



Right Water Systems

Water & Waste Water Solutions



Factory Plot No. 1161, Bisrakh Road near ID Factory
Chhapraula Noida (U.P.) 201306 India



rightwatersystems@gmail.com



www.rightwatersystems.com



9811213030



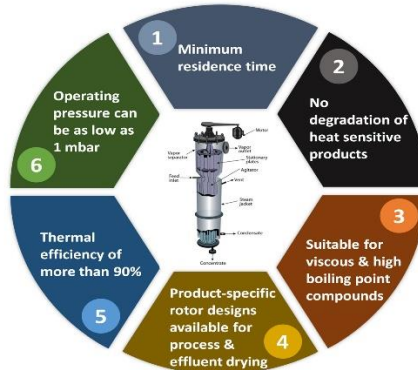
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Office address:- 48-B, Pocket C-1,
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Water that has been used in the home, in a business, or as part of an industrial process.

Right Water Systems "This water treatment plants & water recycling facility treats waste water so that it can be reused" please visit at this website www.rightwatersystems.com



Total Water Management

We are manufacturing Sales, Service & Supply Water & Waste Water Treatments Plant, Water Treatment Plant Fabrications, all Type Boiler & Water Treatment Chemical R.O. Plant, Pharmaceutical R.O. & D.M. Plant, Dialysis R.O. Plant, Effluent Treatment Plant (E.T.P.), Sewage Treatment Plant (S.T.P.), U.F. Plant, Zero Liquid Discharge (Z.L.D. Plant), Package Drinking Water Plant, Water Filtration System, Water Softener Plant, Swimming Pool Filtration System, all Type Boiler & Piping Works, Spare Sales, Annual Operation & Maintenance, etc.





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**Welcome
to
(Right Water Systems)
Present By,
Water Treatment Plants,**

We install entire Water Treatment Plant (Fully Automatic as well as Semi-Automatic) on Turnkey basis.

RIGHT WATER SYSTEMS
WATER & WASTE WATER SOLUTIONS

Certifications: -

**GST, MSME, TM,
ISO 9001:2015,
ISO 14001:2015,
ISO 45001:2018,**

We are an **ISO: - 9001:2015** Certified Company with Total Quality Management System,
ISO: - 14001:2015. Environmental Management Systems,
ISO: - 45001:2018 Occupational Health and Safety (OH&S) Management System.

Quality Satisfactions: - Right Water Systems is committed to the very best quality of its products to the complete satisfaction of its customers, our products and service quality are highly appreciated & accepted by the industry and customers. As a result, we always remain at the forefront of the industry and we have satisfied customers all over India.

E-Mail:-rightwatersystems@gmail.com

Website:-www.rightwatersystems.com

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About Us. RIGHT WATER SYSTEMS (RWS) has been become in the water and waste water Industry sector in India RWS is a trusted and professionally managed company, manufacturing, wholesaling, trading, retailer & service provider of various water solutions. Our offerings include Water Treatment System, Water Treatment Chemicals & Steam Boiler, and Thermic Fluid Heater Complete Range of Hot & Cool with Chemicals Division. by engineers having experience in the field of Water treatment systems for more than 12 Years among them various functional areas like design, manufacturing , marketing, projects & maintenance.

Right Water Systems Present Few Category of Water Treatment Plant:-

We install entire (Fully Automatic as well as Semi-Automatic) on Turnkey basis.

- 1) ETP Plant Manufacture (Effluent Treatment Plant) Capacity 5 KLD-1 MLD
- 2) STP Plant Manufacture (Sewage Treatment Plant Capacity 5 KLD-1 MLD
- 3) UF Plant Manufacture (Ultra Filtration Plant) Capacity 250 LPH-2, 00,000 LPH
- 4) RO Plant Manufacture (Reverse Osmosis Plant) Capacity 250 LPH-1, 50,000 LPH
- 5) ZLD Plant Manufacture (Zero Liquid Discharge Plant) Capacity 500 LPH-1, 50,000 LPH
- 6) DM Plant Manufacturer (Demineralization Plant) Capacity 250 LPH-1, 50,000 LPH
- 7) Swimming Pool Filtration System Manufacture Capacity 10,000 LPH-2, 00,000 LPH
- 8) Package Drinking Water Plant Manufacture Capacity 500 LPH-1, 50,000 LPH
- 9) Softener Plant Manufacture Capacity 500 LPH-1, 50,000 LPH

Water Treatment Chemicals (all Category of Water Treatment Chemicals)

All systems spares part available here any time

All type Boiler IBR & Non IBR, and Thermic Fluid Heater, Hot Air Generators, Hot Water Generators, Incinerators, Boilers Spare Parts, Pipe Line works, complete project & installations.

