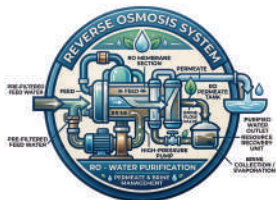




RENORA HYDROTECH PVT LTD

Empowering Industries with Purity



www.renorahydrotech.com

About US

At Renora Hydrotech Pvt. Ltd., we believe that clean water is not a luxury - it is a responsibility. As a leading EPC (Engineering, Procurement & Construction) company headquartered in Surat, Gujarat, we specialize in designing, building, and commissioning Effluent Treatment Plants (ETP) that help industries meet environmental compliance standards while contributing to a cleaner, sustainable future. Since our inception in 2017, we have been on a mission to make industrial wastewater treatment simple, efficient, and affordable for businesses across India.

Renora Hydrotech was born out of a vision that industries should never have to choose between growth and environmental responsibility. In 2017, **Mr. Jignesh Zalavadiya** - an engineer with deep expertise in water and wastewater treatment. Founded Renora Hydrotech with a clear purpose: to provide world-class ETP plant solutions to industries struggling with pollution control and environmental compliance. Starting from the textile and chemical hub of Surat, he saw firsthand how effluent discharge was becoming a critical challenge for small, medium, and large-scale industries alike. What began as a small team with a big dream has today grown into a trusted EPC partner for hundreds of industrial clients. With every plant designed and every litre of water treated, Renora Hydrotech reaffirms its commitment to engineering excellence and environmental stewardship.

We cater to a wide range of industries including textile, chemical, pharmaceutical, food processing, dyeing, paper, and manufacturing sectors across Gujarat and beyond.



Our Vision

To be India's most trusted EPC partner for industrial wastewater treatment — driving a future where every drop of industrial effluent is treated responsibly, recovered efficiently, and returned safely to nature.



Our Mission

To empower industries with innovative, reliable, and cost-effective effluent treatment and water management solutions that protect the environment, ensure regulatory compliance, and create long-term value for our clients and communities.

Our Core Values

- 1. Sustainability:** Every plant we build contributes to a greener, healthier planet
- 2. Engineering Excellence:** We never compromise on quality, precision, or performance
- 3. Client Partnership:** We work as an extension of your team, not just a vendor
- 4. Compliance & Integrity:** Transparent processes, honest timelines, regulatory assurance
- 5. Innovation:** Continuously adopting new technologies for better outcomes

Years in Business : 9+

Projects Completed : 150+

Industries Served : 6+

Total Client Count : 800+

RO (REVERSE OSMOSIS) PLANT

Reverse Osmosis (RO) Plant

Overview:

A Reverse Osmosis (RO) Plant is an advanced water purification system designed to remove dissolved salts, impurities, and contaminants from water using a semi-permeable membrane. It is widely used for producing clean, safe, and potable water for industrial & commercial purposes.



How It Works:

RO Plants use high pressure to push water through a specialized membrane. The membrane filters out impurities such as:

- Dissolved salts (TDS)
- Heavy metals
- Bacteria & viruses
- Chemical contaminants
- Unwanted odor & taste



Types of RO Plants We Offer:

- Commercial RO Plants: For hotels, hospitals, schools, etc.
- Industrial RO Plants: For manufacturing units, chemical industries, etc.

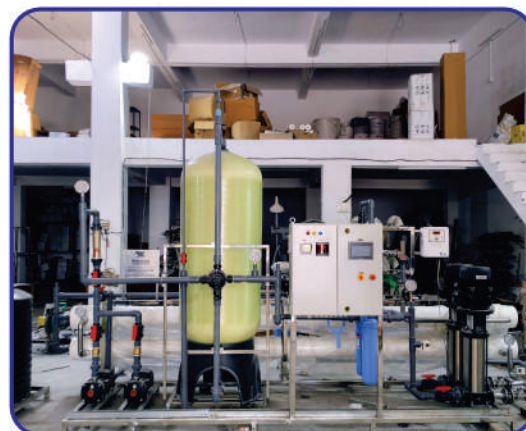


Key Features:

