



Manufactures & Exporters of water and  
Waste water treatment Equipment's

## Rejuvenating Water Reviving Industries

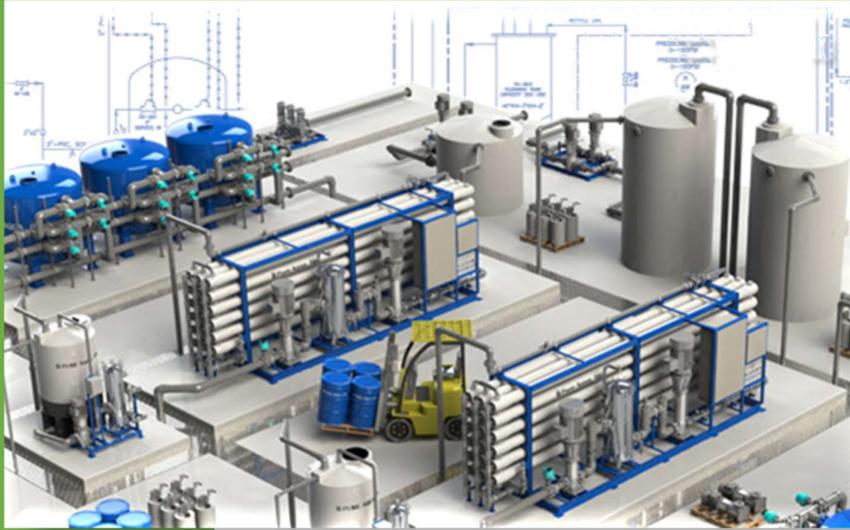


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Waste water treatment Equipment's

- ◆ Analytical
- ◆ Design
- ◆ Manufacturing
- ◆ service

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# INNOVATION MAKES US DIFFERENT

## About US

We are the manufacturers and exporters of waste water treatment equipment. We are specialized in Effluent treatment, Sewage Treatment and ZLD system (Zero Liquid Discharge) is the Engineering approach where all the water is recovered and contaminants are reduced to solid waste.

Our scope of work includes Design, Supply, Erection and Installation, Testing and Commissioning of Sewage/Effluent/ Waste Water/Water Treatment Plants Wealso offer Consultancy Services like Project Reports, Drawing Preparation and Liaison work with PCB for obtaining consents both to establish and to operate.

## Our Vision

We H2O aim to align our strategies with emerging industry standards and technological advancements to stay ahead of evolving challenges and provide reliable, efficient, and environmentally responsible water management solution.

## Our Mission

Empowering communities through innovative wastewater solutions, we are dedicated to purifying and recycling water with cutting-edge technology, fostering environmental resilience, and promoting a healthier, more sustainable world

“OUR WATER RESOURCES ARE PRECIOUS,  
RECYCLE TO KEEP THEM DELICIOUS”

## SERVICES

### Zero Liquid Discharge System



Zero Liquid Discharge System (ZLDS) is an advanced wastewater treatment approach designed to eliminate liquid waste discharge by recovering all wastewater as usable water and minimizing waste generation. This system employs a combination of cutting-edge technologies such as reverse osmosis, evaporation, crystallization, and other separation processes to treat and recycle wastewater completely.

### Activated Sludge process

This biological wastewater treatment process uses aeration and a biological floc composed of bacteria and protozoa to treat sewage or industrial wastewaters. The process involves oxidizing organic pollutants, producing a waste sludge, and separating it from the clear treated water. This is a common secondary treatment method where oxygen is pumped into the aeration tank to foster the growth of bacteria that break down organic matter.



### Secondary Clarifier

Secondary clarifiers play a pivotal role in treatment systems, particularly after biochemical oxidation stage. Their mission is to further purify treated wastewater by allowing microorganisms and fine particles to settle.

### Ultra-Filtration System



UF is effective in removing macromolecules, colloidal materials, and suspended solids from water, producing a filtrate that is relatively free from these contaminants. It's widely utilized in various industries and water treatment applications, including pre-treatment for reverse osmosis, wastewater treatment, and purification of drinking water due to its ability to achieve high-quality filtration and separate particles on a molecular level.

### Reverse Osmosis

The heart of the RO plant consists of semi-permeable membranes through which water is forced under pressure. These membranes allow water molecules to pass through while blocking contaminants such as dissolved salts, minerals, bacteria, and other impurities.

### Nano Filtration

NF is utilized for selective removal of specific ions, such as hardness ions (calcium and magnesium), certain organic compounds, and other contaminants from water.



## Multiple Effect Evaporator

A multiple-effect evaporation is an apparatus for efficiently using heat from steam to evaporate water. In a multiple-effect evaporator, water is boiled in a sequence of vessels, each held at a lower pressure than the last. Because the boiling temperature of water decreases as pressure decreases, the vapor boiled off in one vessel can be used to heat the next, and only the first vessel (at the highest pressure) requires an external source of heat and thus saves energy and overall operational cost.