Steam Boilers (Cap. 100 kg -30 Ton/Hr),

Thermic Fluid Heater (Cap. 1 Lac k Cal/Hr to 25 Lac k cal/Hr.)

Hot Air Generators (Cap. 50000 kcal/Hr -20 lac k cal/Hr.)

Hot Water Generators (Cap. 50000 Kcal/Hr -25 Lac Kcal/Hr.)

Z.L.D. Process Salient Features: -

Total Water Management

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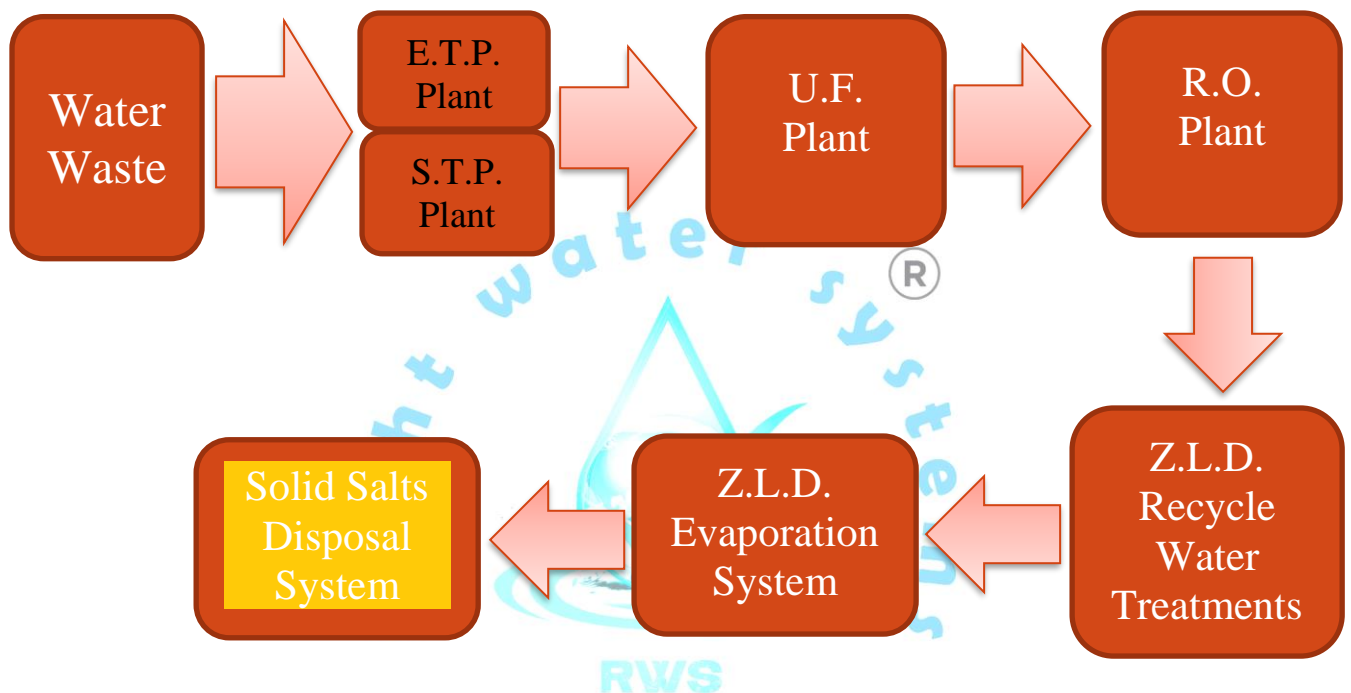


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ZLD (Zero liquid discharge) treatment process & ZLD System,

Good Water Recovery 95-98 %

Flow Chart representing complete unit process:-



Right Water Systems: - We are **ETP & STP Plant** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

ETP Plant



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Effluent Treatment Plant (ETP) are used by most of the companies in various industries to clean water and remove any toxic and non-toxic materials or chemicals from it so that that water can be reused or released in the environment which will do less harm to the environment. Effluent is wastewater coming from industrial and factory output. It contains harmful chemicals, toxic and non-toxic material in it.

