



NEWTECH CHEMICALS



WATER TREATMENT FILTRATION PROCESS SYSTEMS



WATER TREATMENT FILTRATION SYSTEMS



REVERSE OSMOSIS SYSTEM



FILTRATION SYSTEM



WATER SOFTENER SYSTEM



DM PLANTS WITH MIXBED SYSTEM

Introduction

Newtech Chemicals is a leading company based in Faridabad for Water Treatment Solutions & Services Provider.

Newtech Chemicals is into Manufacturing, Supply & Services of high quality Water Treatment Chemicals & Water Treatment Systems. We provide chemicals for Reverse Osmosis Plants, Cooling Tower Water and Boiler Water Treatment. Having many years of experience in Water Treatment Industry we have become trusted partners to many companies across India. Our mission is to help our clients improve their Water Treatment Processes, Increase Efficiency which helps in reducing Costs / Expenses. We offer a wide range of Water Treatment Chemicals like Antiscalant, Membrane Cleaning Chemicals, Disinfectants, Corrosion Inhibitor, Alkinity Reducers, Biocide Microbicide, pH booster etc.

Under Water Treatment Systems we provide Filtration Process Systems, Softener Plants & Reverse Osmosis Plants with back up support on after sales & Services. We also undertake AMC's of existing systems in use and supply Components & Spares as required

FILTRATION PROCESS SYSTEMS:



Pressure Sand Filter

Activated Carbon Filter

Iron removal Filter

Water Softeners Plants

DM Plants And Mixbed Unit

Reverse Osmosis System

1. Pressure Sand Filter Or Multi Grade Filter

Pressure Sand Filter Or Multi Grade Filter are used in water treatment to remove Suspended Solids, Dust and Dirt present in the raw feed water with minimum pressure drop. These filters contain multiple layers of coarse and fine sand, pebbles and gravels, in a fixed proportion for retaining or holding both large and small suspended solids and un-dissolved impurities. In P.S.F. water is passed through multi layers of filter media. The contaminants in the water are captured in the media bed and filtered water passes into the discharge manifold at the bottom of the tanks. As compared to conventional sand filter, these Multi Grade Filtration systems work on higher specific Flow rates. They are of high through puts, have high dirt - holding capacity and also high capacity to reduce turbidity and TSS (< 5ppm) from water. It protects

2. Activated Carbon Filters

Newtech – Activated Carbon Filters are used in Water Treatment to remove contaminants from raw feed water. Activated Carbon Filters remove organic components & other impurities from raw water. We offer high performance Activated Charcoal Filters with stringent design, enhanced longevity, and optimum surface area utilization to ensure whole fulfilment. These filters are filled with Carbon Media or Activated Carbon Granules which are highly porous and when raw water flows through the contaminants are absorb or stick to the surface of activated carbon. Surface of ACF is a type of filtration technology that uses to remove Total Organic Carbon (TOC) & Chlorine from the fluid by adsorption

FILTRATION PROCESS SYSTEMS:



3. Iron Removal Filters

Newtech - Iron Removal Filters are used to remove excess Iron contents from the feed water with minimum pressure drop. It helps to treat the hard iron contents of raw water by removing minerals and making the water Iron free. It is one of the problems that consumers and industrialists face a lot. The presence of iron in water can prove harmful since it can pose problems related to the Industries design, cost, and operation. The presence of excessive iron can cause the discoloration of water, laundry, and plumbing fixtures.

4. Water Softeners

Newtech - Water Softeners are used to remove hardness from Raw Water by removing Calcium and Magnesium Ions. The two minerals that cause water hardness are Calcium (Ca^{2+}) & Magnesium (Mg^{2+}). In addition, any positively charged ion will be attracted and eliminated during the ion exchange process (also known as a cation). Other minerals, such as iron and manganese also included. 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.

FILTRATION PROCESS SYSTEMS:



MIX BED Plant

Mixed Beds are Ion Exchangers method used where superior water quality is needed. Cation and Anion Resins both mixed in a single vessel. They are typically the last treatment step in the water treatment process train. The resin bed is in the both H-OH form. These units are normally designed so that they can be automatically operated, with all the necessary internals, instruments, components and controls. The mixed bed plant is used for fine polishing in high tech water installations, e.g. the Medical and Electronics Industries, Hospitals, and Power Stations. Treatment of demineralized water with low carbonic acid content results in conductivities as low as under $0.1 \mu\text{S}/\text{cm}$.

