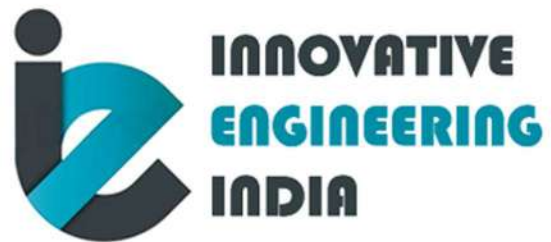


# Welcome To

## Innovative Engineering India

Aiming to be a leading water treatment company creating sustainable, efficient and innovative solution and having served more than 3000 happy customers by 2024 Till date we have commissioned 1055+ water treatment plants for over 800+ clients

**Innovative Engineering India** is a main maker, Dealer and provider of Industrial RO Plant, Residential Water Purifier, Waste Water Treatment Plant, Domestic Water Softener, Domestic RO, Industrial Water Softener, Activated Carbon Filters, Multi-Grade Filters, Pressure Booster Pumps, Iron Remover, Sand Filters, Dosing System, DM Plants, Resins (Cation/Anion) Chemicals. We have a Research and Development (R&D) focus in Faridabad, Delhi, India where we are constantly dealing with improving the nature of water and furthermore keep up the quality for sometime later. It was set up in 2017.



### Our Business Association





**Specifications:**

**Flow Range:** 1 KLD to 5 MLD  
**Materials:** FRP/SS/MSRL/MSEP and Civil construction.  
**Operation:** Semi - automatic / fully automatic plants  
**Service:** 24\*7 Support Available  
**Maintenance :** Available (Pan India)  
**Installation & Commissioning:**

**STP Plants Applications:**

*Residential Building*  
*Commercial Building*  
*Institutional Organization*  
*Hospitality Industry*  
*Hospital Building*  
*Municipal STP*  
*Public Transport System*  
*Big Public Events and Festivals*

**SEWAGE TREATMENT PLANT (STP)**

Sewage Treatment Plant (STP) has become a statutory requirement of all the State Pollution Control Boards. We provide economical, easy to install, and operate STP. Our STP are with precision designed to receive waste from domestic, commercial, and industrial sources and effectively remove materials that contaminate water quality. Our STP are well appreciated for their high-quality standards. We provide complete solutions for sewage treatment plants (STP), which includes biological, physical, and chemical treatment based on the latest technologies.

**OUR SERVICES, FEATURES AND BENEFITS**

Our qualified team of professionals successfully manufacture & supply Sewage Water Treatment Plants.

*Some of the key features of our STP being*

1. Easy to install, and come with a user-friendly interface
2. Compact design offers smooth functioning
3. Designed robustly, our sewage water treatment plants are highly durable
4. Come with weather-proof body along with the high anti-corrosive appeal
5. Confer unbeatable performance aspects, demanding low maintenance
6. Effectively remove contaminations from wastewater
7. Fully automated controlled system.
8. No delicate expensive membranes
9. Basic innovation utilized is enacted slop process

**>>> Technology of STP**



**EA STP Plant**  
*(Extended Aeration Sewage Treatment Plant)*



**MBR STP Plant**  
*(Membrane Bioreactor Sewage Treatment Plant)*



**SBR STP Plant**  
*(Sequencing Batch Reactor Sewage Treatment Plant)*



**MBBR STP Plant**  
*(Moving Bed Biofilm Reactor Sewage Treatment Plant)*



**Specifications:**

**Flow Range:** 1 KLD to 500 KLD  
**Materials:** FRP/SS/MSRL/MSEP and Civil construction.  
**Operation:** Semi - Automatic / Fully Automatic plants  
**Service:** 24\*7 Support Available  
**Maintenance :** Available (Pan India)  
**Installation & Commissioning:**

**ETP Plants Applications:**

Laboratory  
 Commercial Washing Units  
 Industry  
 Hospitality Industry  
 Hospital  
 Food & Beverages  
 Pharmaceutical Industry  
 Automobile Industry

**EFFLUENT TREATMENT PLANT (ETP)**

Water is one of the essential components in today's manufacturing processes. Water gets contaminated with various external substances like chemicals, dust, organic compounds, biological material, debris, dirt, grit, pollution, toxic, non-toxic materials, and polymers, also called Effluent. This water is not fit for environmental discharge and is harmful to all living beings. Effluent Treatments Plant (ETP) is a system that removes above given Effluent from industrial wastewater and makes it fit for Human use and fit for Environmental discharge.