Every industry must have an effluent treatment plant before disposing of the wastewater into drains. It is against pollution board norms to directly discharge water into the drain without filtering it.

These plants will not only save the industries from polluting the environment; but also allow them to use the final filtered water for their use.

Right Water Systems Suggestions:-Unnecessary water usage during the processing is eliminated, Makes your industry self-sustainable. Helps reduce the contamination of natural water bodies and make the environment safe for others. This is the cost-effective and environmental-friendly.

STP Plant



Sewage Treatment Plant (STP)

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Sewage is the wastewater coming from household, domestic and commercial outputs. They contain excreta of humans, animals, rainwater, and debris from sewers in them.

Equipment's List

- ✚ Acid dosing pump of PP construction
- ✚ Fine Bubble Vertical Diffusers.
- ✚ FBBR Random Bio-Media
- ✚ Effluent Feed Pumps (With motor and accessories)
- ✚ Secondary Clarifier Mechanism and FRP Well.
- ✚ Sludge Re-Circulation Pump.
- ✚ Motorized Rotary Bar Screen
- ✚ Motors for Blowers
- ✚ Electro coagulation skid
- ✚ Polymer dosing pump of PP construction
- ✚ Flash mixer
- ✚ Effluent Feed Pumps
- ✚ HRSC Clarifier Mechanism and FRP well.
- ✚ Screw pump
- ✚ Filter press
- ✚ PH indicator & controller
- ✚ Level controller
- ✚ Temperature indicator
- ✚ On-Line DO meter
- ✚ Inverter for Effluent Pumps
- ✚ Inverter for Aeration tank Blowers
- ✚ Lab Accessories
- ✚ Digital TDS meter
- ✚ Digital Portable pH Meter
- ✚ Digital Portable DO Meter
- ✚ PIPE LINES, VALVES AND ACCESSORIES
- ✚ ETP panel with PLC and D.C. pulse Power controller from CROSBY Controls, Inverters and control Accessories etc.



Ultrafiltration Plants

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Right Water Systems: - We are **Ultrafiltration Plant** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

About UF plants are built with hollow fiber outside-in or inside-out membranes capable of treating several flows of different sources and remove suspended solids, colloids and all kind of micro-organisms such as bacteria, viruses, protozoa, germs and larvae. Ultrafiltration can be used to reject virus, bacteria, pyroxenes, endotoxins, and particulates but not ionic species.

Hollow fiber configuration is widely used in the ultrafiltration processes. The benefit of this construction is that it allows for backwashing of the membrane when the filtrate or product flow rate has decreased due to accumulation of material on the membrane. The ultrafiltration membrane is capable of removing colloidal materials, fine suspensions, bacteria, virus, suspended material and large dissolved molecular weight organic materials.

Advantages of UF over Conventional Media Filtration

- ❖ Improved product quality
- ❖ Product SDI typically less than 1
- ❖ Removal of virus, and bacteria
- ❖ Removal of microbiological matter
- ❖ Removal of colloidal matter
- ❖ Colloidal Silica Reduction
- ❖ Improvement of downstream Reverse Osmosis (RO) performance
- ❖ Consistently treated water quality irrespective of changes in feed water quality

Applications of Ultrafiltration

- ❖ Pretreatment to RO system (brackish and seawater applications)
- ❖ Purification of surface and well water for portable applications
- ❖ Filtration of industrial waste
- ❖ Membrane Bio-Reactor
- ❖ Wastewater recycle and reuse

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RO Plant



Right Water Systems: - We are **RO Plant** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

Right Water Systems:- Reverse osmosis RO water treatment plant process is that allows the removal of unwanted particles (salts) from a solution. Reverse Osmosis water treatment plant is also used to treatment of water like removal of hardness, microorganism, salts and impurities in order to improve the color, odour, taste or properties of the fluid. "Cross flow" is the advanced Reverse Osmosis RO water treatments Technology that allows a partially semi permeable Reverse osmosis RO membrane to clean itself continually. As some of the fluid passes through the membrane, the rest continues downstream, sweeping the rejected species away from it. Reverse Osmosis water treatment plant process requires a HPP (high pressure pump) to push the fluid

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through the membrane like high pressure and large driving force. For Brackish water approximately 10 to 20 bar applying as a osmotic pressure in solution to separate salt water as rejection and good water as product.

