

WPS - 3110

Water Purifying System



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► BASIS OF DESIGN AND TREATMENT SCHEME

1.1 PLANT INTRODUCTION:

The proposed Water Treatment scheme is designed to produce product water at flow rate of 250 LPH based on Reverse Osmosis Technology.

1.2 RAW WATER ANALYSIS (ASSUMPTED):

We have designed the proposed Water Treatment System based on following Water Analysis.

Sr. No.	Parameter Analysis	Value
01.	Total Dissolved Solids	< 1000 ppm(Max.)

1.3 END WATER QUALITY

Sr. No.	Parameter	Value
01.	TDS	< 100 ppm

1.4 RO PLANT OPERATING CONDITION

Sr. No.	Parameter	Value
01.	Feed Flow Rate.	500 LPH
02.	Product Flow Rate.	250 LPH
03.	Reject Flow Rate.	250 LPH

1.5 TREATMENT SCHEME.

Sr. No.	Description
01.	Raw Water Pump
02.	Dual Media Filter
03.	Anti-Scaling Dosing System.
04.	Micron Cartridge Filter
05.	High pressure Pump
06.	RO Module

1) Feed quality is same as specified in your enquiry. In case of any change in the quality of raw water, the same may have an implication on the operating parameters and End- water quality of the system.

2) Feed limiting condition mentioned in our offer is strictly maintained.

3) Operation of Water treatment plant is strictly followed in totality as per our operating manual & instructions.

►► TECHNICAL SPECIFICATION RO PLANT 250 LPH

SR No	Item Description
01.	Raw Water Storage Tank
02.	Skid of SS box pipe
03.	Raw Water Pump # Electric Motor. # M.O.C: - SS # Make: - Shinge/Grundfos
04.	Multi Grade Filter # FRP Pressure Vessel (10x54 Starlite/Pentair) # Multi Port Valve (Di come) # Frontal U-PVC pipe work with necessary Fittings. # Initial Charge of Media.# Carbon 900 IV
05.	Micron Cartridge Filter # PP Micron cartridge filter housing # Size: - 4" Dia X 20" Height # Micron Cartridge Filter.
06.	Anti-scaling Dosing System # Dosing Pump
07.	High Pressure Pump # Electrical Motor # M.O.C: - SS # Make: - Shinge/Grundfos
08.	Reverse Osmosis System # RO Membrane (Poly max/Toray) # SS Pressure Tube # Pressure Tube Size": - 4" Dia x 1 Elle. # Membrane Size: - 4" x 40"
	INSTRUMENTS
09.	Pressure Gauges # M.O.C: - SS # Range 0-21 Kg /Cm2. # Glycerin Fluid

10.	Flow Indicator # M.O.C: - PP # Type: - Float Type Panel Mounted. # Maximum Op. Temp.: - 40 Degree Centigrade. # Measuring Points: - 1)RO Module Product Flow 2)RO Module Reject Flow
11.	Pressure Control Valve # Location: - Reject Water Line # M.O.C: - Brass/SS
12.	Ball Valve # Location: - After High Pressure Pump.
13.	Control Panel Panel Box M.O.C: - SS
14.	UV System

Power Consumption: - 3 hp

►► TERMINATION POINTS

Suction of Raw Water Pump : - From respective units
 Outlet of RO Unit. : - From respective units.
 Overflow & drain pipe work : - From respective units.

►► FOLLOWING FOR PLANT OPERATION

- 1) Control supply - 230 V AC.
- 2) Service Water – 500 LPH at flooded suction of raw water pump
- 3) Chemicals – Sp. Anti-scaling
- 4) Civil works, If Required Done by party

PLANT CAPACITY 250 LPH RO			
MODEL	OPERATING	CATEGORY	
RO-250	Manual	HT	
RO-250	Semi Auto	HT	
RO-250	fully Auto	HT	

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