ROLLCE™
ENGINEERING
PTE LTD
COMMITTED TO EXCELLENCE

RELIABLE **BRAND IN WATER TREATMENT TECHNOLOGY**

Industrial Reverse Osmosis System | Sea-Water Desalination System
Mineral Water System | Water Softening System | Demineralization System
Swimming Pool Filtration System | Sand / Carbon /Micron Filtration System
Waste Water Recycling Plant | Turnkey Project

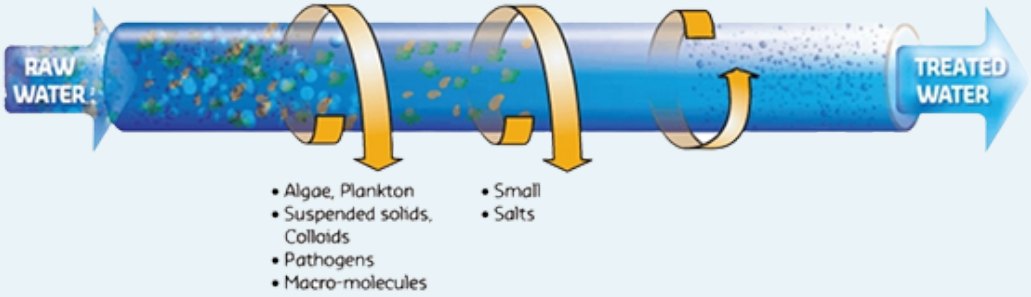
Water is a basic necessity of life, without which we would not be able to get by. Unfortunately, most of the water that reaches our homes and establishments contains impurities, even though it has been treated at the source. That's where we, Rollce Global, come in.

COMPANY PROFILE

Our company, Rollce Global, is an international leader in providing quality water treatment systems that adhere to the most stringent international standards. As a pioneer in this field with our ever-dependable service backup, you can depend on us for any customized solution. In addition to our highly qualified and experienced service team, we have a full spare inventory, expert advice from our technical and development teams, and round-the-clock help desk support.

Our systems are designed to provide years of trouble-free service demanding high flow rates and high product water quality, especially as the demand for high-purity water continues to increase in industries such as Mineral Water, Boiler / Cooling Towers, Power Generation, Metal Finishing / Working Pulp & Paper, Textile, Dairy Processing, Institutes, Hotels, Pharmaceuticals, Green House, Waste Water Recycling, Agro-based Products, Electronics / Semiconductor, Food Processing, Photographic / Printing, Medical / Hospital and many more.

REVERSE OSMOSIS (MEMBRANE BASED TECHNOLOGY)



Membrane Technology advances more rapidly than any other separation method, and its versatility offers the greatest potential for resolving water management and liquid separation problems of the 21st century. As conventional methods of water treatment are becoming more expensive, the physical membrane separation technique using Reverse Osmosis provides the most reliable and economical solution. This technique alone or in combination with the Ion Exchange System for the treatment of brackish, sea, and wastewater will produce specific treated water quality for various applications.

Rollce Global offers standard models of RO systems ranging from 10 to 1,50,000 lph suitable for domestic, commercial, and light industrial applications.

DEMINERALIZED PLANT (RESIN BASED TECHNOLOGY)

Rollce Global offers a wide range of Softening, De-alkalisation, and De-mineralisation plants using various grades of Ion Exchange Resins in Dual columns, Multi-column, etc. as per the raw water quality and pure water requirement. These systems are designed with or without a Degasifier column and use different regeneration techniques such as co-current, counter-current, packed bed, thoroughfare, etc. to achieve optimum performance level. These systems are available in standard skid-mounted packages for small flow rates to large Turnkey, Custom Built plants for high flow requirements.

WASTEWATER

EFFLUENT TREATMENT PLANT WITH RECYCLING (ZERO LIQUID DISCHARGE)

ETP with ZLD is now becoming the preferred waste water treatment system in response to the call for climate change. In this solution, the effluent from the processing plant will undergo 3 stages of treatment namely equalization, aeration, and clarification. The clarified water is then sent for further treatment, the final product is good for process application and or potable use.