As concentration of the salts (fluid) being rejected increases, so does the driving osmotic force. Reverse Osmosis water treatment system is used to reject, sugar, bacteria, salts, proteins, particles, dyes, and other constituents. Separation of ions with reverse osmosis water treatment filtration is aided by charged particles. This means that dissolved ions that carry a charge, such as salts, are more likely to be rejected by the membrane . The larger the charge and the particle, the more likely it will be rejected.

Right Water Systems R.O. Water Treatment Plant Designs Process

- **Pre-chlorination** : This is made to disinfect the raw water from any infections.
- **First Filtration**: By the pressure Sand filters to remove Turbidity and Suspended solids.
- **De-chlorination dosing**: To remove the remaining Chlorine after the pressure sand filter.
- **Antiscalent dosing**: It is very important to prevent Calcium Sulfate from scaling.
- **Acid dosing**: It is very important to prevent calcium carbonate from scaling by Sulfuric acid 98%.
- **Second filtration**: It is by the cartridge filter (5micron) is important to remove any particles exceed 5 micron size.
- **Feeding water** High TDS raw water will pass through the semi permeable membrane under the high pressure, after boosting with high pressure (Osmotic Pressure) approx 12 – 16 bar the membrane output water will treated and reduce to the required TDS .
- Adjusting PH value by Sodium hydroxide 49%
- Post chlorination dosing for disinfection by Sodium hydrochloride 12%

R.O. Plant, Related Topics:

1. [Some Important guide to Design Reverse Osmosis plant](#) In the Desalination of water mainly using method is Reverse...
2. [Water Treatments Plant Manual](#) Water Treatments Plant Guide Operation and Maintenance manual of Water...
3. [Water Treatment Filters](#) HIGH RATE WATER TREATMENT FILTERS High rate water treatment filters,...
4. [Chemical Injection Of RO Plant](#) Antiscalent Chlorination and De chlorination Sulfuric acid Caustic Soda Chlorination...
5. [Water Treatment Filtration](#) Reverse Osmosis water treatment filtration Electrolysis water treatment filtration Deionized...
6. [Troubleshooting of RO plant Pre filters](#) BACKWASH PROCEDURE Daily the Sand filter should be taken Backwash...
7. [Water Treatment Coagulation](#) Water Treatment Coagulants Coagulant water treatment chemicals come in two...

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8. Primary Water Treatment SCHEMATIC DIAGRAM OF PRIMARY TREATMENT The first stages of waste...

Pharmaceuticals RO Plant



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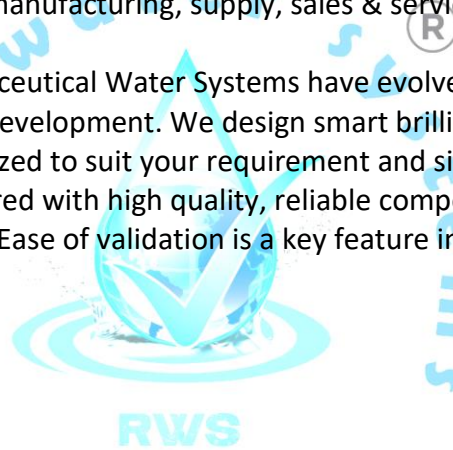
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Right Water Systems: - We are **Pharmaceutical Water System** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

Right Water Systems: - Our Pharmaceutical Water Systems have evolved as a result of years of experience and constant technical development. We design smart brilliant ABS (Anti Breaking systems) are customized and optimized to suit your requirement and site conditions. Our systems combine optimized design, engineered with high quality, reliable components with failsafe automation that is easy to operate. Ease of validation is a key feature in our system design and engineering

- ❖ RO-EDI System
- ❖ Ultrafiltration
- ❖ Pre-Treatment
- ❖ Storage & Distribution
- ❖ Distribution Piping
- ❖ Multi-Effect Distillation
- ❖ Pure Steam Generators
- ❖ Point-Of-Use Cooler
- ❖ Sterile Mixing and Blending
- ❖ Sterilizers
- ❖ CIP Systems



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ZLD Plant & Salt Recovery System



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Right Water Systems: - We are **ZLD Plant** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

Right Water Systems: - well-designed Zero Liquid Discharge System (ZLD System) is used to minimize the volume of liquid waste that requires treatment, while also producing a clean stream suitable for use elsewhere in the plant processes.

