

## TYPICAL SPECIFICATION OF REVERSE OSMSOSIS PLANT

a) <b>BASIC INFORMATION</b>	Technology	: Reverse Osmosis
	Model Number	: HRRO-6000
	<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>Heron</b>
	Type of Housing	: 20 Inch
	MOC	: HDPE
	Length of Filter	: 20 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
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>2.2 KW, 220V, 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	

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<b>e) RO MEMBRANE HOUSING</b>	Quantity	: 4 Units	
	<b>Brand of Housing</b>	: <b>Heron</b>	
	MOC of Pump	: FRP / SS304	
	Type of Housing	: 4040	
	End Cap of RO	: PA66+30% GF	
	Housing		
	O-Ring of RO	: EPDM	
	Housing		
	Dia of RO Housing	: 4 Inch	
	Feature of Housing	: Non Corrosive and Maintenance free	
<b>f) REVERSE OSMOSIS (RO) MEMBRANE</b>	Quantity	: 4 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	
<b>k) TDS MONITOR</b>	Quantity	: 1 Units	
	Type of TDS Monitor	: Online	

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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)

## **l) SOLENOID VALVE**

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

## **o) VOLT METER**

Quantity	:	1 Units
Type	:	AC
Power	:	220V
Usage	:	It can measure the electric voltage
Origin	:	Germany

## **p) AMPERE METER**

Quantity	:	1 Units
Type	:	AC
Power	:	220V
Usage	:	It can measure the Ampere
Origin	:	Germany

## **q) MAJOR ITEMS OF ELECTRIC CONTROL PANEL**

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