EFFLUENT TREATMENT PLANT

A wastewater treatment plant is a facility in which a combination of various processes (e.g., physical, chemical and biological) are used to treat industrial wastewater and remove pollutants. The processes involved in waste-water treatment include physical processes such as settlement or flotation and biological processes such as aerated lagoons, activated sludge or bio-films in trickling filters. Other physical methods such as filtration through sieves may be used in specialised circumstances such as de-watering waste-water sludge.

Capacity: 10 m3/day to 1000 m3/day

SEWAGE TREATMENT PLANT

Sewage treatment is the process of removing contaminants from wastewater, containing mainly household sewage plus some industrial wastewater. Physical, chemical, and biological processes are used to remove contaminants and produce treated wastewater (or treated effluent) that is safe enough for release into the environment. A by-product of sewage treatment is a semi-solid waste or slurry, called sewage sludge. The sludge has to undergo further treatment before being suitable for disposal or application to land.

Capacity: 10 m3/day to 1000 m3/day

WATER FILTRATION

DUAL MEDIA FILTER (DMF)

It is having graded sand and Anthracite media as a filtering media which shall remove suspended particles more than 50 microns size up to the inlet load of 15 to 20 ppm. If it is more than 20 ppm it is advisable to put Coagulation dosing system prior to filter.

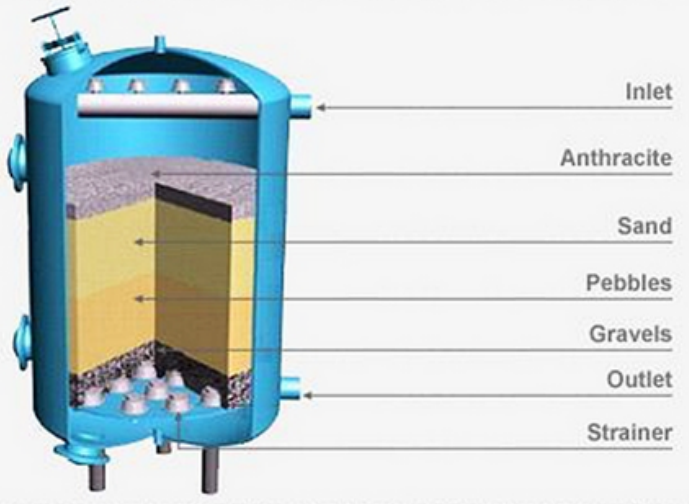
ACTIVATED CARBON FILTER

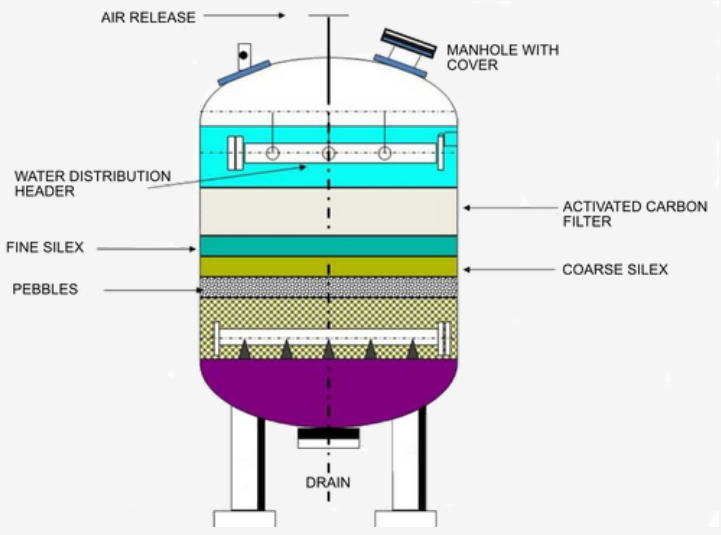
It is having filtering media as an Activated Carbon which will remove any color/odor, or any oxidizing agents like Free Chlorine, COD/BOD, etc. After the Activated Carbon Filter, the water shall be crystal clear. It works basically on adsorption technology.

ULTRA-FILTRATION SYSTEM

The ultra-filtration membrane system is used in order to treat a higher quantity of suspended solids and Colloidal Silica present in the water. The ultra-filtration system will operate on 90-95% recovery. The backwash of the system will be done at a predefined. A chemical cleaning facility is also provided to avoid membrane damage due to fouling.

Capacity: 1 m3/hr to 150 m3/hr





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