

## **WATER TREATMENT SYSTEMS:**

### **Hard Water Softeners/ Water Softening Plants:**



We offer highly efficient water softening plants designed to remove scale forming salts and ions such as calcium and magnesium. The softening plants are based on ion exchange process that uses resins as media. Softeners can be automatic semi automatic or largely manual as per the requirement of the clients. They are compact in size, easy to assemble, install and maintain. The unit is provided with under bed material to avoid the carryover of dirt from brine solution.

## **Auto-Regeneration Softening Systems:**



Auto regeneration softening system from Impex utilizes the proven ion exchange technology to remove hardness from water. The regeneration valve is adapted for automatic activation of ion exchange resin to replace calcium and magnesium ions. Our compact unit for water softening is available with PLC for easy operation. Auto regeneration softening system can be automatic semi automatic or largely manual as per the client's demand.

## **De-Mineralization Plants (Semi Automatic / Fully Automatic):**



De mineralization plants are based on ion exchange technology to remove minerals from brackish water. The plant comprises of a stainless steel tank and a conductivity meter that continuously indicates the conductivity of the deionized water. Simple structure and modular design of de-mineralization plants make it easy to install. Our de-mineralization plants for use at facilities where the water contains high TDS (Total Dissolved Solid).

## **Hard Water Electrostatic Scale Control Systems:**



We specialize in designing and developing innovative electrostatic scale control equipment for conditioning of hard water. These advanced systems are based on a sound technology basis. Although, the technology is not new but has been carefully developed by WETCO over the years. We have successfully developed very economical hard water scale control device which prevents formation of hard water scale on metal surfaces in air conditioning and boilers. The major advantage of using this technology is that quality of the water is not altered or affected.

## **Reverse Osmosis Systems:**



Our RO (Reverse Osmosis) Systems are designed to remove salt contamination from brackish water sources. These systems feature improved water purity, low energy consumptions and minimal Co2 emission. There are different pretreatment packages for application in hospitals, laboratories, industries, etc. We also specializing in manufacturing mobile water treatment plants using RO systems as a part of the whole system to get rid of excessive dissolved solids and bacterial impurities.

## **Pressure Sand Filter:**



Our range of sand filters are versatile additions to industrial purification system, aquaculture, etc. These filters work by forcing water at pressure through a bed of carefully graded media that collects dirt and solids. We specialize manufacturing customized pressure sand filters in different capacities as per the client's requirement.

### **Activated Carbon Filters:**

Our range of innovative activated carbon filters are designed to remove color, odor and bad taste from the water. Activated carbon treated with oxygen traps the particles and adsorbs other impurities from the flowing stream of water. The huge surface area of activated charcoal gives it countless bonding sites, which attracts all the impurities. Carbon filters are specially effective in removing chlorine, sediment, and volatile organic compounds (VOCs).

### **Dual Media Filters / Multi Media Filters:**



Our range of dual media filters / dual media filters are used in the facilities, where the raw material contains suspended particles, turbidity and iron. The dual media filters comprises of sand and anthracite as filtering media and polishing media respectively. Distribution and bottom collecting system are integrated in a compact unit. On the exterior of the unit, there are frontal pipe and isolation valves. Sand is used for removing the suspended particle and anthracite removes the odor and colour to make the water pure. Small pebbles are provided to support both the medium.