**OUR SERVICES, FEATURES AND BENEFITS**

We have Effluent Treatment plants designed for small, medium, and large scale, i.e., from 1 KLD effluent treatment system to 500 KLD.

*Some of the key features of our ETP being*

1. Fully Customized Designed System.
2. Lowest Operation & Maintenance Cost.
3. Operator Friendly.
4. Easy to Upgrade.
5. Technology approved by CPCB. ( Central Pollution Control Board).
6. Applicable for CDM Benefit.
7. Reducing operating cost.
8. Compact plant requires very less space.
9. Removal of biodegradable organic matter and suspended solids.

**>>> Technology of ETP**



**ETP PLANTS**  
*(Effluent Treatment Plants)*



**CETP PLANTS**  
*(Common Effluent Treatment Plants)*



**INDUSTRIAL ETP PLANTS**  
*(Industrial Effluent Treatment Plants)*



**Compact / Portable ETP**  
*(Compact / Portable Effluent Treatment Plants)*



**Specifications:**

**Flow Range:** 250LPH to 100m<sup>3</sup>/hr

**Materials:** FRP/SS/MSRL/MSEP and Civil construction.

**Operation:** Semi - automatic / fully automatic plants

**Service:** 24\*7 Support Available

**Maintenance :** Available (Pan India)

**Installation & Commissioning:**

**RO Plants Applications:**

*Drinking Water Supply*

*Food Processing Units*

*Pharmaceutical Industries*

*Aquaculture*

*Hydrofolic Farming*

*Hotels Industries*

*Hospitals*

*Car/Automobile washing*

**REVERSE OSMOSIS (RO) PLANT**

RO is used to purify water both for Domestic and Industrial uses. RO water treatment is a physical separation process in which dissolved particles are filtered from contaminated water. We are a leading water treatment plant manufacture. We have manufactured and implemented 100s of customized RO water treatment plants as per client requirements. Systems involve various technologies depending upon client requirement and wastewater, such as Reverse Osmosis (RO), Ultra Violate (UV), Ultra Filtration (UF) systems.

**OUR SERVICES, FEATURES AND BENEFITS**

Our RO expert manufacturing and service team with 10+ year of experiance always ensure that your investment gets the best value for money.

*Some of the key features of our RO Plant being*

1. Easy to operate.
2. Cost effectiveness is guaranteed.
3. High performance.
4. Maximum dissolution of the contaminants.
5. Uninterrupted service.
6. Consume less power and are easy to install.
7. We provide various kinds of RO plants for varied purposes. Durability is never an issue with our plants.
8. Customized RO plants in flow ranges starting from 250 LPH to 100m<sup>3</sup>/hr capacity
9. Advanced membrane and pump protection attributes