## Agitated Thin Film Dryer

Industries such as pharmaceuticals, food processing, chemicals, and specialty materials utilize the ATFD for its ability to achieve high levels of moisture removal while maintaining product integrity and quality. Its efficiency, reduced energy consumption, and versatility make it a preferred choice for drying a wide range of materials in various industrial applications



## Filtration System

A process in which water passes through a watersystem that may include one or more filters for the purpose of removing turbidity, taste, color, iron or odor and certain chemicals such as chlorine. The design can be loose media tank-type systems or cartridge devices. In general, the process may include mechanical, adsorptive, neutralizing and catalyst/oxidizing filters.



## Operation & Maintenance

Operations and Maintenance are the decisions and actions regarding the control and upkeep of property and equipment.” Operations are the activities to make sure the plant produces the desired quality and quantity of treated water and meets the current legislation, while maintenance are the activities to make sure the plant equipment continues to work efficiently to achieve the operational objectives.



## Electrical Automation



Automation is one way to reduce huge energy costs associated with varieties of wastewater treatment processes. For instance, the blowers in the aeration basin can account up to 60% of the plant's energy costs. With automating the data collection process, one can achieve cost effectiveness in this area.

Automating a water treatment process saves your time when it comes to employee and labor resources.

Automation can help accomplish smart work with fewer resources.

## SPARES & CONSUMABLES SUPPLY

Our company guarantees to make delivery of bulk as well as detail orders of the product within the mutually decided timeframe. Only after getting approval from the quality experts, we make use of the inputs sourced from the vendors. We make sure that our entire range is of excellent quality and faultless. We understand how smooth functioning of the water and waste treatment systems is critical to your processes, and how any problem in these utilities can impact operations. To ensure optimal plant performance, genuine care is taken to ensure that only original spares are used at all times.



## Revamping Activities



- Effluent Treatment Plant
- Sewage Treatment Plant
- Waste Water Treatment plant
- Programming & Automation

## Sewage Treatment Plant

We are experts in manufacturing and supplying efficient and cost-effective sewage treatment plant for various sectors. We have qualified team who always strives to improve STP design towards a better environment and because of this, manufacturers and suppliers of sewage treatment plant which is more advantageous. 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.

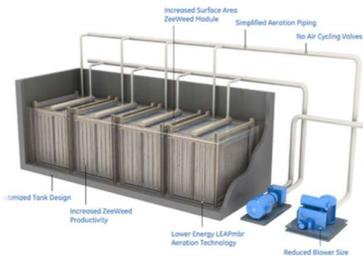


## Membrane Bioreactor

The MBR technology offers several advantages over conventional wastewater treatment. A Membrane Bioreactor (MBR) is a wastewater treatment technology that combines a biological treatment process with membrane filtration.

**1. Biological Treatment:** In an MBR system, microorganisms break down organic matter in the wastewater. These microorganisms consume and digest pollutants, converting them into simpler compounds.

**2. Membrane Filtration:** After biological treatment, the treated water is passed through a membrane filter. This membrane acts as a barrier, allowing only clean water molecules to pass through while retaining any remaining suspended solids, microorganisms, and other impurities. Methods, including better effluent quality, compact design, and reduced sludge production.



## Ozone Technology

One technology that has proven to be highly effective in treating wastewater is Ozonation. This ozone gas is dissolved in water (ozonate water) to kill microorganisms and remove organic and inorganic pollutants. The ozone acts as a powerful oxidizing agent, breaking down organic compounds and neutralizing harmful bacteria and viruses by a safe chemical reaction. It is a widely used technique in both industrial and municipal wastewater treatment.



## Sludge Management System Filter press, Belt press & Screw press



The working principle of filter presses is that slurry is pumped into the machine such that solids are distributed evenly during the fill cycle. Solids build up on the filter cloth, forming the filter cake; the filtrate exits the filter plates through the corner ports into the manifold, yielding clean filtered water.

## ETP and RO Lab Equipment's

- **Multi parameter** - instrument for measuring pH/TDS/DO/ORP
- **Turbidity meter** - Hand held/Bench top.
- **Thermos reactor** - Automatic COD Extraction with 12/24 wells
- **Spectro photometer** - Programmed for 120 Parameter
- **DO Meter** - With or without BOD Correction



## OUR FEW VALUABLE CLIENTS



KHANNA



BIRLA CENTURY \* DR REDDY LABORATORY \* PREMIER GROUP OF COMPANIES \* BANNARI AMMAN GROUP OF COMPANIES \* CCL COMPANY \* SHREE DURGA GROUPS OF COMPANY \* SECURITY PAPER MILLS \* KANNA PAPER MILLS \* CARIN INDIA \* VINAYAK COTTON MILLS \* VINOTH FABRICS \* GOGAD FABRICS \* PRANJUL \* MERCURY PROCESS \* GIMATEX \* CHEMITECH PROCESSORS \* DEV PRIYA PRODUCTS/ Overseas Clients - NORTEX (BOTSWANA) \* FERRERO GROUP COMPANY (EQUATOR) \* PT BUS (INDONESIA) \* A TO Z (TANZANIA)

Customer satisfaction being our driving force  
We provide services of the following:

- Installation, Start-up & commissioning
- Annual Maintenance Contract (AMC)
- 24\*7 'O&M', Service Contract
- Plant Up-gradation & Automation
- Plant & Process Audits, Water Audits & Consultancy
- Supply, Culture & use of microbes in ETP/STP
- Supply of all types of spares required to run ETP/STP/WTP

## VISIT OUR COMPANY!

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