## **Clariflocculators:**



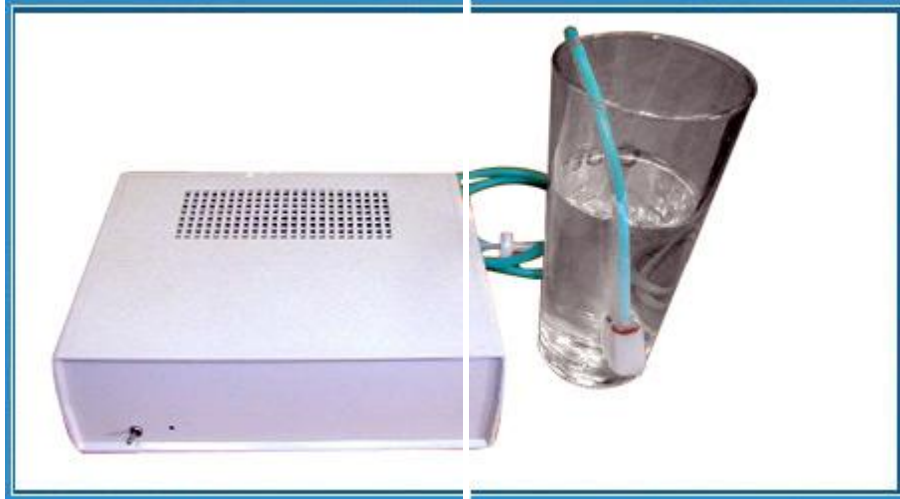
Clariflocculators are mostly used for chemical primary treatment for effluent water. These filters are designed to provide an economical and faster installation of primary treatment. The innovative design enables the clariflocculator to handle heavy slugs while delivering shortest floc settling time. Our range of Clariflocculators features high torque centre drive with sludge arm lifting device.

## **Chlorine Dosing Systems:**



Chlorine dosing systems are simplest and most widely used disinfection system, worldwide. Chlorine is simple to dose, cost-effective and very efficient as a disinfectant. Diaphragm pumps are commonly used for application of chlorine to treat waters. In addition, plungers and some other types of pumps are also used to dose chlorine. Sometimes chlorine tanks are also to keep the water in contact for a longer period of time. Dosing can be done using liquid or gaseous chlorine as per the requirement.

## **Ozone Disinfection Plants:**



Ozone is the most powerful disinfectant available for drinking water and wastewater treatment. It readily disinfects bacteria and virus and is powerful enough to deactivate the protozoan cysts giardia and cryptosporidium. The disinfection plants from WETCO creates ozone on site using electricity. Since ozone is generated on site, there are no need for purchasing chemicals, transport or storage of the gas. Ozone does not produce any harmful effect and leaves no long term residual oxidant in the water.

## **Ultra Violet Disinfection Systems:**



We offer a modular, open channel, self-cleaning UV technology for disinfection of primary, secondary and tertiary effluent, or combined sewer overflows and stormwater. These systems provide a cost-effective way of chlorination and disinfection of the wastewater. Ultraviolet light is used to disinfect wastewater by altering the genetic material in cells so that bacteria, viruses and other microorganisms can no longer reproduce. In Ultra Violet Disinfection System, the UV light is produced by germicidal lamps which are submerged in an open channel.

### **Types of Industrial Effluent Treatment Plants**

We offer a wide range of industrial effluent treatment plants for application in paint shop, dairies, paper mills, oil refineries, leather industry, glass factories, chemical and processing industries etc. These industrial effluent treatment plants are designed to provide a pollution free working environment and recycle the water for other applications. All the effluent treatment plants strictly comply with the design specifications laid down by the regulatory authority.

The industrial effluent treatment plants involve different stages of treatment including physio- chemical treatment and biological treatment followed by tertiary treatment. Integrated functions with simple control makes the operation much easier. Our engineers can also custom design effluent treatment plants based on the specific application requirement of the customers. WETCO Industrial effluent plants have a compact design and can be easily installed on the site.

## **Effluent Treatment Plant for Paint Shop:**



## **Paint Shop Effluent Treatment Plants (APPSET):**

Our Paint Shop Effluent Treatment Plants (APPSET) have features compact design a completely packaged unit. These next generation plants contain exhaustive chemical treatment in a ready to install packaged steel unit, which is containerized ready to ship. The system comprises of series of chemical reaction tanks working in series to separate or neutralize toxic polluting contaminants including paint in effluent. The treated output can be reused for auxiliary applications.

**Effluent Treatment Plant for Textile Dyeing Industry**  
**Textile Dyeing Waste Water Plants / Textile Dyeing**  
**Effluent Treatment Plants:**



WETCO has successfully installed Industrial effluent treatment plant for treating waste water in textile dyeing industries across the globe. The effluent from this industry generally consists of high amount of salts such as sodium sulphate or sodium chloride. For the purpose, first Evaporation, then Crystallization of Salts and thereafter centrifuging is done to dewater the salt output from crystallizer. We also offer customization of plants based on the specific requirements of the clients.

