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# Hydro Water Recycling Technology

**New Delhi**

(Since 2015)

**Water & Wastewater  
TREATMENT SOLUTION**





# Hydro Water

## Recycling Technology

### Company Profile

Established in the year 2015, at Delhi Jamia Nagar Okhla New Delhi, but our presence in the market from last 10 years in the field. HWRT is North India's leading Water Management firm having more than

5 year of experience in executing various challenging projects on a turnkey basis in the public and private sector. HWRT has an excellent track record in handling and offering efficient engineering solutions to complex environmental issues such as Water and Waste - Water Treatment, Solid and Hazardous Waste Management that various Industries, Hospitals, and Municipal Authorities are facing in India. HWRT executes projects across the region, having its registered office at Joshala jamia Nagar okhla New Delhi- 110025 since 2018.





**Product  
Range**



### **Water Treatment Plants**

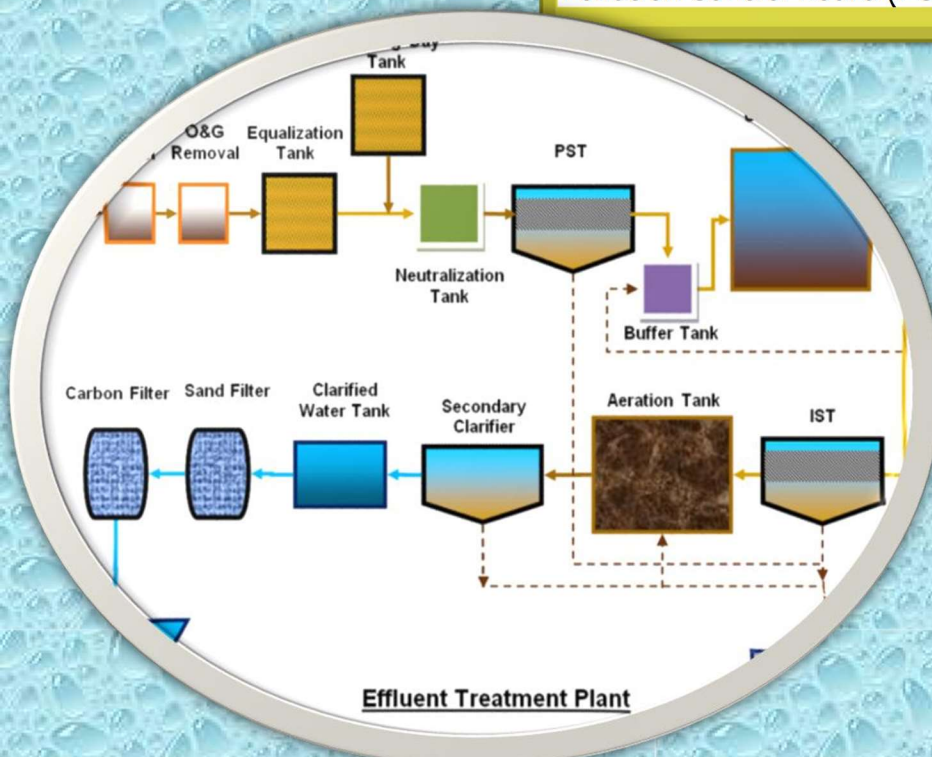
- I. Water Filtration Systems
- II. Water Softener Plants
- III. Water Demineralisation plants
- IV. Reverse Osmosis plant
- V. Electrodeionization





