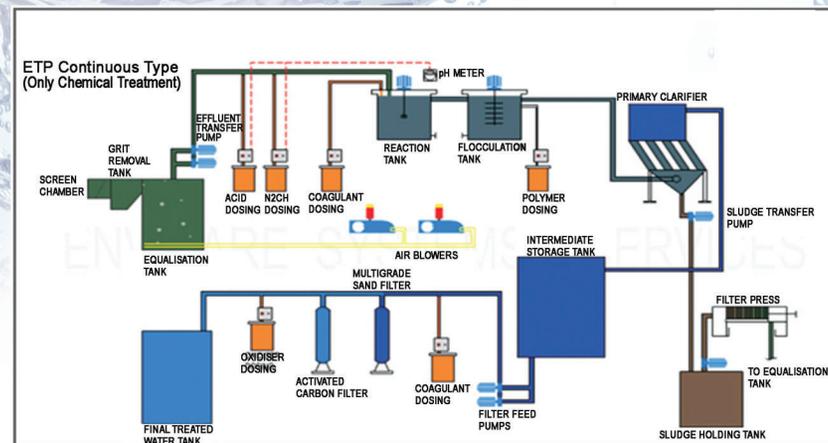
We analyze the effluent samples for different effluent parameters as per nature and compositions, carry out the treatability studies by using different methods checking techno-commercial Feasibility and then designed treatment schemes, processes accordingly to suit the purpose and need.

Our ETP systems are very compact, tailor made designs, portable required very less foot-print to accommodate, energy efficient. The up-gradation, modification in the existing ETP system is possible to achieve desired limiting standard laid down by the Pollution Control Board (PCB).

The Principle

The principle of operation of ETP is Physico-Chemical treatment followed by Polishing Treatments like – Sand Filtration, Activated Charcoal treatment (Adsorption), Ozonisation (Chemical Oxidation), Ultra Filtration (UF), Reverse Osmosis (RO) and evaporation (If required).

Typical flow sheet diagram : (ETP Continuous Type)



ETP Containerised Type

Capacity : As per client Requirement

Technology : Physical / Chemical / Biological / UIFiltration

Features :

- Semi-automatic Operation.
- Required less space as compared to conventional design.
- Very Compact and Great aesthetic.
- Reduced Installation and commissioning time on site.
- Plug and play operation.
- Easy Dismantling and transportation.
- Made to order product.
- Civil Work – Collection Tank and Container Foundation.

Typical Industries :

Chemical, Pharmaceuticals, Automobiles, etc.



ETP - Continuous Type

Capacity : As per client Requirement

Technology : Physical / Chemical / Filtration

Features :

- Semi-automatic Operation.
- MS process tanks with internal FRP Coating
- Automatic chemical dosing with online pH monitoring.
- Advanced Filtration systems like UF, RO for Zero liquid discharge.
- Advanced sludge handling system.
- Compact design, required low foot print
- Better treated effluent quality as compare to conventional system.
- Corrosion free UPVC piping & FRP / Epoxy Lined MS tanks.
- Process Tanks – MS Fabricated / Civil (RCC)

Typical Industries : Automobile, Metal pre-treatment, Pharmaceuticals, Chemical, etc.



CETP Chemical, Biological Type

This type is called combined Effluent Treatment plant – either batch or continuous type. The chemically treated effluent will lead to biological treatment for the removal of organic matter and to control the TDS values.

Treatment : Physical / Chemical / Biological / Filtration

Features :

- Semi-automatic Operation.
- MS process tanks with internal FRP Coating
- Automatic chemical dosing with online pH monitoring.
- Advanced Filtration systems like UF, RO for Zero liquid discharge.
- Advanced sludge handling system.
- Compact design ,required low foot print
- Better treated effluent quality as compare to conventional system.
- Corrosion free UPVC piping & FRP/Epoxy Lined MS tanks.
- Process Tanks – MS Fabricated / Civil (RCC)

Typical Industries : Pharmaceuticals, Chemical, Paint, Textile, Sugar.

ETP - Package - Compact Modular

Capacity : As per client Requirement

Technology : Physical / Chemical / Filtration

Features :

- **Very cost effective :** Less initial Investment.
- **Types :** Continuous
- **Atomization :** Manual, Semi-automatic and Fully-automatic.
- Compact and proven design: Required very Low footprint.
- Quality Components and Mounting items: Special sludge pump and total corrosion free UPVC piping & FRP/Epoxy Lined MS tanks.
- **Water Recycle :** Recycling of treated is possible with advanced treatment methodology like UF and RO.
- Operation and maintenance: Very silent in operation and any unskilled person can operate it, after proper training.