- High efficiency & low maintenance
- Custom capacity (from 500 LPH to 50,000+ LPH)
- Fully automatic & semi-automatic options
- Energy-efficient design
- Long-lasting membranes and components

Applications:

- Drinking Water Supply
- Food & Beverage Industry, Pharmaceuticals
- Textile & Chemical Industry
- Boiler Feed Water
- Educational Institutions & Corporate Offices



DISSOLVED AIR FLOTATION (DAF) SYSTEM

Overview:

The Dissolved Air Flotation (DAF) system is a highly effective solid-liquid separation technology used for wastewater treatment. It removes suspended solids, oils, grease, and other contaminants by injecting air into the water under pressure, creating microbubbles that attach to the particles and float them to the surface for removal.

Working Principle:

In the DAF process, air is dissolved in water under pressure and then released at atmospheric pressure in a flotation tank. The released air forms tiny bubbles that adhere to suspended matter, causing it to float. A mechanical skimmer then removes the floating sludge, while the clarified water flows out.

Key Features:

- High removal efficiency for suspended solids, BOD, COD, and oil & grease
- Compact design with low footprint
- Available in skid-mounted or containerized models
- Optional chemical dosing systems for enhanced performance
- Easy installation and low maintenance
- PLC-controlled operation for automation

Applications:

- Industrial Wastewater Treatment
- Food & Beverage Processing
- Dairy and Meat Processing Plants
- Textile & Dyeing Industry
- Oil Refineries and Petrochemical Plants
- Municipal Wastewater Pre-treatment
- Sludge Thickening

Benefits:

- Enhances overall efficiency of downstream treatment units
- Reduces load on biological systems
- Improves effluent quality to meet discharge norms
- Economical and energy-efficient operation
- Ideal for achieving Zero Liquid Discharge (ZLD)



COMMON EFFLUENT TREATMENT PLANT (CETP)

Renora Hydrotech designs and builds Common Effluent Treatment Plants (CETP) for industrial estates, GIDC clusters, and multi-unit industrial zones where effluent from several factories is collected and treated centrally. A CETP enables small and medium industries to meet pollution control norms without investing in individual full-scale treatment plants, reducing cost while ensuring consistent compliance.

Working Principle

Effluent from member industries is collected through a common conveyance network into an equalization tank, where flow and load variations are balanced. The wastewater then passes through primary treatment (screening, oil & grease removal, primary clarification), followed by secondary biological treatment (aeration and clarification) to remove organic load, and tertiary treatment (filtration, RO/MEE as required) to meet discharge or reuse standards.

Key Features

- Centralized treatment for multiple industrial units
- Handles variable and combined effluent loads efficiently
- Reduces individual treatment cost for member industries
- Designed to meet GPCB / CPCB discharge norms
- Modular design — scalable as the industrial estate grows
- PLC-based automation with SCADA monitoring option
- Compliant with Zero Liquid Discharge (ZLD) requirements where mandated

Treatment Stages We Offer

- Common Collection & Conveyance System
- Equalization & Primary Treatment
- Biological Treatment (Aeration, MBBR, SBR)
- Secondary Clarification
- Tertiary Treatment (Pressure Sand Filter, Activated Carbon Filter)
- Reverse Osmosis (RO) for TDS Reduction
- Multi Effect Evaporator (MEE) / ATFD for ZLD Compliance
- Sludge Handling & Disposal System

Applications

- Industrial Estates & GIDC Clusters
- Textile & Dyeing Clusters
- Chemical & Pharmaceutical Zones
- Common Industrial Parks
- SME Manufacturing Clusters

Benefits

- Cost-effective compliance for smaller industries
- Consistent effluent quality and monitoring



EFFLUENT TREATMENT PLANT (ETP)

Renora Hydrotech Effluent Water Treatment Plant for various types of wastewater and effluents to remove suspended solids, organic, inorganic, heavy metals, oil and grease. It is made at our facility according to the prevailing industrial standards. Also our team of inspectors conducts quality check on various parameters to be sure at our end, before delivering the product. Effluent Water Treatment Plant is offered at cost-effective prices.