## **Effluent Treatment Plant for Dairy:**



WETCO Effluent Treatment Plant is a revolutionary way to treat dairy factory effluent wastewater. These system are specially designed for the treatment of typical effluent with high concentration of organic matter and nutrient loads related to the production cycle. The advanced system can effectively handle high fluctuations in quality and quantities of effluent at different times. We can also supply additional equipment such as clarifiers, aerators, screens, settling tanks etc. for dairy waste water treatment applications.

## **Effluent Treatment Plant for Leather Industry**



Effluent from leather industries contain different types of contaminants which generally includes chrome and other toxic chemicals. WETCO effluent treatment plants comprises of units for primary and secondary treatment of the effluent. The treatment is complex and requires seamless integration of different process. We have successfully installed various plants for leather processing and tannery effluent treatment.

## **Effluent Treatment Plant for Electroplating Industry:**

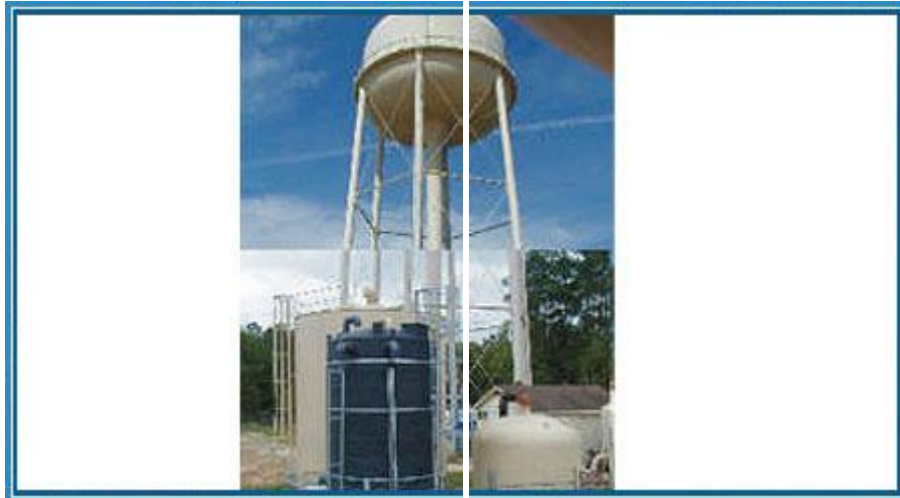


We expertise in manufacturing an advanced range of effluent treatment plant for application in electroplating industry. This industry has been primarily categorized as a pollutant industry, due to presence of highly toxic contents such as chrome, cyanide etc. Our effluent treatment plant are specially designed to recover many precious metals such as chrome from the effluent. This not only helps in controlling the pollution but makes the process cost-effective.

## **Types of Water Treatment Plants:**

We specialize in providing turnkey solutions for Water Treatment Plants. These water treatment plants are custom designed as per the requirements of the clients. Based on the latest technology, our water treatment plants provide easy operation and maintenance. The water treatment plants also work to control the pollutions and recover various components contained in the slurry. We offer a comprehensive range of water treatment plants including Packaged Water Treatment Plants, Mobile Water Treatment Plants, Compact Water Treatment Plants, Drinking Water Treatment Plants and Iron Removal Plants.

## **Drinking Water Treatment Plants:**



WETCO provides an innovative solution for generation of potable water. We help our client to meet the stringent drinking water standards for villages, residential complexes, industries, hospitals, institutions, etc. The drinking water treatment plants integrate different process such as filtration, odour removal, dis-infection, etc. In cases, where there are more serious contaminants such as high dissolved solids or other pollutants such as metals, fluoride, arsenic, etc., more specific treatment method is applied. Different types of drinking water treatment plants are available for purification of potable water ranging from simple filters to reverse osmosis system.



### **Iron Removal:**

Our Demineralization Plants (DM Plants) perform well where water quality is not brackish. Minerals such as iron are mostly present in the groundwater, causing unwanted precipitation and color. The DM plants is the best option for treatment of water with high TDS (Total Dissolved Solid). We specialize in manufacturing Demineralization Plants in different capacities as per the demand of the clients.