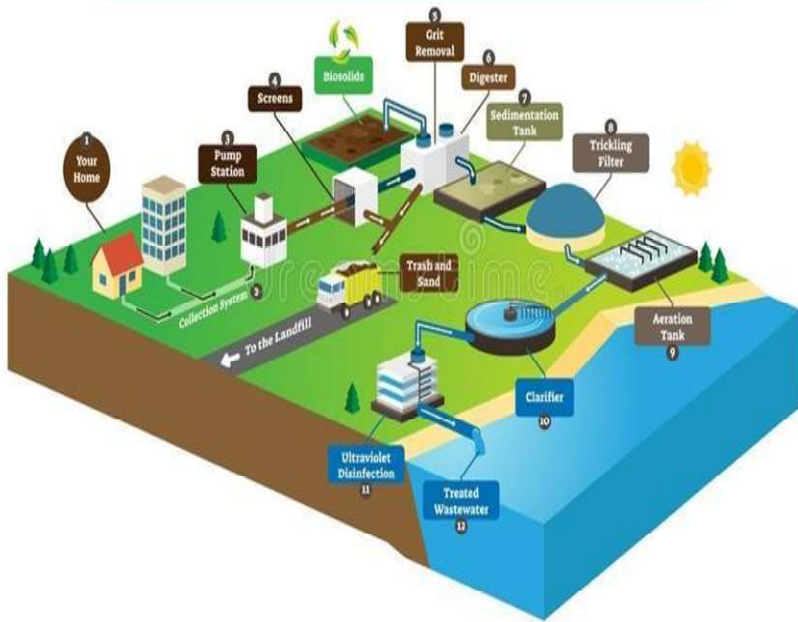
## EFFLUENT TREATMENT PLANT

We Design, Manufacture, Supply, Erection and Commissioning Effluent Treatment Plant (ETP) on The turnkey purpose behind various sorts and natures of wastewaters, effluents which merge advanced physical-engineered treatment structures with a tertiary cleaning system for the ejection of common, inorganic, oil and oil, generous metals and suspended solids. Our firm is engaged in offering Effluent Treatment Plants (ETP) to the respectable customers. Water, which is contaminated by Anthropogenic and Industrial/Commercial activities is treated by the offered range utilizing effective mechanisms, physio-chemical & biological treatments, solid-liquid separation and number of other processes. This range is acclaimed for its low power consumption and rapid installation. The up-degree, alteration in the current ETP structure is possible to achieve needed obliging standard set someplace around the Pollution Control Board (PCB).





# SEWAGE TREATMENT PLANT



## SEWAGE TREATMENT PLANT Based on (MBBR, SBR, MBR)

Moving Bed Biofilm Reactor (MBBR) sewage treatment plant is a basic and dependable technique for treating wastewater. Because of basic activities and simple sensibility, it is superior to ordinary techniques. MBBR utilizes a bunch of polyethylene biofilm bearers that move arbitrarily in the circulated air through a bowl containing wastewater. Since every transporter offers a powerful surface territory to provide food the autotrophic and heterotrophic microscopic organisms, this framework is valuable for a high-thickness populace of microorganisms. High degrees of unwavering quality and simplicity of activity are guaranteed by the MBBR framework.

Our MBBR sewage treatment plant is perfect for expelling physical, substance and organic contaminations from the wastewater created by the kitchen, latrine or enterprises. We offer a world-class arrangement that is conservative, both free and multipurpose. Regardless of whether you pick MBBR treatment or Underground sewage treatment plant, it tends to be introduced effectively in a little region. It is perfect for little and medium level use likewise considering lower establishment, activity and support costs. Introduce top-class MBBR plant by HWRT, and appreciate both free, low-support administrations.





# ULTRA FILTRATION SYSTEM (UF)



## Application

Removal of virtually all particulate matter, suspended solid bacteria virus and phylogenetic species from pharmaceutical and industrial process water removal of colloidal material (non-reactive silica iron aluminum etc.). Removal of high molecular weight organic, therefore the product stream will contain water ionic species and low molecular weight material, whereas colloidal matter particles bacteria viruses and pyrogenic species will be rejected by membrane. Hygienic drinking water hotels restaurant hospitals and residences, mineral water plants, high purity water for hospital for use in dialysis units as a retrofit to demineralization plant in industries to reduce regeneration chemicals