**Technology of RO Plants**



**INDUSTRIAL RO PLANTS**  
*(Industrial Reverse Osmosis Plant)*



**SS RO Plant**  
*(Stainless Steel Reverse Osmosis Plant)*



**SEAWATER DESALINATION**  
*(Seawater Desalination Reverse Osmosis Plant)*



**INSTITUTIONAL RO PLANT**  
*(Seawater Desalination Reverse Osmosis Plant)*



#### **Specifications:**

**Flow Range:** 100 LPH to 100 KLPH (100m<sup>3</sup>)

**Materials:** FRP/SS/MSRL/MSEP and Civil construction.

**Operation:** Semi - Automatic / Fully Automatic plants

**Service:** 24\*7 Support Available

**Maintenance :** Available (Pan India)

**Installation & Commissioning:**

#### **DM Plants Applications:**

*Laboratory*

*Commercial Washing Units*

*Industry*

*Hospitality Industry*

*Hospital*

*Food & Beverages*

*Pharmaceutical Industry*

*Automobile Industry*



## **DEMINERALISATION WATER PLANT**

Demineralisation (DM) is the process of removing minerals salts from water by using the ion exchange process. With most natural water sources, it is possible to use Demineralisation and produce water of a higher quality than conventional distillation. Hydroflux Manufactures a Wide range of custom-built DM Water plants for industrial processed water applications, with inherent design to conserve water and save costs. The DM Plants are available in different sizes and materials, manually operated or fully Automatic, & ready to install.

### **OUR SERVICES, FEATURES AND BENEFITS**

Our demineralization water systems are designed to last for a more extended period because of the proper selection of construction and design material.

#### *Some of the key features of our DM Plants being*

1. The water produced by these units is of much higher quality than the regular distilled water we use.
2. Choose from DM plants of different sizes and boasting different specifications. Units designed & manufactured to be used in labs as well as for large, medium, and small-scale industries.
3. The purification process doesn't involve the use of any chemical. Additionally, the process also doesn't produce any dangerous waste products.
4. Units will not need much space for storage.
5. Using DM plants to demineralise water has been found to reduce the overall product cost at industrial manufacturing units.

## **MIX BED PLANT**

Our Mixed Based Plants have a long life, are iron corrosion Proof, and require less maintenance. We provide a wide range of products in Mix Bed Plant Category to our Clients. Hydroflux is a leading Manufacturer of Mix Bed Plant and Mix Bed Unit.

Mixed bed systems are mainly used in the water purification industry for polishing process water to achieve demineralized water quality. To exchange the ions charge (i.e. +ve to -ve or -ve to +ve).

A mixed bed ion exchanger uses two ion-exchange regenerative systems formed in beads shape. The mixed bed usually contains a strong acid cation exchange in addition to a strong base anion exchange resin. It completely removes the hydrogen and hydroxyl ions from the purified water.



**Specifications:**

**Flow Range:** 250LPH to 100m<sup>3</sup>/hr

**Materials:** FRP/SS/MSRL/MSEP and Civil construction.

**Operation:** Semi - automatic / fully automatic plants

**Maintenance :** Available (Pan India)  
Installation & Commissioning

**Water Softener Plants Applications:**

*Agriculture*

*Cooling Tower*

*Boiler Feedwater*

*Domestic Use*

*- Bathing, Washing etc.*

**WATER SOFTENER PLANT & SEND FILTER**

A hard water softener uses sodium chloride, also known as salt, to treat hard water. Hard water contains calcium, magnesium, manganese, and iron.

A water softener is a relatively simple appliance that is stocked with salt. In the water softening process, the water supply passes through the water softener over resin beds, rows of resin beads perform an ion exchange. The resin beads chemically attract the unwanted 'hard' mineral ions and exchange them with sodium ions. Softener resin is mainly strong acid Cation resin.

**OUR SERVICES, FEATURES AND BENEFITS**

We design and manufacture very efficient Water softeners that are effective in reducing the hardness.

*Some of the key features of our Water Softener being*

1. Automatic regeneration.
2. Increases the efficiency of appliances and the plumbing Systems.
3. Require less space.
4. Anticorrosive parts.
5. Efficaciously cleanses the harmful particles.
6. Clogging from pipes and vessels.
7. Light weight & compact. Low power consumption.