Right Water Systems: - common ZLD approach is to concentrate the wastewater through well designed multiple membrane systems and then dispose of it as a liquid brine or further crystallize the brine to a solid. A typical evaporator (MEE) uses tube-style heat exchangers. The evaporated water is recovered and recycled while the brine is concentrated to a higher solids concentration. Concentrated brine treatment is done in a crystallizing system, such as Agitated Thin Film Dryer (ATFD) or a spray dryer. Crystallized solids in most of the cases is categorized as hazardous waste and disposed off periodically. We offer our clients Zero Liquid Discharge Systems designed on advanced user friendly technologies.

The chemistry of the organic salts has been taken into account for selection of MEE type, Pusher Centrifuge and Material of Construction. From the design inputs, parameters and analysis of the given situation the most suitable configuration of System is Quadruple Effect Forced Circulation Evaporator followed by Pusher Centrifuge for recovery of salts.

- Quadruple Effect Forced Circulation Evaporation Unit
- Pusher Centrifuge Dryer

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The effluent will be evaporated to reach a higher concentration of the Total Dissolved Solids. Quadruple Effect Forced Circulation Evaporator has been selected to concentrate solution to 40% (TDS). This concentrated effluent will be pumped to the Pusher Centrifuge for recovery of solids. Pusher Centrifuge further concentrates the effluent feed to the desired Solid Salts (>95 % TDS) which is stored in drums and disposed-off for land filling as per the guidelines.

MEE Plant & Salt Recovery System

Multi Effect Evaporator commonly uses sensible heat in the condensate to preheat liquor to be flashed. In this unit high TDS reject water is heated and circulated to increase the salt concentration. It is very expensive to operate as it requires steam for working so we pass only 2-3% of effluent to MEE.



Salient Features:-

- Low steam consumption
- Low power consumption
- MEE can operate on any hardness value
- Long equipment life
- No chemical treatment required

SALT DRYER & ATFD UNIT

It is used to evaporate the residue water from MEE concentrated liquid and generate dry salt for dispose. MEE concentrated liquid have large amount of water content which is not possible to dispose so salt dryer is used after MEE to reduce water content from MEE concentrated liquid.

SALT RECOVERY SYSTEM

It is a special application membrane unit with suitable process molecular weight cutoff (MWCO) for purification of brine solution and removal of other residual impurities.

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In first stage specific type of NF membranes are used for recovery of brine from RO reject. We get pure brine solution with total hardness <50 and TDS value of 10 gpl.

In second stage high recovery sea water membranes are used to concentrate the brine solution and recovered brine water is used up to 120 gpl for recycling purpose.

Third stage is for polishing of concentrated brine solution and removal of residual hardness from it. The pure brine solution obtained is then converted into solid form i.e. used back in the process with the help of cooling crystallizer.

Cooling crystallizer is a system that has excellent thermodynamic efficiency with high performance & Low maintenance.

DM MB Plant



Right Water Systems: - We are **DM Plant** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.



Total Water Management

We are manufacturing Sales, Service & Supply Water & Waste Water Treatments Plant, Water Treatment Plant Fabrications, all Type Boiler & Water Treatment Chemical R.O. Plant, Pharmaceutical R.O. & D.M. Plant, Dialysis R.O. Plant, Effluent Treatment Plant (E.T.P.), Sewage Treatment Plant (S.T.P.), U.F. Plant, Zero Liquid Discharge (Z.L.D. Plant), Package Drinking Water Plant, Water Filtration System, Water Softener Plant, Swimming Pool Filtration System, all Type Boiler & Piping Works, Spare Sales, Annual Operation & Maintenance, etc.



Right Water Systems

Water & Waste Water Solutions



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DM Plant

De-Mineralization is the process of removing mineral salts from water by using the ion exchange process. With most natural water sources it is possible to use De-Mineralization and produce water of a higher quality than conventional distillation. De-mineralized water or de-ionized water is water devoid of its mineral ions. Water in its natural form typically contains mineral ions like anions (Sulphate, chloride, nitrate, etc.) and cations (iron, calcium, sodium, copper, etc.).

The main purpose for which a DM plant is used is preventing metal oxidation and scale formation.