## Advantages

1. The most economical & efficient method of dissolved solid removal.
2. Easy to startup and uses very little space on solids in feed water
3. Can handle fluctuations of total dissolve solids removal
4. Easy to availability of spares and service
5. Short delivery periods





# INDUSTRIAL RO PLANT (Reverse Osmosis)



HWRTRO" Reverse Osmosis or R.O. is a crucial advance in a total water cleaning system. Water "HWRT RO" expels salts, microorganisms and numerous high atomic weight organics from water. In contrast to traditional filtration, "AJ RO" is a layer partition process in which, the feed water streams under tension into the semi penetrable film and isolates into two streams. The decontaminated water or pervade goes through the film, while the concentrate water or reject water, containing broke up and undisintegrated salts, that doesn't move through the layer, is released to deplete. The "HWRT"RO" turn around Osmosis frameworks are field demonstrated, profoundly dependable and a financially savvy answer for treating a wide scope of saline waters. Structured with adaptability, "HWRT RO" uses. Best in class winding injury turns around assimilation films to suit a given application. These frameworks can expel 90-98% of completely broke up salts. HWRT RO limit relies upon the water temperature, all-out disintegrated solids in the feed water, working weight and the general recuperation of the framework.

**Application: Hygienic soft water hotels, restaurant, hospitals, textile, Chemical, Pharmacy and Residences.**

## Advantages

- The most economical & efficient method of total hardness removal.
- Easy to startup and uses very little space on solids in feed water
- Can handle fluctuations of total dissolve solids (TDS) removal.
- Easy availability of spares and services.
- Short delivery periods

## Specifications

- Cartridge prefilter for FRP pressure vessels, spiral wooded membranes elements of polyamide type.
- Multistage pump made of SS316 Stainless steel, TEFC Pump Motor
- 316 SS stainless-steel High-pressure piping, Low feed pressure switch for pump protection,
- Motor starter with disconnect switch, motor contractor with thermal overload protection
- Sample valves for feed product and concentrate, Concentrate check valve.
- Product check valve, automatic feed shut off valve, cleaning connections, full control panel for instrumentation, pump discharge indicator, Feed and concentrated feed flow meters.
- Conductivity meters, power on light, fault alarm, post shut down system flush



# WATER SOFTENER PLANT



HWRT is a company of Water Softeners in India. HWRT is a leading brand in the field of Water Softeners. This water softening Plants are based on the proven ion exchange process. The Water Softeners are simple in operation, highly efficient and compact units designed to produce soft water efficiently and economically. The Water Softeners are available in different sizes and materials, manually operated or fully Automatic, & ready to install. The Water Softening Plants are available as standard models or custom-built versions for specific needs. The Water Softeners are available in different sizes and materials, manually operated or fully Automatic, & ready to install. The Water Softening Plants are available as standard models or custom-built versions for specific needs. A typical water softening Plant consists of pre-filters, Water Softener Vessel with

## Application

- Water Softening Plants for Boiler feed water
- Water Softening Systems for Cooling water make-up
- Water Softening Plants for Food and beverages
- Water Softening Plants for Hotels and restaurants
- Water Softeners for Air conditioning plants
- Water Softeners for Laundries

## Advantages

- Easy to install and operate
- Produces soft, non-scale forming water
- High capacity Cation exchange resin.
- Consistent treated water quality
- Low operating costs



## DM PLANT

DM Plant is an Ion exchange innovation used to expel salts (cations and anions) from water. Solvent synthetic mixes, when broken up in the water, become ionized; that is their atoms separate into decidedly and contrarily charged segments called particles. Think about regular table salt, sodium chloride. In its strong structure, this compound comprises of one sodium molecule (Na) and one chlorine particle (Cl) firmly coupled together (NaCl). At the point when disintegrated in water, nonetheless, the compound parts into two particles  $\text{Na}^+$  and  $\text{Cl}^-$ . A Typical two-bed DM Plant comprises of two FRP vessels associated in arrangement alongside its interior fittings. The principal unit comprises of high limit unequivocally acidic cation trade tar, which changes over positive particles of salt and replaces them with hydrogen particles to frame individual acids, which are caught up in the next vessel by emphatically essential anion trade sap. The water got by this procedure shows the conductivity of under  $30 \mu\text{S}/\text{cm}$  and Total Dissolved Solids under 10 ppm. Further high virtue water can be accomplished by Mixed Bed Deionizers, which are intended to create high immaculateness treated water. They can be utilized as cleaning units after two beds DM Plant to acquire high immaculateness water