Effluent Treatment Process

- Ultra Filtration
- Nano Filtration
- Reverse Osmosis
- Membrane Bio Reactors
- TDS Reduction
- TOC Removal
- Sludge Thickeners
- Sludge Digesters
- Conventional Sludge Drying Beds
- Manual and Automatic Filter Press
- Centrifuges
- Sludge Stabilization by Composting
- Conventional Solar Evaporation Systems
- Accelerated Spray Type Evaporation System
- Mechanical System
- Root Transpiration Beds
- Vermicomposting



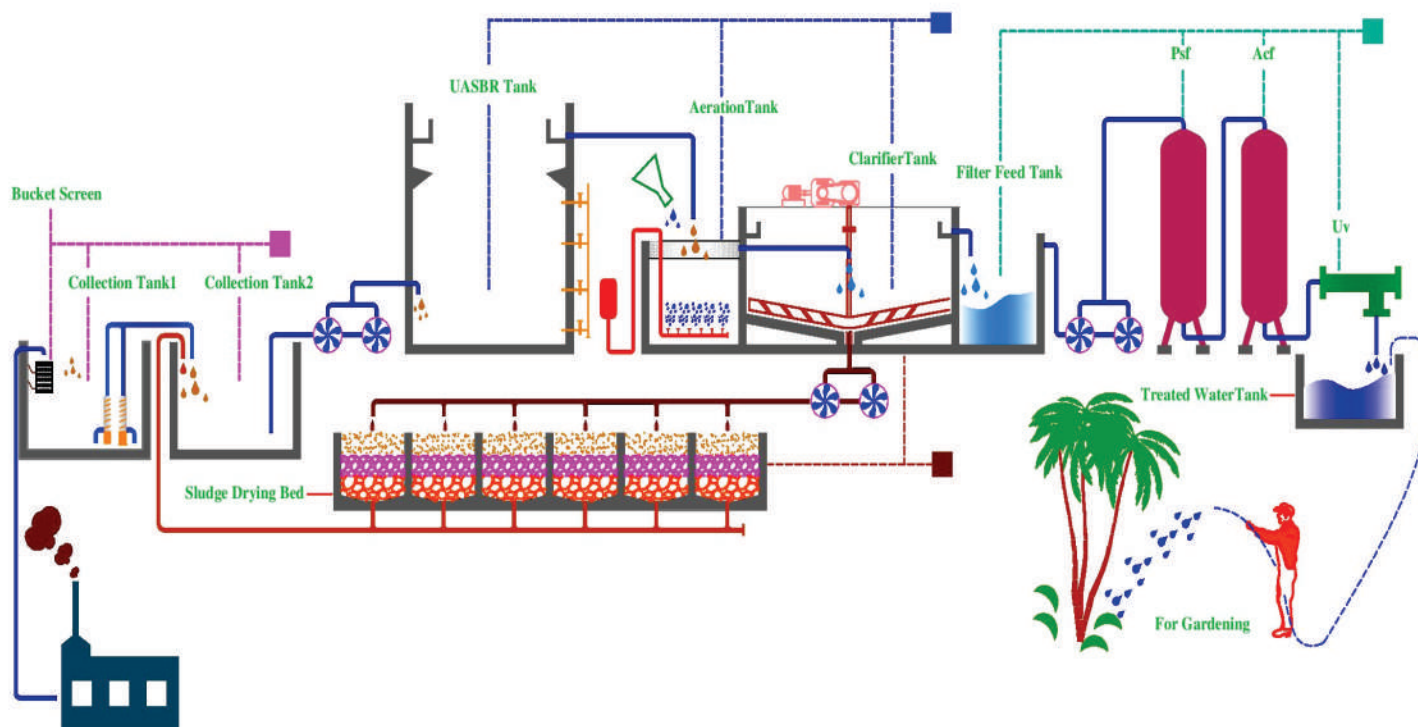
SEWAGE TREATMENT PLANT (STP)

Renora Hydrotech Sewage Treatment Plant is used to treat sewage created by Hostels, Industries, Hospitals, Colonies, IT Parks and commercial Buildings etc. We Manufacture and assure usage of qualitative materials in fabricating Sewage Treatment Plant up to industrial standards. It is easy to install & Operate, and requires low maintenance cost. It helps providing the society with a clean healthy environment around them. It can be availed at feasible prices.