Right Water Systems DM Plant Process:-

As mentioned above, the salts and minerals present in water carry negatively charged ions called anions and positively charged ions called cations. Both these types get attracted by their counter ions i.e. ions carrying the opposite charge.

These plants feature an IX column containing resins that consist of plastic beads. During the process of de-mineralization, the ionic functional group gets attached to these beads. These are functional groups that work by holding the ions carrying the opposite charge loosely through a process called mutual electrostatic attraction.

When an ion-exchange cycle is underway, water containing dissolved ions comes in contact with the resin. Ions present in the solution exchange their place with those present on the beads. These ions remain attached to the functional groups of the resins even when the resulting liquid gets drained away. Ion exchange occurs when an ion possesses a greater affinity towards a functional group than the ions the group already carries. The type of ionic contaminants found in the group will decide whether the process would need cationic resins or anionic resins.

In most ion-exchange reactions, the exchange replaces the contaminant ions with less objectionable ions. For instance, the ion exchange sodium softening process is carried out to eliminate hardness ions like Mg^{2+} or Ca^{2+} from the solution and replace them with less harmful sodium ions or Na^{+} . Once the process is over, the solution will have little or no hardness but will have a higher concentration of Na^{+} .

The above changes are acceptable for certain applications. However, some procedures require almost 100% removal of the dissolved solids. This makes DM plants such important additions to facilities requiring complete removal of these unwanted solids. A DM plant exchanges cations in feed water with hydrogen ions and anions get exchanged with hydroxyl ions. This results in the formation of water. Most plants come with a mixed bed or two-bed configuration. Read on to know about them.

TWO-BED ION EXCHANGE:

A dual bed or two-bed ion exchanger use two (or more) ion-exchange columns or resin beds for treating a stream. Each of these beds contains a different ion exchange resin. During two-bed de-mineralization, a SAC or strong acid cation resin is used for treating a stream. This helps in capturing the cations dissolved in the water and enables the release of hydrogen ions.

Total Water Management

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The mineral acid solution you will get as a result will automatically get directed towards the SBA or strong base anion resin bed. When treated in the second resin bed, the DM plant will remove all the anionic contaminants present in the solution and result in the release of hydroxide ions. The combination of these hydroxide ions and the existing hydrogen ions will result in the formation of water.

The TDS of the stream thus forms will become low. What's more, the water will also have an almost neutral pH. However, there's one issue you must be careful about; dual bed units usually result in sodium leakage, which may affect the water quality. You should be extra cautious when demineralizing streams with low pH and/or high TDS.

MIXED-BED ION EXCHANGE:

The water quality offered by mixed-bed ion exchangers is much higher than the dual-bed units. The biggest highlight of these units is that they use a mix of multiple ion exchange resins. This mixture is kept in a single ion-exchange column. When the unit is used to treat a stream, the anion and cation exchange reactions occur simultaneously. This unique working procedure of the DM water plant addresses the issue of sodium leakage effectively.

Here, you must note that while DM plants equipped with mixed-bed ion exchangers produce water of extremely high quality, they also use a more complex resin generation procedure

PRINCIPLE

Every DM plant works based on a common principle. They work to remove minerals and other contaminants from water using the ion exchange method. The purity of water would depend on the kind of DM water plant you are using

APPLICATION OF DM PLANTS:-

More and more industries have started to use DM plants to prepare a hefty resource of demineralized water. However, some industries have been using these units since their discovery. These are industries that need a high level of water purity. Here are some examples:

- Industries that require the use of makeup water or feed for operating high-pressure boilers
- Food & beverage industries (they prepare rinse water using these plants)
- Electronic goods manufacturers

DM PLANT SPECIFICATIONS:-

Some of the most notable specifications of top DM plant models include:

- Automatic time-based regeneration
- DM resin of the highest quality
- The user-friendly inline configuration that enables easy installation and upkeep



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- A combination of bottom collection and top distribution systems crafted out of laser-cut strainers embedded on strainer plates lined with rubber.

ADVANTAGES OF DM PLANTS:-

If you use a unit made by a top DM plant manufacturer, you will enjoy the following benefits:

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

Swimming Pool Filtration Systems



Total Water Management

We are manufacturing Sales, Service & Supply Water & Waste Water Treatments Plant, Water Treatment Plant Fabrications, all Type Boiler & Water Treatment Chemical R.O. Plant, Pharmaceutical R.O. & D.M. Plant, Dialysis R.O. Plant, Effluent Treatment Plant (E.T.P.), Sewage Treatment Plant (S.T.P.), U.F. Plant, Zero Liquid Discharge (Z.L.D. Plant), Package Drinking Water Plant, Water Filtration System, Water Softener Plant, Swimming Pool Filtration System, all Type Boiler & Piping Works, Spare Sales, Annual Operation & Maintenance, etc.