**INDUSTRIAL WATER SOFTENER PLANT**

**Specifications:**

**Flow Range:** 250LPH to 100m<sup>3</sup>/hr

**Materials:** FRP/SS/MSRL/MSEP

**Operation:** Semi - automatic / fully automatic plants

**Maintenance :** Available (Pan India)



**DOMESTIC WATER SOFTENER PLANT**

**Specifications:**

**Flow Range:** 250LPH to 50m<sup>3</sup>/hr

**Materials:** FRP/SS/MSRL/MSEP

**Operation:** Semi - automatic / fully automatic plants

**Maintenance :** Available (Pan India)



**Specifications:**

**Flow Range:** 250LPH to 100m<sup>3</sup>/hr  
**Materials:** FRP/SS/MSRL/MSEP and Civil construction.  
**Operation:** Semi - automatic / fully automatic plants  
**Maintenance :** Available

**Ultra Filtration Applications:**

Output of STP  
 Output of ETP  
 Inlet of RO  
 Output of WTP

We engineers and manufactures the most advanced Ultrafiltration (UF) systems for water treatment purposes that fit the needs of different industries and application such as chemical and pharmaceutical manufacturing, food and beverage processing, and wastewater treatment..etc.

**ULTRA FILTRATION SYSTEM**

Ultrafiltration Plant is used in both pretreatment and post treatment of water. We supply and install custom made ultrafiltration Water systems (UF Systems) up to 10m<sup>3</sup>/Hr, units can be semi or fully programmable and PLC controlled. These are extensively used in industrial water and wastewater treatment applications.

These units are next generation equipment, designed to minimize investment and maximize performance meeting stringent environmental protection requirements.

**OUR SERVICES, FEATURES AND BENEFITS**

Our Ultrafiltration systems are modular units fixed on a skid frame (Powder coated MS or SS) fitted with inlet and outlet and product water connections.

1. With ultrafiltration, all dirt particles, bacteria and viruses are filtered, which reduces the growth of biofilm. The eventual product of ultrafiltration is clean and safe (drinking) water.
2. The filtering effect is always active, regardless the power supply. Therefore it is a very effective and sustainable way of water filtration.
3. Every 24 hours the gatekeeper systems test themselves for membrane ruptures. If a breakage occurs, an alarm will be issued



**ULTRA FILTRATION SYSTEM FOR WASTE WATER**

**Specifications:**

**Flow Range:** 250LPH to 100m<sup>3</sup>/hr  
**Materials:** FRP/SS/MSRL/MSEP and Civil construction.  
**Operation:** Semi - automatic / fully automatic plants  
**Maintenance :** Available



**ULTRA FILTRATION SYSTEM FOR BORE WATER**

**Specifications:**

**Flow Range:** 250LPH to 100m<sup>3</sup>/hr  
**Materials:** FRP/SS/MSRL/MSEP  
**Operation:** Semi - automatic / fully automatic plants  
**Maintenance :** Available

## WATER TREATMENT COMPONENTS

RO, ETP, STP, DM, WATER SOFTNER, WWTP



TUBE SETTLER MEDIA



MECHANICAL BAR  
SCREEN



PLATE & FRAME TYPE  
FILTER PRESS



SLUDGE DEWATERING  
SCREW PRESS



AUTOMATIC MPV



MULTIPOINT VALVE



BELT TYPE OIL  
SKIMMER



COURSE BUBBLE  
DIFFUSERS



FLOW METERS



DOSING PUMP



ION EXCHANGE RESIN



PRESSURE GAUGE



TWIN LOBE AIR  
BLOWER



FILTER MEDIA



AGITATOR MIXER



ACTIVATED CARBON



FILTER CLOTHES



FINE BUBBLE  
DIFFUSERS



MBBR MEDIA



ETP & STP PANEL

## WATER TREATMENT COMPONENTS

RO, ETP, STP, DM, WATER SOFTNER, WWTP



BRINE TANK



HIGH PRESSURE PUMPS



RO WATER PUMP



WATER SOFTENER  
SALTS



FRP VESSELS



RO MEMBRANS  
(8040/ 4040)



PRESSURE PUMPS



BLUE HOUSING FILTER



BLUE HOUSING FILTER  
BAGS



MPV SPARES & ACCESSORIES



RO



CHEMICALS



SPUN FILTER



WOUND FILTER



GREENSAND



FilterPress Cloth



Filterpress



MZ10PLUS



BIRMMEDIA



PRESSURE PUMPS TANK

## OUR CLIENTS





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