



Crienviro
Engineering Eco-Sustainability
Reverse Osmosis (RO)

Reverse osmosis (RO) is a water purification technology that uses a semipermeable membrane to remove ions, molecules and larger particles from drinking water, treated effluent. In reverse osmosis, an applied pressure is used to overcome. Reverse osmosis can remove many types of dissolved and suspended species from water, including bacteria, and is used in both industrial processes and the production of portable water. The result is that the solute is retained on the pressurized side of the membrane and the pure solvent is allowed to pass to the other side.

Reverse osmosis also involves diffusion, making the process dependent on pressure, flow rate, and other conditions. Reverse osmosis is most commonly known for its use in drinking water purification from seawater, removing the salt and other effluent materials from the water molecules.

RO plant comprises of following units

1. Pressure Filter
2. Activated Carbon Filter
3. Cartridge Filter
4. Membrane housing with membrane elements
5. Feed Pumps
6. Antiscalant Dosing System
7. UV disinfection System
8. Electrical Control System with other required accessories for the smooth functioning of entire system



We Crienviro have involved in design, supply, erection and commissioning of various grades of RO systems such as;

1. RO system for
 - a) Hostels
 - b) Institution
 - c) Hotels and
2. Industrial RO System for
 - a) Pre treatment for Process Water
 - b) Tertiary treatment of ETP, STP depending upon the end applications