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Right Water Systems: - We are **Swimming Pool Filtration System** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

Right Water Systems: - The purpose of swimming pool filtration is to clarify the water, which contains suspended particles, by passing it through a porous material. It also prevents the proliferation of algae. It consists of closed-circuit circulation by a pump and a certain quantity of filtration equipment (see below).

Right Water Systems, minimize various issues swimmers struggle with everyday and provide an impeccable array of solutions. Our organization helps swimming pool manufacturers and other related customers with an unmatched range of products that suits their growing needs. We are bringing forth exclusive swimming pool products for many customers such as schools, hotels, resorts, fitness clubs, residential buildings, health institutes, etc. Our pristine array of products is in perfect sync with evolving needs of these customers.

Right Water Systems We are importing an impeccable-grade of offerings from China and Australia for providing innovative solutions to our clients in the industry. We also assure accessibility of fine quality swimming pool products. Our company suffices needs of various users in the most resourceful manner as a famed importer of Inflatable SPA Pool, Bubble Pool Cover, Liners, Heat Pumps, Robotic Pool Cleaner and varied other items. Our organization makes sure users' needs are speedily processed.

Swimming pool equipment list for pool owners:

- Telescopic Pole
- Skimmer Attachment
- Pool Brush Attachment
- Vacuum Head



Total Water Management

We are manufacturing Sales, Service & Supply Water & Waste Water Treatments Plant, Water Treatment Plant Fabrications, all Type Boiler & Water Treatment Chemical R.O. Plant, Pharmaceutical R.O. & D.M. Plant, Dialysis R.O. Plant, Effluent Treatment Plant (E.T.P.), Sewage Treatment Plant (S.T.P.), U.F. Plant, Zero Liquid Discharge (Z.L.D. Plant), Package Drinking Water Plant, Water Filtration System, Water Softener Plant, Swimming Pool Filtration System, all Type Boiler & Piping Works, Spare Sales, Annual Operation & Maintenance, etc.



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- Vacuum Hose
- Pool Filter (Cartridge, Sand, or DE Filter)
- Pool Filter Media
- Pool Pump
- Pool Heater
- Chemicals (Chlorine, pH, Alkalinity, Algaecide, Metal Sequesterate)
- Optional: Caulk
- Optional: Chemical Feeder
- Optional: Automatic Pool Cleaner

Package Drinking Water Plant



Right Water Systems: - We are **Package Drinking Water** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

Right Water Systems: -What Is 'Packaged' Drinking Water? It is water derived from varied sources including surface, ground or sea and subjected to treatment like decantation, filtration (including aeration filtration with membrane filter, cartridge filter, sand filter, and activated carbon filtration), demineralization, mineralization and reverse osmosis etc.

FULLY AUTOMATIC & SEMI-AUTOMATIC MACHINE

Total Water Management

We are manufacturing Sales, Service & Supply Water & Waste Water Treatments Plant, Water Treatment Plant Fabrications, all Type Boiler & Water Treatment Chemical R.O. Plant, Pharmaceutical R.O. & D.M. Plant, Dialysis R.O. Plant, Effluent Treatment Plant (E.T.P.), Sewage Treatment Plant (S.T.P.), U.F. Plant, Zero Liquid Discharge (Z.L.D. Plant), Package Drinking Water Plant, Water Filtration System, Water Softener Plant, Swimming Pool Filtration System, all Type Boiler & Piping Works, Spare Sales, Annual Operation & Maintenance, etc.





