

PURE WATER, _____ ✨ ✨
POWERFUL INDUSTRY
Advanced Treatment Solutions





Industrial Reverse Osmosis (RO) Plant

ABOUT THE SYSTEM :

An Industrial RO Plant is an advanced water purification system designed to remove dissolved salts, chemicals, and impurities from water using reverse osmosis technology. It ensures high-quality purified water for industrial applications.

WHY CHOOSE US :

Customized STP design as per site requirement
Latest technology with high efficiency
Skilled installation & commissioning
After-sales service & AMC support
Competitive pricing with quality assurance

HOW IT WORKS :

Raw water passes through pre-treatment filters (Sand Filter & Carbon Filter) High-pressure pump pushes water through RO membranes Membranes remove TDS, bacteria, and contaminants Pure water (permeate) is collected, reject water is discharged

KEY FEATURES :

High TDS removal (up to 95–99%)
Fully automatic / semi-automatic operation
Energy-efficient design
Durable SS / FRP skid structure
Advanced control panel with safety features
Low maintenance & long membrane life

TECHNICAL SPECIFICATIONS :

Capacity : 500 LPH to 100,000 LPH
Feed Water TDS : Up to 5000 ppm (customizable)
Recovery Rate : 50% to 75%
Membrane Type : Thin Film Composite (TFC)
Operating Pressure : 8–20 bar
Power Supply : 3 Phase / 415V



APPLICATIONS :

Pharmaceutical industries
Food & Beverage processing
Textile & dye industries
Chemical plants
Boiler & cooling tower feed
Packaged drinking water plants

BENEFITS :

Improves product quality
Reduces scaling in pipelines & equipment
Saves operational cost
Eco-friendly water treatment solution
Consistent water quality output

MAIN COMPONENTS :

Multi Grade Sand Filter (MGF)
Activated Carbon Filter (ACF)
Micron Cartridge Filter
High Pressure Pump
RO Membrane Housing
Dosing System (Antiscalant / Chlorine)
Control Panel



SEWAGE TREATMENT PLANT (STP)

ABOUT THE SYSTEM :

A Sewage Treatment Plant (STP) is designed to treat domestic and industrial wastewater, removing contaminants, organic matter, and harmful bacteria to make water safe for reuse or discharge.

WHY CHOOSE US :

- Customized STP design as per site requirement
- Latest technology with high efficiency
- Skilled installation & commissioning
- After-sales service & AMC support
- Competitive pricing with quality assurance



TREATMENT PROCESS :

Screening : Removes large solids and debris

Equalization Tank : Balances flow and load

Biological Treatment : Aeration process breaks down organic matter

Clarification : Settles sludge and separates clean water

Filtration & Disinfection : Final polishing using filters & chlorine/UV

KEY FEATURES :

High efficiency BOD & COD removal

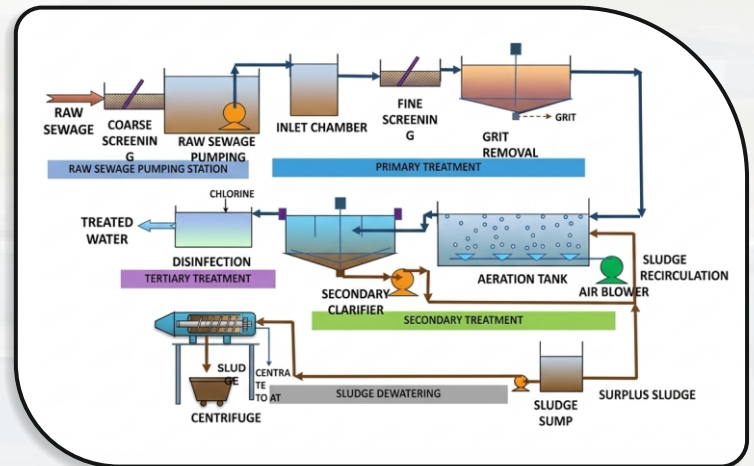
Compact & modular design

Low power consumption

Odor-free operation

Automatic / semi-automatic system

Durable structure (RCC / MS / FRP)



TECHNICAL SPECIFICATIONS :

Capacity : 10 KLD to 1000+ KLD

BOD Removal : Up to 90–98%

COD Removal : Up to 85–95%

Technology : MBBR / SBR / ASP / MBR

Power Requirement : As per capacity

Output Water : Suitable for reuse

APPLICATIONS :

Residential apartments & societies

Hotels & resorts

Hospitals

Commercial complexes

Industrial facilities

Municipal wastewater treatment

BENEFITS :

Water reuse for gardening, flushing & cooling

Reduces environmental pollution

Complies with pollution control norms

Saves freshwater consumption

Eco-friendly wastewater management

MAIN COMPONENTS :