ETP - Zero Liquid Discharge (ZLD)

Capacity : As per client Requirement

Technology : Physical / Chemical / Advance Filtration / MEE and ATFD

Features :

- Advance Level of treatment for ZLD
- **Types :** Continuous
- **Atomization :** Manual, Semi-automatic and Fully-automatic.
- Very Compact and proven design.
- **Comprises of :** regular ETP followed by UF and RO and final treatment by MEE + ATFD
- **Water Recycle :** Recycling of treated is possible with advanced treatment methodology like UF and RO.
- **Water Recycle :** Recycling of treated effluent is possible with advanced treatment methodology like UF and RO / MEE and ATFD

Typical Industries : Chemicals, Pharmaceuticals, Hazardous Effluent, Metal pre-treatment, etc.



Zero Liquid Discharge



Containerised UF Plant



ETP Plant





Sewage Treatment Plants

Plizma's- Sewage Treatment Plants (STP) :

We Design, Fabricate, Supply, Erection and Commissioning Sewage Treatment Plants (STP) for treating sewage generated by Industry, large colonies, Hotels, Hospitals, IT Parks and commercial buildings.

Now a days the Sewage Treatment Plant (STP) became statutory requirement of all the State Pollution Control Boards, everybody, whether Hotelier or Industrialist were looking for economical, easy to install and operate compact type Sewage Treatment Plant. Since the land is extremely expensive, very few industries could afford the large treatment units as recommended by most of the Consultants.

We are being pioneer in the field from last 10 years and always in the search of latest and techno-commercially viable technology, system by which the need of the society can be easily satisfied.

The Principle

Its working on the principle of Aerobic Treatment with the help of aerobic bacteria, which is most conventional and proven method throughout the world. Envicare's Modified Septic Tank (MST) Systems – Its works on principle on anaerobic digestion.

Technologies Used

- ASP : Activated Sludge Process
- MBBR : Moving Bed Bio reactor
- SAFF : Submerged aerated Fixed Film
- SBR : Sequential Bioreactor
- MBR : Membrane Bio Reactor

Typical Treated Sewage Analysis: After Tertiary Treatment:

- Sr. No Parameter Unit Treated water as per PCB
- 1 pH - 6.5 - 8.5
- 2 TSS Mg/l < 30 - 10
- 3 BOD Mg/l < 10- 30
- 4 COD Mg/l < 50 -100
- 5 Oil &Grease Mg/l < 5

Typical Raw Sewage Analysis:

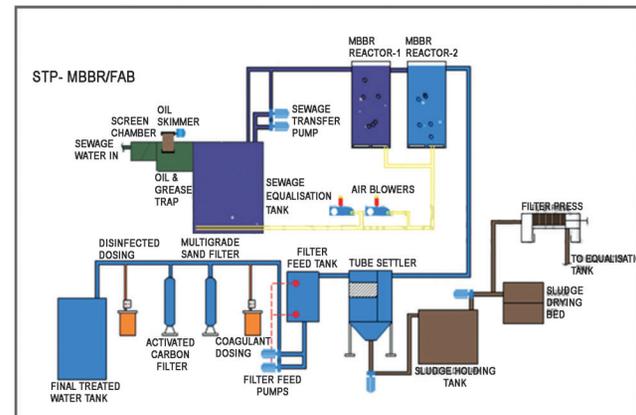
- Sr. No Parameter Unit Average
- 1. pH - 5.5-8.0
- 2. TSS Mg/l 150- 200
- 3. BOD Mg/l 200-250
- 4. COD Mg/l 500-600
- 5. Oil & Grease Mg/l < 25

Types Of Plizma'sSTP's :

- Compact - Modular
- Civil Type



Typical Flow Sheet Diagram:



Plizma Offers following STP:

STP Package Type (Pre-fabricated)

Capacity : As per client Requirement

Technology : MBBR / SAFF / SBR / MBR

Features :

- Semi-automatic Operation.
- Easy to transport & Installation
- Erection and commissioning by Trained and experienced Envicare Team
- **MOC of Tank** = MS-FRP (Coated) /MSEP.
- Completely above ground Installation.
- Only Sewage collection tank in Civil (RCC)

Typical Industries : Medium Scale Industries, Housing Complex, Labour Camps, etc.



STP- Civil Type

Capacity : As per client Requirement

Technology : ASP / MBBR / SAFF / SBR / MBR

Features :

- Semi-automatic Operation
- Minimum Maintenance Required
- Underground Civil Work (RCC) Construction
- Erection and commissioning by Trained and experienced our Team
- Treated Water can use for Irrigation, Gardening, Flushing Purpose

Typical Industries : Large Societies, Hospitals, Hotels, Large Industries, Commercial Complex.