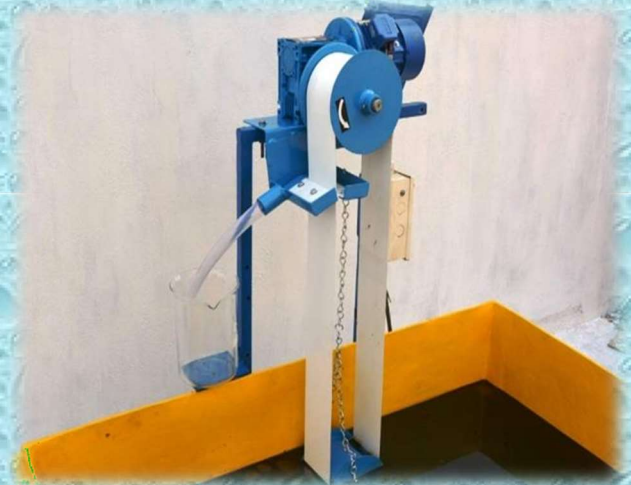




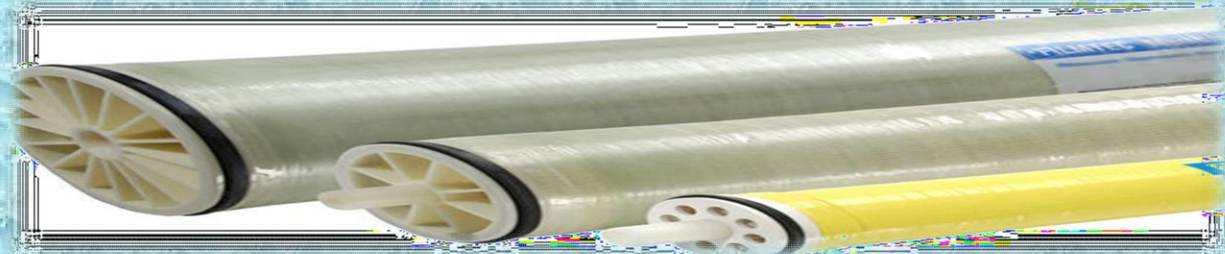
# SPARES

We are leading manufacturer and supplier of ETP, STP, WTP, DM PLANT SOFTENER PLANT Spares and accessories to our valued clients, our range of spares and designed and developed in strict confirmation with the various quality norms. Each of our product is designed to ensure that your reverse osmosis and de-salination plant installations operate at peak performance, moreover their compact design and performance enable easy installation and help in delivering satisfactory performance. As per specific requirement put forth by our client, we fabricate these spares in distinct sizes and specification.

**WE Offer the following types of spares.**









## WATER & WASTEWATER



Our water treatment chemicals are extensively used to make the water chemically safe and ideal for industrial domestic and household purposes, moreover these chemicals are added to water at various stages of water treatment, so as to prevent scale formation corrosion sludge accumulation, and forming, also our chemicals are quality-tested on various parameters and ensure 100% purity the chemical that we offer include RO plant ETP plant STP plant Cooling tower chemical, cleaning chemical and softener resin which can be availed at cost effective prices. We are to fetch plenty of customer in a very short span of time we firmly believe in maintaining long term relationship with our valuable customers through our reliable and inexplicable solutions to our customers we have gained victory over their trust



**THANK YOU**  
**Mr. S Naiyar**

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**HYDRO WATER RECYCLING TECHNOLOGY**  
**Total water Management**

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