Sewage Treatment Process

- Compact Sewage Treatment Plants
- Custom Built Sewage Treatment Units
- Bio Pack Media Based Treatment Plants
- UASB Based Sewage Treatment Plants
- FBBR I SBBR Based Sewage Treatment Plants
- Sullage Treatment Units
- Membrane Bio Reactor
- Rotating Biological Contactor - STP
- Manual Bar Screens
- Automatic Bar Screens
- Floating Oil Skimmers
- Belt Type Oil Skimmers
- Fat & Grease Traps
- pH Controllers
- Coarse Bubble Diffusers



MULTI EFFECT EVAPORATOR (MEE)

Overview:

A Multi Effect Evaporator (MEE) is an energy efficient system designed to concentrate solutions, especially in industries where large volumes of liquid waste need to be reduced. It operates on the principle of multiple stages ("effects") where vapor from one effect is used as the heating medium for the next, significantly reducing steam consumption.

Working Principle:

The MEE system consists of multiple vessels (effects) connected in series. The feed solution enters the first effect, where steam is used to evaporate water. The vapor generated in the first effect is then used as the heat source for the second effect, and so on. This cascading of heat reduces the overall energy required for evaporation.

Key Features:

- High thermal efficiency
- Lower steam consumption compared to single-effect systems
- Available in Forward Feed, Backward Feed, and Mixed Feed configurations
- Customizable for high TDS and high COD effluents
- Designed for ease of operation and minimal maintenance
- Made from corrosion-resistant materials

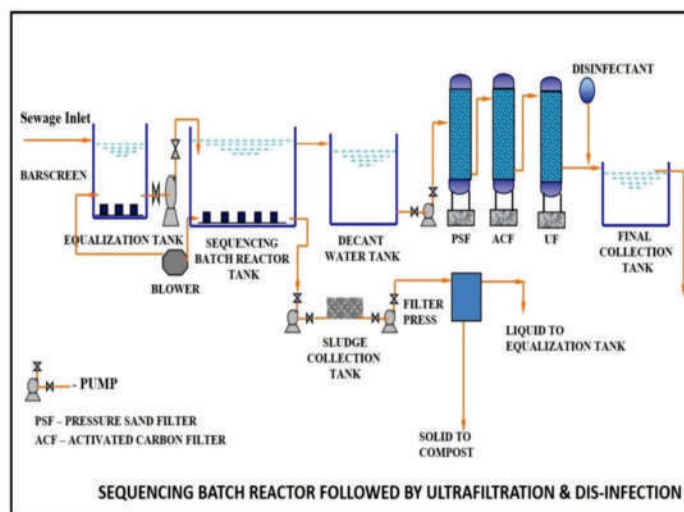
Applications:

- Pharmaceutical & Chemical Industries
- Textile & Dyeing Units, Food & Beverage Processing
- Distilleries, Effluent Treatment Plants (ETPs)
- Zero Liquid Discharge (ZLD) systems



Renora Hydrotech Services:

1. Textile Industries likes printing, Dyeing, Water jet looms etc. For treatment & recycling of waste water.
2. Automobile Industries for management and recycling of their waste water.
3. Grey water treatment and recycling in commercial and residential complexes.
4. Sewage water treatment And recycling in commercial and residential complexes.
5. Removal of heavy metal , fluoride from water & waster.
6. For primary treatment of Canal & Ground water.



WATER SOFTENING PLANT

A Resin-Based Water Softening Plant is designed to remove hardness-causing minerals such as Calcium (Ca^{2+}) and Magnesium (Mg^{2+}) from water through the Ion Exchange process. Hard water can cause scale formation in pipelines, boilers, cooling towers, RO plants, and industrial equipment, leading to reduced efficiency and increased maintenance costs. The softening system uses high-quality cation exchange resin, which replaces calcium and magnesium ions with sodium ions, producing soft water suitable for industrial, commercial, and domestic applications. Once the resin reaches its exchange capacity, it is regenerated automatically or manually using a brine (salt) solution, restoring its performance.

