



Analytical Technologies Central Water Filtration Plant

SALIENT FEATURES IF RO SYSTEM:

1. Based system for auto tripping and fault display.
2. Cost competitive compare to any semi-automatic RO offered by our competitors.
3. Capable to operate continuous 10 hrs.
4. Low operating cost due to low pressure, high recovery and semi-skilled operators

Required

5. Semi-Automatic Ro Systems

The system is provided with for safety interlocks, which will trip the system and display the fault in case of low suction pressure at HHP, high discharge pressure at HHP, low in dosing tank and conductivity crossing the specified limit.

R.O system are designed considering the pre-treatment based on filtration and using highly effective liquid Anti-scaling formulated with the help of dispersing power of polymers to prevent hardness scale formation and deposition on RO membranes.

We have offered semi-automatic which can be operated continuously for 8 hours without any skilled operators help means a net saving on the wage bill.





SAND FILTER:

Qty.offer	One Set
Type	Down Flow
Size of Vessel	16* 65
Operating philosophy	Driven by non-electrical four way Multi-port valve
Operating Flow rate	2000/Hr
Operating Pressure	3.5 Kg.cm[^] 5
Type of Media	Quartz sand and Anthracite sand
Supporting Media	Gradated gravels & Silex
M.O.C.OF Shell	FRP (AVENTURA)

CARBON FILTER:

Qty.offer	One Set
Type	Down Flow
Size of Vessel	16* 65
Operating philosophy	Driven by non electrical four way Multi-port valve
Operating Flow rate	2000/Hr
Operating Pressure	3.5 Kg.cm[^] 5
Type of Media	Quartz sand and Anthracite sand Activated Carbon 900 iodine value
M.O.C.OF Shell	FRP (AVENTURA)

ANTISCALANT DOSING SYSTEM WITH LAVEL INDICATOR;

Qty.offer	One Set
Type	Electronic Diaphragm type.
Size of Vessel	2-4 LPH at 3.5 Kg/cm[^]2
Dosing rate	650 PPM Total Hardness
Make of pump	NUTAN (USA)
Operating Flow rate	2000 /Hr
Make of chemical	SAI CARE-9000



MICRON CARTRIDGE FILTER (MCF-01):

Qty.offer	One Set
Type	Disposable Cartridge
Size of Vessel	16* 65
Operating Flow rate	2000/Hr
Operating Pressure	3.5 Kg.cm ^ 5
M.O.C. Housing	10” long BB
M.O.C.of Cartridge	Polypropylene
Micron Rating	5 Micron

HIGH PRESSURE PUMP:

Qty.offer	One
Type	VERTICAL
Operating Flow rate	1200/Hr For HP
Operating Pressure	12-15 Kg.cm ^ 2
Make of Pump	GUNFOSH (USA) C.R.I

DESALINATION BY R.O.SYSTEM:

Qty.offer	One Set
Item	R.O Modules containing Memberane with FRP, Pressure Tube with Membrane Element mounted on MS Structural Steel Skind

Type	Thin Film Composite (Polyamide)
Make	Hydronotics.(USA)
Size of Membrane	80” Dia 2 40 Long
No	2 Nos.

INSTRUMENTATION L CD PANEL

a.) PRESSURE GAUGES:

Qty.offer	One lot
Type	Borden type tube
Mounating	Bottom entry & Back Entry
Connection	½ “ BSPT
Range	0-150 PSI- Low Pressure 0-600 PSI- High Pressure



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Analytical Technologies Limited

www.analyticalgroup.net



b.) FLOW INDICATOR:

Qty	Two
Type	On line
Location	R.O.product & Reject
Material of Construction	Acrylic

c.) PRESSURE SWITCH:

Qty	One set.
Type	S,S Below Type
Make	Indfoss/orion/Equip
Location	H.P pump – Inlet /Discharge

d.) CONDUCTIVITY INDICATOR:

Qty	One
Type	One line.
Location	Outlet of R.O Product & Reject

Our Products

Industrial Water Services

Delivered optimum technology solution for every water treatment requirements.

ATL uses variety environment friendly technology ranging from preliminary filtration to advance membrane based separation process.

ATL utilize total rang of water treatment process such as

✦ Aeration / De Aeration	✦ As Per ISI Package Drinking / Mineral Water Plant	✦ Hydro-Pneumatic Pressure Boosting Systems
✦ Sedimentation	✦ UV System	✦ Boiler & Cooling Tower Chemicals
✦ Media and Anthracite	✦ Ozonation System	✦ Water Quality Monitoring Instruments such as TDS / Conductivity / pH etc.
✦ Ion Exchange Based Water Softener & Demineralization	✦ Swimming Pool System	✦ "Aakash" Domestic Softener and Purifier
✦ Membranes Based Separation Processes Such As NF, UF & RO	✦ Waste Water Treatment And Recycle System	✦ Water Testing Kit
✦ Dosing System	✦ Effluent Treatment Plants	



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Stockiest For

- | | | |
|--------------------------|------------------------|----------------------------------------|
| ✦ Ion Exchange Resin | ✦ FRP Pressure Vessels | ✦ High Pressure Pump |
| ✦ Eutech Instrumentation | ✦ Multi-Port Valve | ✦ RO Membrane Dow, Hydraulitics etc... |

Our Services

Industrial Water Services offer our services to customers a comprehensive range of Technical Services Including

- | | | |
|----------------------------------|------------------------------|---------------------------------|
| ✦ Consultancy | ✦ Turnkey Project Management | ✦ Annual Service Contracts |
| ✦ Testing of Water & Waste Water | ✦ Erection & Commissioning | ✦ Pilot Plant Testing & Studies |
| ✦ Design and Engineering | ✦ Operation & Maintenance | ✦ Supply of Spares & Equipment |





Industrial Reverse Osmosis Plant

ATL Water System offers industrial RO to meet the brackish water treatment requirements of industries. Industrial Brackish Water Reverse Osmosis System to purify water and remove salts and other impurities. It is also capable of rejecting bacteria, sugars, proteins, particles, dyes, and other constituents that have a molecular weight of greater than 150-250 Dalton.

Water Softening Plants

ATL Water System offers water softener system is a unit that is used to soften water, by removing the minerals that cause the water to be hard. Water softening is an important process, because the hardness of water in different applications is reduced during this process of iron exchange by cation resins. Industrial water softener is specific ion exchangers that are designed to remove ions, which are positively charged.



Mineral Water Treatment Plant

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De Mineralization Plant

For many laboratory and industrial applications, high-purity water which is essentially free from ionic contaminants is required. Water of this quality can be produced by deionization.



Cooling Water Treatment Chemicals

We are listed amongst the leading organizations, engaged in manufacturing and supplying a qualitative range of Cooling Water Treatment Chemicals. Developed in compliance with the international standards & norms, these cooling water treatment chemicals are processed using excellent quality.

- ✦ SCALE INHIBITOR ✦ CORROSION INHIBITOR ✦ BIO DISPERSANT
- ✦ MICROBIOCIDES ✦ DESCALANTS



Chiller

Water chiller are used in many applications to cool or chill fluids. These applications include, but are not limited to, manufacturing processes, comfort cooling and rental cooling systems. The following information is provided a brief overview of water chiller features and operational characteristics.



Chemicals

Membrane systems demand high performance scale inhibitors to treat water and allow the most efficient production water from brackish water or sea water. MT-ATFC an efficient water treatment polymer is now available for preventing scale and deposits on membranes in separation applications such as reverse osmosis (RO) and nano filtration.