#### **Services Offered**

We manufacture superior quality water treatment equipment, wastewater treatment equipment, sewage water treatment equipment, etc. It covers the entire spectrum of municipal and industrial water and wastewater treatment. We offer civil, mechanical, electrical and chemical engineering skills as turnkey operation. Our team of experienced engineers provide excellent after sales service to our clients. We keep our clients updated with the latest development in industry and provide different for modernization of existing plants.

### **Equipment Manufacturing and Supply**

We specialize in manufacturing an advanced range of water treatment plants, water treatment equipment, wastewater treatment equipment and sewage water treatment equipment. Easy to operate, our plants are specially designed to work in extreme conditions across various industries. They have a sturdy construction and provide eco-friendly operation.

### **Consultancy - Design / Engineering:**

With a motto of "our future back to nature", we are a customer centric company and work with the approach of meeting our customers unique requirements. Our expertise lies in the area of consultancy and related activities such as :

#### **Waste Water Engineering:**

Training

Upgrading of existing water and waste water treatment facilities.

Topographical survey / contour mapping of area.

Soil testing. " Raw water analysis of quality / quantity parameters.

Piping of water treatment plant / sewer line net work designing.

Feasibility study for setting up new or upgrading existing facility.

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### **Our portfolio of services includes:**

Water balance analysis.  
Piping systems layout.  
Leakage assessment.  
Pumping stations: system design, engineering.  
Proposals for recycle, utilization of water / waste water.

Treatment proposals for raw water and feasibility study for diverse water Treatment systems.

We have excelled in the field designing sewage / industrial waste water treatment plants. Our competent and experienced technical team and engineers are backed by local area networking, and Computer Aided Design / Drawing System. We have developed proficiency to meet the demands of diverse industries including :

Auto component industries.	Industrial residential colonies.
Beverages manufacturing.	Kitchens, restaurants and canteens.
Chemical industry	Leather industry
Commercial and office complexes	Meat processing industry
Dairy industries	Non-Ferrous rolling mills industry
Electrical equipment and component industry	School campus and residential complexes.
Electroplating industry	Steel rolling mills industry
Hospitals and nursing homes	Sugar manufacturing industry
Hotels and Holiday resorts.	Textile dyeing, printing. Denim manufacturing industry.
	Vegetable and mineral oil processing industry

### **Construction of Treatment Plants:**

We also specialize in executing civil construction works for our clients while handling turnkey projects. Our activities in the field involves jobs related to construction of sewage, Industrial waste water and Water treatment plants. The company undertakes civil construction job only on the request of the clients. However, if the client desires to get the job done by other party or himself, we will provide civil engineering drawings and other specifications that would support the project for treatment plants. We maintain a large inventory of materials required for civil construction jobs.

## **Erection (Installation), Testing & Commissioning:**

We also offer services for erection and commissioning of the plants in the field of Water Treatment Plants and Wastewater Treatment Plants. Our experienced team of engineers has the expertise to install and commission plants manufactured by other companies. We undertake such as project on request of clients. The experienced manpower and latest equipment enables us to execute projects with perfection and on time. We understand that commissioning of Water Treatment plants and Wastewater Treatment plants supplied by external agencies present a problem, hence WETCO has employed specialist for such as jobs.

## **Turnkey Projects:**

We are experts in handling jobs related to water treatment plants and wastewater plants. Our core competency lies in providing turnkey solutions, which include complete project management right from concept to commissioning. Every project is staffed with a competent technicians, engineers and other skilled workforce. We have emerged as a recognized name in the industry and have some of the most reputed domestic companies in our client list.

## **Operation and Maintenance of Water Treatment Plant and Wastewater Treatment Plant:**

In the field of Water and Waste Water Treatment Plants, we expertise in erection and commissioning of the plants supplied by us as well as other companies. Our experienced team provides prompt after sale services to our clients for operation and maintenance of the plants. We also provide our special training for proper functioning and maintenance of the system and pay timely visits for servicing. Our team of highly experienced technicians is dedicated to achieve complete customer satisfaction.

## **Wastewater Recycling Plant:**

WETCO has the right the right mix of engineering capabilities and experience to provide comprehensive solution for recycling of wastewater. In today's global scenario when the world is facing a shortage of clean water, recycling very important particularly in desert area and areas having scarcity of water. The process of recycling helps you get the most from limited water supplies. We offer a low-cost, environmentally friendly ways to create fresh water for industries, agriculture and other uses.