Applications:

- Boiler Feed Water Treatment
- Cooling Tower Make-up Water
- RO Plant Pre-Treatment
- Textile Industries
- Pharmaceutical Industries
- Chemical Processing Plants
- Food & Beverage Industries



SEA WATER SOFTENER

Renora Hydrotech's Sea Water Treatment System is designed to treat saline water and produce high-quality water suitable for commercial applications and agricultural irrigation. The system utilizes advanced treatment technology to reduce hardness, maintain optimum pH (where applicable), and remove dissolved salts and impurities, ensuring consistent water quality and reliable performance. Engineered with a compact and energy-efficient design, the system automatically adapts to varying feed water conditions while minimizing operating costs. Built using high-quality components and corrosion-resistant materials, it offers long service life, low maintenance, and dependable operation even in demanding environments.

Commercial Applications:

- Hotels & Resorts
- Hospitals
- Commercial Buildings
- Shopping Complexes
- Educational Institutions
- Restaurants & Food Processing Units
- Car Wash Facilities

Agricultural & Farming Applications:

- Irrigation for Farms
- Greenhouses
- Horticulture
- Drip Irrigation Systems
- Nursery & Landscaping
- Livestock Water Supply



NANO FILTRATION PLANT

A Nanofiltration (NF) plant is a pressure-driven membrane water treatment system that removes hardness, colour, bacteria, viruses, heavy metals, large organic molecules, pesticides, and divalent ions (such as calcium and magnesium) while allowing some monovalent salts (such as sodium and chloride) to pass through. It sits between Ultrafiltration (UF) and Reverse Osmosis (RO) in terms of filtration performance.

Applications:

- Pharmaceutical Industry
- Chemical Industry
- Hospitals
- Bio-technology Lab
- Food & beverage Industry
- Paper & Pulp Industry



ELECTRODE-IONIZATION

Electrode-ionization (EDI) is an advanced water purification technology that combines ion exchange resins, ion-selective membranes, and direct current (DC) electricity to continuously remove dissolved ions from water. Unlike conventional mixed-bed ion exchange systems, EDI does not require regular chemical regeneration using acid and caustic.

Applications:

- Pharmaceutical Industry
- Power Plants
- Electronics & Semiconductor Industry
- Chemical Industry
- Cosmetic Industry



ULTRA VIOLET SYSTEM

An Ultraviolet (UV) Water Treatment System is a chemical-free disinfection technology that uses ultraviolet light (typically UV-C at 254 nm) to inactivate harmful microorganisms in water. UV light damages the DNA and RNA of microorganisms, preventing them from reproducing and causing disease. Unlike chlorination, UV does not add any chemicals to the water or alter its taste, Odor, or pH.

Applications:

- Industrial RO plants
- Pharmaceutical Industry
- Food and Beverage Industry
- Hotel and Commercial buildings



DEMINERALIZATION SYSTEM (DM/ MB PLANT)

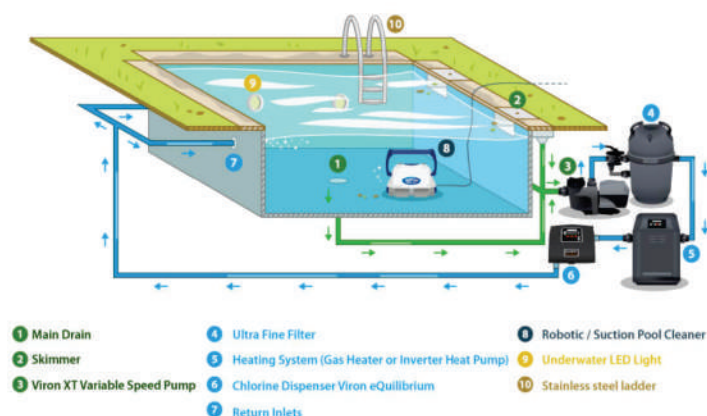
Renora Hydrotech demineralizers remove all cations and anions from water.

Renora Hydrotech demineralizers consist of acid / alkali proof pressure vessel with internal fittings and initial change of cation and anion exchanger. A set of regeneration equipment, hydraulic ejectors, acid and alkali tanks, conductivity meter provides pure total dissolved salts free water which is required at power projects, pharmaceutical sector, Battery water, Electronic industry, Textile/Process water applications.