Mixed bed units deliver an excellent treated water quality, but are complicated to regenerate, as the resins must first be separated by back washing before regeneration. Additionally, they require large amounts of chemicals, and the hydraulic conditions for regeneration are not optimal. Therefore, mixed beds are usually only used to treat pre-demineralized water, when the service run is long.

Newtech - DM Plant (De Mineralization Plant)

Demineralization is the process of removing mineral salts (such as cations - sodium, calcium, iron, copper, and anions such as chloride, sulphate, nitrate, etc.) from Water by using the ion exchange process.

Ion Exchange (Cation-Anion Mix Bed) Treatment Membrane Filtration (Like Reverse Osmosis followed by MB)

With most natural water sources it is possible to use Demineralization and produce water of a higher quality than conventional distillation
Demineralised (DM) Water known for typical conductivity $<30 \mu\text{mhos}/\text{cm}$. Deionized (DI) Water known as more purified DM water with the help of a Mix Bed (MB) unit or Electro De-Ionizations (EDI) MB based DI water produces Conductivity $<5 \mu\text{mhos}/\text{cm}$. EDI based DI water produces Conductivity $<0.5 \mu\text{mhos}/\text{cm}$.

FILTRATION PROCESS SYSTEMS:



Reverse Osmosis Systems (RO Plants)

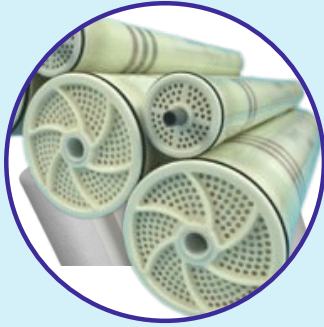
Reverse Osmosis Systems / Plants are designed on the basis of Feed Water Quality (Raw Water Parameters) as provided. At Newtech we are providing services and solutions to a number of satisfied customer base. Our range of Reverse Osmosis Systems starts from 100, 250, 500 LPH for Domestic / Institutional applications. The required treated water is mostly for drinking water application under this.

Industrial RO systems range mostly starts from 1000 LPH and above to any capacity depending on the basis of total Treated Water (Quantity & Quality) as required per day. RO systems is a water treatment plant that efficiently removes impurities, organic matter and harmful chemicals from raw water and yields fresh and purified water which is suitable for various industrial purposes

COMPONENTS, SPARES & CHEMICALS



MEMBRANES



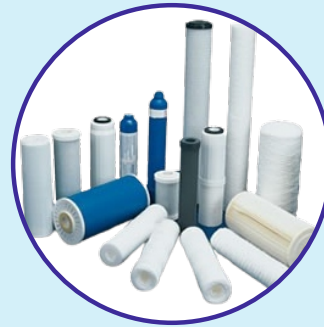
MEMBRANE HOUSING



MULTI PORT VALVES



PUMPS



FILTER CARTRIDGES



ROTA METERS



FILTER VASSELS



PRESSURE GAUGE



FILTER HOUSINGS



SS FILTER HOUSINGS



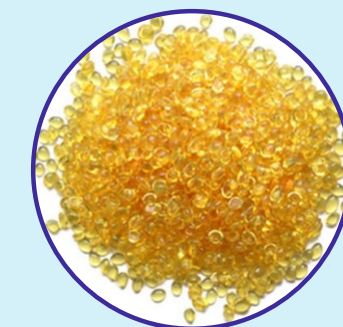
DOSING PUMPS



CONTROL PANELS



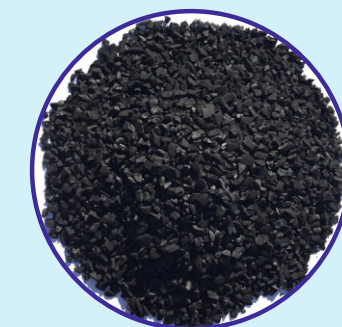
RO CHEMICALS



RESIN MEDIA



SAND MEDIA



CARBON MEDIA

We also provide AMC & Services For RO Systems

NEWTECH IN HOUSE MS FABRICATION



NEWTECH LIST OF CLIENTS





NEWTECH CHEMICALS
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