

**water purification Unit**

Plant capacity: 40,000 G.P.D

Total recovery: 50~60%

Design Temperature: 30C

Raw Water Source: Well Water

Actual TDS: 10,000 PPM

Product water TDS: Less than 250 PPM

**EQUIPMENT DESCRIPTION**

**FEED PUMP**

Quantity: 1 no

Brand name: grundfos

**Multi Media Filters**

Quantity: 1 No.

Diameter: 36" x 72"

Material of Construction: GRP,

Mode of Operation: Manual

Filter Media: Graded garnet and sand /Anthracite

Operating Pressure: 7 bars

Face Pipe Work: UPVC

Pressure Gauges: 2 nos. each filter

Micron Filter

Quantity: 1 No.

Pure Rating: 5 Microns absolute

Material: Stainless steel 304

Pressure Gauges: 1 no.

Number of Cartridges: 5 nos.

Model: CF-15

### **RO High Pressure Pump**

Quantity: 1 NO multi stage

Flow rate: 8-10cm/hr

Discharge Pressure: 25 bar

Pump Type: Multi Stage Centrifugal

Speed: 2900 RPM

Seal: Mechanical

Material: Stainless Steel 316

Brand Name: Grundfos

Motor rating: 10 H P

Power Supply: 380-415V 50Hz, 3 Ph

Enclosure: IP 55

Insulation: Class F

### **Membranes**

Quantity: 6 Nos.

Type: Spiral Wound High Rejection

Model: BW 30-400

Diameter: 8"

Length: 40"

Manufacturer: FLIMTEC - USA

Recovery: 40~60 %

**Membrane Pressure Vessels**

Quantity: 2 Nos.

Material: code line-U.S.A

Pressure: 300 psi

Diameter: 8"

**Anti Scaling System**

Quantity: 2 No –

Operating Pressure: 7.5 bars.

Chemical tank: 2 no

Pipe Work:

- All high and low pressure sides pipes and valves is made from UPVC & stainless steel

Frame:

S.STEEL 304

Instrumentations

1. Flow Meters

On the product line: 1 No.

On the reject line: 1 NO

On mixing line

2- TDS Meter

- The TDS Meter is to read the water salt content

On the product line: 1 No.

On the feed line: 1 No.

Type: Digital

Make: Myron L USA or Equivalent

3- Pressure gauge

Quantity	Size	Location	Make	Material
1 No.	4"	On the discharge of the feed pump	AQ.PR	S. Steel 316
2 Nos.	4"	Inlet & Outlet of Sand Filter	=	=
2 Nos.	4"	On the backwash Pumps	=	=
2 Nos.	4"	Before & After Micron Filter	=	=
1 No.	4"	High Pressure Pump	=	=
1 No.	4"	Brine Reject Line	=	=

6. Low and High Pressure Switch

Guarantee

The whole system will be guaranteed for One (1) year against any manufacturing defect