Bar Screen Chamber

Equalization Tank

Aeration Tank

Clarifier

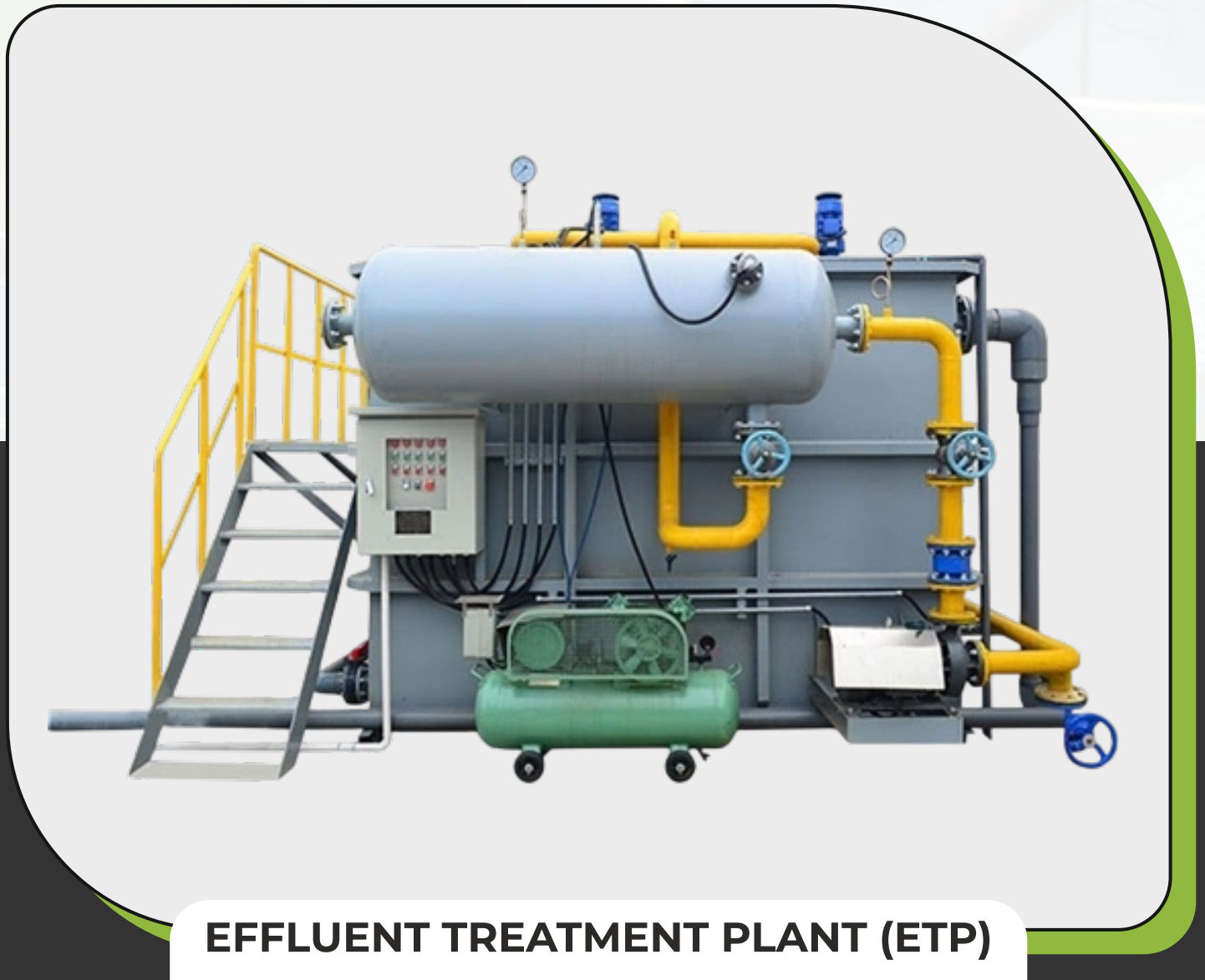
Sludge Drying Bed / Filter Press

Pressure Sand Filter (PSF)

Activated Carbon Filter (ACF)

Dosing System Control Panel





EFFLUENT TREATMENT PLANT (ETP)

ABOUT THE SYSTEM :

An Effluent Treatment Plant (ETP) is designed to treat industrial wastewater containing chemicals, oils, heavy metals, and toxic substances. It ensures safe discharge or reuse by meeting environmental standards.

