

## TYPICAL SPECIFICATION OF REVERSE OSMSOSIS PLANT

a) <b>BASIC INFORMATION</b>	Technology	: Reverse Osmosis
	Model Number	: HRRO-9000
	<b>Standard</b>	: <b>ISO ( Europe-America )</b>
b) <b>ANTI-SCALANT DOSING</b>	Quantity	: 01 units
	Capacity	: 15 LPH / 4 lph
	Maximum Pressure	: 7 Bar
	<b>Brand</b>	: <b>Pulsafeeder</b>
	<b>Origin</b>	: <b>USA</b>
	Power	: 9.20 W
	Connection Size	: 1/2 Inch Male
	Pump Head	: PVC
	Valve Set	: Viton
	Diaphragm	: Viton
	Valve Ball	: Ceramic
c) <b>MICRON FILTER WITH PRESSURE METER</b>	<b>Description of Tank</b>	
	Quantity	01 unit
	Capacity	60 Ltr
	Materials	HDPE
	Brand	Gfiber
	Quantity	: 01 Unit
	<b>Brand of Housing</b>	: <b>Gfiber</b>
	<b>Origin of Housing</b>	: <b>USA</b>
	Type of Housing	: 5:1 Chamber Type
	MOC	: HDPE / FRP
	Length of Filter	: 40 Inch
	Diameter of Filter	: 2.5 Inch
	Brand of Micron Filter	: Heron
	MOC of Micron Filter	: 100% Polypropylene, melt-blown thermal bond fiber
	Feature of Filter	: High contaminant holding capacity Longer life service Low pressure drop Micro straining melt-blown filtration fiber, high removal rating
	<b>Pressure Meter</b>	: <b>1 Unit</b>
	Usage of Pressure Meter	: It indicate the operating pressure of Micron Filter It indicate the blockage of filter
d) <b>HIGH PRESSURE PUMP</b>	Quantity	: 01 Unit
	<b>Brand of Pump</b>	: <b>Dynamic</b>
	MOC of Pump	: AISI304
	<b>Power</b>	: <b>3 KW, 420V, 50Hz,</b>
	Type of Motor	: Full-Enclosed Air-Blast 2-Pole
	Protection Class	: IP55
	Insulation Class	: F
	Shaft	: Stainless Steel
	Impeller	: Stainless Steel
	Cylinder	: Stainless Steel
	Coupling	: Carbon Steel
Pump Head	: Stainless Steel	



<b>e) RO MEMBRANE HOUSING</b>	Quantity : 3 Units (4040*2) <b>Brand of Housing</b> : <b>Heron / Gfiber</b> MOC of Pump : FRP / SS304 Type of Housing : 4040 End Cap of RO Housing : PA66+30% GF O-Ring of RO Housing : EPDM Dia of RO Housing : 4 Inch Feature of Housing : Non Corrosive and Maintenance free
<b>f) REVERSE OSMOSIS (RO) MEMBRANE</b>	Quantity : 24 Units <b>Brand of RO Membrane</b> : <b>Filmtec / Equal</b> <b>Origin of Membrane</b> : <b>USA</b> Type of Membrane : 4040 Type of RO Membrane : Polyamide Thin-Film Composite Max Operating Pressure : 300 PSI Max Operating Temp : 45 <sup>0</sup> C Max Tolerance of Hardness : 15 ppm
<b>g) PRESSURE METER</b>	<b>Brand</b> : <b>Heron</b> <b>Origin</b> : <b>Taiwan</b> Range of Measurement : Up to 100 and 300 PSI Usage : It indicate pressure of membrane housing It indicate pressure of booster pump
<b>h) FLOW METER</b>	Quantity : 2 Units <b>Brand</b> : <b>Heron</b> <b>Origin</b> : <b>Taiwan</b> Usage : It indicate flow of pure water It indicate flow of wastage water
<b>I) PROGRAMMABLE LOGIC CONTROLLER (PLC)</b>	Quantity : 1 Units Model No : RO-PLC Control Output : Inlet valve, Flushing valve, Raw water pump, High pressure pump Flushing Mood : High and Low Pressure Flushing Usage : Plant will be controlled fully digitally
<b>j) CONDUCTIVITY MONITOR</b>	Quantity : 1 Units Type of Conductivity : Online Operating Temp : 0 ~ 50 <sup>0</sup> C Installation Mode : Panel Mounted Display : 3-1/2 Bit LED Usage : It can measure the pure water quality



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<b>k) TDS MONITOR</b>	Quantity	: 1 Units
	Type of TDS Monitor	: Online
	Operating Temp	: 0 ~ 50°C
	Installation Mode	: Panel Mounted
	Display	: 3-1/2 Bit LED
	Usage	: It can measure the pure water quality
	Measuring Range	: 0~20/200/2000 ppm
Accuracy	: 1.5%(FS)	

<b>l) SOLENOID VALVE</b>	Quantity	: 2 Units
	Type	: AC
	Power	: 220V

**m) FLUSHING SYSTEM** Flushing will be automatically and time is adjustable. Flushing system will discharge the waste from RO Membrane, as a result life of membrane will increase and pure water quality will remain best.

**n) SKID / FRAME** It will be made of 2 Inch Stainless Steel Box, Grade: AISI304 which is Non Corrosive

<b>o) VOLT METER</b>	Quantity	: 1 Units
	Type	: AC
	Power	: 220V
	Usage	: It can measure the electric voltage
	Origin	: Germany

<b>p) AMPERE METER</b>	Quantity	: 1 Units
	Type	: AC
	Power	: 220V
	Usage	: It can measure the Ampere
	Origin	: Germany

<b>q) MAJOR ITEMS OF ELECTRIC CONTRON PANEL</b>	Circuit Breaker	: 01 Unit
	Magnetic Contact	: 02 Units
	Thermal Overload	: 02 Units
	Timer & Relay with Base	: 01 Set
	Indicator Lamp	: 08 Units
	Selector Switch	: 04 Units

## 06 PIPE AND FITTINGS

Quantity	: 1 Lot
Color	: White / Gray
Materials	: Food Grade, uPVC