



WATER RO

Containerized Plants based on Reverse Osmosis (RO) Technology



Containerized RO Plants



Skid Mounted RO Plants

Compact Reverse Osmosis Systems

1

Plug and Play Systems

2

Recycle and Reuse water

3

Environment Conservation

4

Reverse Osmosis Plants
Compact yet Complete and Affordable

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Possible Application

- Labor Camps
- Small Industries
- Residential Areas
- Hotels and Resorts
- Construction Sites
- Universities

EARTHCAD ENVIRONMENT – RO Plants

Earthcad Environment Packaged iWater RO Plants are capable of giving excellent quality potable water at a very economical price. The main purpose of this Multistage RO System is to substantially reduce the quantity of Reject Water and at the same time produce water which is free of all impurities.

Reverse Osmosis is a dissolved solids separation mechanism that removes many types of large molecules and soluble ions from solutions by applying pressure to the solution when it is on one side of a selective membrane.

Selection Based on Raw Water TDS

Tap Water:	100 – 999 PPM
Brackish Water	1000– 9999 PPM
High Brackish	10000 – 22000 PPM
Sea Water	22000 – 35000 PPM
High Sea Water	35000 – 50000 PPM

Product Water TDS

Product Water	200 - 300 PPM
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Multi Media Filter

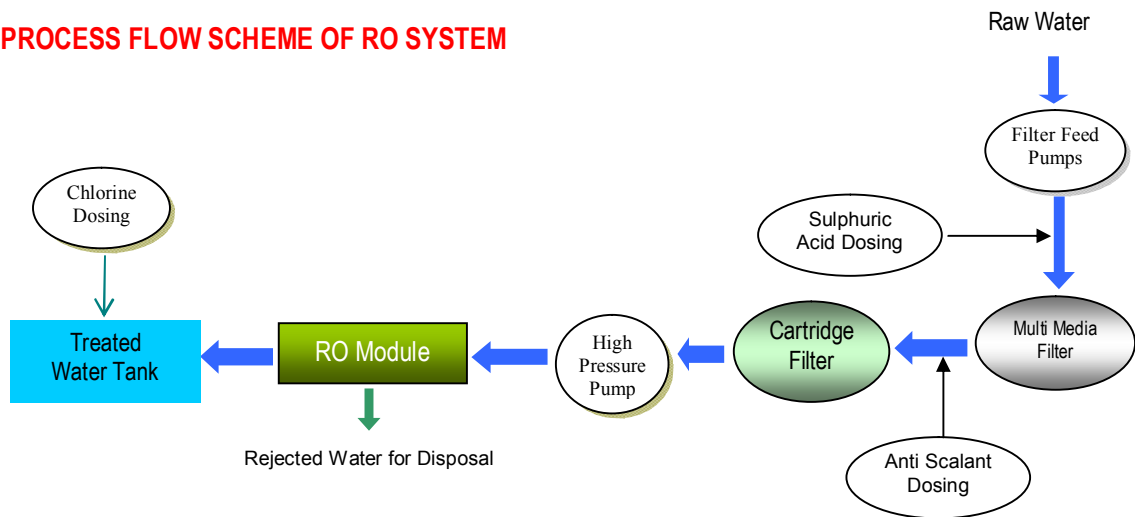
Process Flow Scheme

- RO Product Tank
- Pre Chlorination Dosing System
- Filter Feed Pump
- Backwash Pump
- pH correction System
- Multi Media Filter
- Cartridge Filter
- High Pressure Pump
- RO Membrane Modules
- Chemical Cleaning system
- Instrumentation including Flow Meter, pH Meter, TDS Meter, ORP Meter etc
- Electrical Control Panel with HMI
- Product Water Tank
- Skid Mounted or 20/40 Feet container



Control Panel HMI with Instrumentation

PROCESS FLOW SCHEME OF RO SYSTEM



Salient Features of I Water - RO

- All Electrical and Mechanical Units are taken on a duty standby basis with International Makes.
- System is either Skid Mounted or in a 20/40 feet container which means it is easily transported and installed.
- Easily operated due to the fact that the HMI Console is of a very simple design
- Long Lasting systems



High Pressure RO Pumps



Chemical Dosing Systems



RO Membranes on a skid