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Various capacity Machines are available

24 Bottles / min

30 Bottles/min

40 Bottles/min

60 Bottles/min

90-120 Bottles/min

150 / 200 / 250 / 300 Bottles per min and more

Machines are supplied with standard accessories & Machine like:-

- ❖ RO Plant
- ❖ UV System
- ❖ Ozonator
- ❖ S.S. Storage Tank
- ❖ S.S. Micron Cartridge Filter
- ❖ Add. Alkaline Water System
- ❖ Add. Mineral Water System
- ❖ Rinsing Filling And Capping Machine
- ❖ 200 ML to 2000 ML Bottling Machine
- ❖ 20 Ltr. Jar Machine
- ❖ Cup/Glass Fill-Seal-Cut Machine
- ❖ Pouch Packing Machine
- ❖ Shrink Machine
- ❖ Pet Blow Machine
- ❖ Batch Coding Machine
- ❖ BOPP Labeling Machine (biaxially oriented polypropylene)
- ❖ Labs Micro & Biological

Water Softener Plant



Total Water Management

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Right Water Systems: - We are **Water Softener Plant** designing, build and turnkey water treatment plant manufacturing, supply, sales & service provide.

Right Water Systems:- Water Softening Plants Water is considered 'hard' when it has excessive levels of calcium and magnesium dissolved in it. Hard Water can lead to the following Water problems

- ❖ Scale build-up in pipes, resulting in decreased flow rates
- ❖ Scale build-up on heating and cooling systems, leading to increased electricity costs and breakdowns.
- ❖ White film on glass surfaces and staining on Water taps
- ❖ Increased laundry costs due to hard Water reacting with soap and laundry detergents.

Right Water Systems:- The Water Softening Plants are designed to produce treated Water to suit for various applications. Treated Water is of consistency quality with low residual hardness throughout the service cycle. The high synthetic resin is used to exchange Sodium ion with hardness forming Calcium and Magnesium ions.

After producing desired output, the resin is regenerated with (NaCl) Sodium Chloride solution after which unit is again ready to deliver next batch. The Water Softening Plant units are available with different models. The difference between these models is in the capacity of the resin used for each model. These units are easy to operate and maintenance free. These models are available to produce various capacities up to 200 Cu. Meters per hour maximum.

Right Water Systems:- To the process Water softening methods mainly rely on the removal of Ca^{2+} and Mg^{2+} from a solution or the sequestration of these ions, i.e. binding them to a molecule that removes their ability to form scale or interfere with soaps. Removal is achieved by ion exchange and by precipitation methods. Mineral tank and the brine tank are the main constituents of the Water softening system. The Water softening system consists of a mineral tank and a brine tank. The mineral tank and the Water supply pipe is connected due to which Water passes through the tank before it can be used. Mineral tank consist of negatively charged beads or resins that attracts positively charged calcium and magnesium.

The surface of the resin gets coated with the calcium and magnesium minerals. The resin is cleared by flushing a strong sodium (salt) solution held in the brine tank. The sodium ions are powerful and they easily overpower the calcium and magnesium ions and drives them off of the resins which is later drained out of the unit.

Water Treatment Chemicals

Total Water Management

We are manufacturing Sales, Service & Supply Water & Waste Water Treatments Plant, Water Treatment Plant Fabrications, all Type Boiler & Water Treatment Chemical R.O. Plant, Pharmaceutical R.O. & D.M. Plant, Dialysis R.O. Plant, Effluent Treatment Plant (E.T.P.), Sewage Treatment Plant (S.T.P.), U.F. Plant, Zero Liquid Discharge (Z.L.D. Plant), Package Drinking Water Plant, Water Filtration System, Water Softener Plant, Swimming Pool Filtration System, all Type Boiler & Piping Works, Spare Sales, Annual Operation & Maintenance, etc.





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Right Water Systems: - We are Water Treatment Chemicals testing, build and turnkey water treatment plant Chemicals manufacturing, supply, sales & service provide.

Right Water Systems: - Water Scale is the precipitate that forms on surfaces in contact with water as a result of the precipitation of normally soluble solids that become insoluble as temperature increases. Some examples of scale are calcium carbonate, calcium Sulphate, and calcium silicate. Scale inhibitors are surface-active negatively charged polymers. As minerals exceed their solubility's and begin to merge, the polymers become attached. The structure for crystallization is disrupted and the formation of scale is prevented. The particles of scale combined with the inhibitor will then be dispersed and remain in suspension. Examples of scale inhibitors are phosphate esters, phosphoric acid and solutions of low molecular weight polyacrylic acid.

Water Treatment Chemical Supply: - Antiscalent Chemicals, Biocide Chemicals, Cleaning Chemicals.

- ✚ RO Chemical
- ✚ ETP Chemical
- ✚ STP Chemical
- ✚ Colling Tower Chemical
- ✚ Boiler Chemical



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