WHY CHOOSE US :

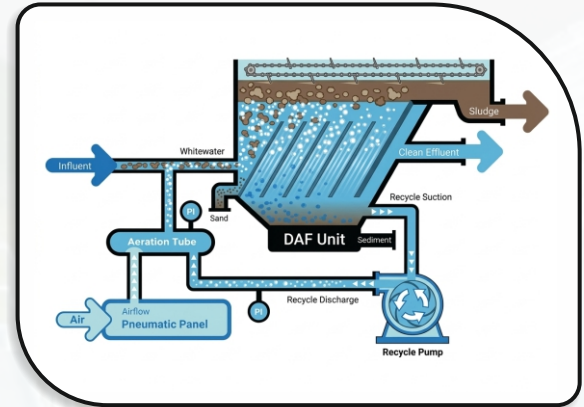
- Tailor-made ETP solutions for every industry
- Latest treatment technologies
- Strong project execution team
- Reliable after-sales & AMC support
- Cost-effective and energy-efficient systems

TREATMENT PROCESS :

- Screening : Removes large particles and debris
- Equalization Tank : Stabilizes flow & concentration
- Biological Treatment : Degrades organic pollutants (if required)
- Filtration & Disinfection: Final polishing for reuse/discharge
- Chemical Treatment : Coagulation & flocculation remove suspended solids
- Primary Clarifier : Settles sludge
- Secondary Clarifier : Separates biomass

KEY FEATURES :

- High removal efficiency for COD, BOD, TSS
- Handles toxic & high-load industrial wastewater
- Compact & customized design
- Low operational cost
- Automated control system
- Corrosion-resistant materials (MS / FRP / SS)



TECHNICAL SPECIFICATIONS :

- Capacity** : 5 KLD to 1000+ KLD
- COD Removal** : Up to 90–95%
- BOD Removal** : Up to 85–95%
- TSS Removal** : Up to 95–99%
- Technology** : Physico-chemical + Biological
- Discharge Norms** : As per PCB guidelines

APPLICATIONS :

- Textile & dye industries
- Pharmaceutical companies
- Chemical & petrochemical plants
- Food & beverage industries
- Electroplating & metal industries
- Paper & pulp industries

BENEFITS :

- Ensures compliance with pollution control norms
- Reduces environmental impact
- Enables water reuse in process
- Protects natural water bodies
- Improves corporate sustainability

MAIN COMPONENTS :

- Bar Screen Chamber
- Oil & Grease Trap
- Equalization Tank
- Flash Mixer / Flocculator
- Clarifier
- Pressure Sand Filter (PSF)
- Activated Carbon Filter (ACF)
- Aeration Tank (if biological treatment used)
- Sludge Handling System (Filter Press / Drying Bed)
- Dosing System
- Control Panel





ZERO LIQUID DISCHARGE (ZLD)

ABOUT THE SYSTEM :

A Zero Liquid Discharge (ZLD) System is an advanced water treatment solution designed to eliminate liquid waste discharge from industries. It recovers and recycles almost all wastewater, leaving behind only solid waste for disposal.

WHY CHOOSE US :

- Complete ZLD turnkey solutions
- Advanced & energy-efficient design
- Experienced engineering team
- Strong installation & commissioning support
- Reliable after-sales service & AMC

TREATMENT PROCESS :

Pre-Treatment (ETP) : Removes suspended solids, oil & chemicals
 Primary RO System : Recovers clean water
 Secondary RO / UF : Further increases recovery
 Evaporation (MEE / MVR) : Concentrates reject water
 Crystallizer : Converts dissolved solids into solid salts
 Water Recovery : Reusable water sent back to process

KEY FEATURES :

Achieves near 100% water recovery
 No liquid discharge to environment
 Advanced evaporation & crystallization technology
 Reduces freshwater consumption
 Fully automated & energy-optimized system
 Scalable and customized design



TECHNICAL SPECIFICATIONS :

Capacity : 10 KLD to 1000+ KLD
Water Recovery : Up to 95–99%
Technology : RO + MEE / MVR + Crystallizer
Feed Water : High TDS industrial effluent
Output : Reusable water + solid waste
Compliance : Meets strict environmental norms

APPLICATIONS :

Textile & dye industries
 Pharmaceutical companies
 Chemical & petrochemical plants
 Power plants
 Tanneries
 Food processing industries

BENEFITS :

Eliminates wastewater discharge completely
 Ensures compliance with PCB & environmental norms
 Recovers valuable water & salts
 Reduces environmental footprint
 Long-term cost savings through water reuse

MAIN COMPONENTS :

Equalization Tank
 Effluent Treatment Plant (ETP)
 Ultrafiltration (UF) System
 Reverse Osmosis (RO) System
 Multiple Effect Evaporator (MEE) / MVR
 Crystallizer
 Sludge Handling System
 Condensate Polishing Unit
 Control Panel & Automation System





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Powering Progress."Smart Water Systems.

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