SWIMMING POOL FILTER SYSTEM

The Series of Sand filters provide clean and clear water for commercial user. They produce more filtered water with less energy use. The fiberglass winding design enables the filter to be durable, deforming-proof and corrosion resistant design. We also provide complete swimming pool Turnkey project, with all required accessories.



ELECTROCOAGULATION TECHNOLOGY

This system incorporates a new generation of ec & chemical flocculation technology. It is an advanced and economical water treatment technology. It is highly effective for treating a broad range of wastewater.



LAB & EQUIPMENT

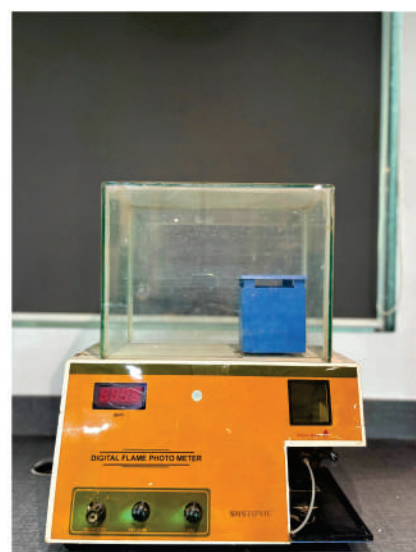
Characteristics of Polluted water (Domestic Sewage or Industrial Waste) before treatment or after treatment. See environmental chemistry and waster quality indicators.

" RAW WATER " QUALITY :

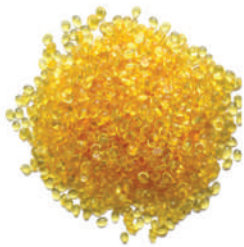
Characteristics of a water source prior to treatment for domestic consumption (Drinking water). See bacteriological water analysis and specific test such as turbidity and hard water.

" FINISHED WATER " QUALITY

Water treated at a municipal water purification. See bacteriological water analysis and category : Water Quality Indicators



A COMPLETE RANGE OF WATER TREATMENT SPARES



Resin



Bag Filter



Bar Screen



MBBR Media



Filter Press



SS Water Storage Tank



Dosing Chemical



Manual Multiport Valve



Dosing Pump



Digital MPV



All Types Of Pump



Membrane (LG)



SS MCF Housing



Oxygen Booster Pump



Blower



Rotameter



Micron Cartridge Filter



Agitator



Flocculation Chemical



Membrane Housing

SPARE PARTS AND CHEMICALS



AIR DIFFUSER



GLASS MEDIA



PANEL



FRP VESSEL



M.S VESSEL



PRESSURE SWITCH



S.S BAG FILTER

ACTIVATED CARBON FILTER MEDIA

- Utilized for removing odors, chlorine, and organic compounds
- Applied in both air and water purification systems



CARBON MEDIA



SAND MEDIA



AIR FLOW METER



ELECTROMAGNET SOFTENER



END CAP



FLOAT SENSOR



TDS PH METER



ACTIVE BIO CULTURE



PH BOOSTER FOR DRINKING WATER



HIGH PH RO MEMBRANE CLEANER



HYPO CHEMICAL



RO MEMBRANE CLEANER POWDER



LOW PH RO MEMBRANE CLEANER

OUR CLIENTS



Globela Industries Pvt. Ltd.



Shree Venkatesh International Limited



JB CRAFT PAPER
UNCOATED CRAFT PAPER & PAPER BOARD



NOUVEAU
JEWELLERY



RENORA HYDROTECH PVT LTD

Empowering Industries with Purity

- Turnkey Projects - ETP, STP, WTP
- ETP / STP - Operation & Maintenance
- DAF (Dissolved Air Flotation) Plant
- RO (Reverse Osmosis) Plant
- Mineral Water Treatment Plant
- Water Softening Plant
- Zero Liquid Discharge (ZLD)
- DM (Demineralization) Plants
- Water & Waste Water Chemicals
- Environmental Consultancy Like
NOC, CCA, EIA, EC.
- All Type of Water Solution



KEEP YOUR
CITY CLEAN



एक कदम स्वच्छता की ओर



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