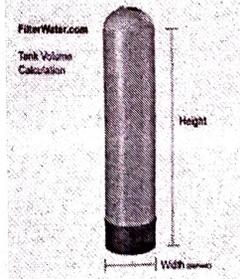


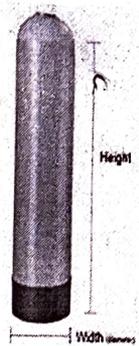
**Tender for REVERSE OSMOSIS Based Drinking Water Plants**  
**Technical specifications of the proposed equipment**

**250 LPH & 500 LPH RO Plant Item wise Technical Specifications**

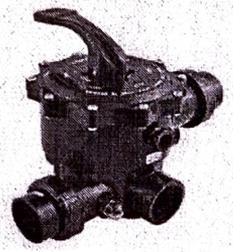
	<b>250 LPH</b>	<b>500 LPH</b>	
<b>Raw water tank</b>			
Make	Sintex/Equivalent	Sintex/Equivalent	
Type	Three layers	Three layers	
MOC	HDPE	HDPE	
Capacity	500 litres	1000 litres	
I/O	25mm	25mm	
<b>Raw water Pump</b>			
Make	LEO/Equivalent	LEO/Equivalent	
MOC	Cast Iron	Cast Iron	
Impeller	Stainless Steel, AISI 304	Stainless Steel, AISI 304	
Max. Liquid Temp.	80 degrees cel.	80 degrees cel.	
Max. Suction	4 metres	8 metres	
Type	Mono block	Mono block	
Model	LEO ACM equivalent	LEO ACM 37	
Thermal Protector	Built in	Built in	
Protection Class	IPX4	IPX4	
Discharge	0.5 cum/hr	1.1 cum/hr	
Head	2.0 kg/cm2.	2.5 kg/cm2.	
Motor	0.37 kw 1 Φ	0.37 kw 1 Φ	
Motor Winding	Copper	Copper	
Voltage	200-240 V	200-240 V	
frequency	50Hz	50Hz	
Suction / Delivery	19 mm	25 mm	
Quantity	01 No. (1w)	01 No. (1w)	
<b>Pressure sand filter</b>			
Make	Alfa	Alfa	
Type	Down flow	Down flow	
Model	FD 30	FD 50	
Diameter	240 mm	300 mm	
Height	1370 mm	1200 mm	
MOC	FRP	FRP	
Capacity	1.0 m3/hr	1.0 m3/hr	
Filtering media	40 kg 16/32	40 kg 16/32	
Type of Media	Graded Pebbles, sand	Graded Pebbles, sand	
Valve	20 NB TM MPV F	20 NB TM MPV F	
Quantity	01 No.	01 No.	
<b>Activated carbon filter</b>			

Type	Down flow	Down flow
Model	FC 50	FC 50
Diameter	240 mm	300 mm
Height	1370 mm	1200 mm
MOC	FRP	FRP
Capacity	1.1 m3/hr	1.1 m3/hr
Carbon	20 kg	20 kg
Type of Media	ACG 60 Grade Carbon	ACG 60 Grade Carbon
Media material	Coconut Shells	Coconut Shells
Valve	20 NB TM MPV F	20 NB TM MPV F
Quantity	01 No.	01 No.

FilterWater.com  
Tank Volume Calculation



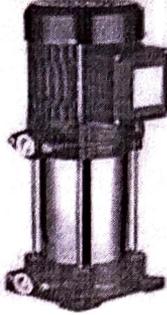
<b>Multiport Valve</b>		
Maximum Flow Rate	3m3/Hr @ 0.5 Kg/cm2 Pressure Drop	4m3/Hr @ 0.5 Kg/cm2 Pressure Drop
End Connections	3/4" BSP (F)(Flanged connections also available)	1 1/2" BSP (F)(Flanged connections also available)
Pressure Gauge Sampling Points	1/4" BSP (F)	1/4" BSP (F)
Maximum Operating Pressure	3 Kg/cm2	5 Kg/cm2
Riser Pipe Size (Top mount models only)	32 mm OD PVC Pipe	32 mm OD PVC Pipe
Drain	2" Hose Elbow	2" Hose Elbow
Valve Connection to Vessel (Top Mount Type Only)	2 1/2" NPT(M) or 4" NPT(M)	2 1/2" NPT(M) or 4" NPT(M)

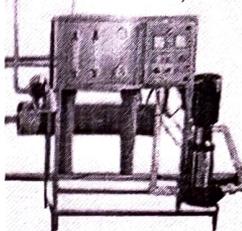


<b>Micron cartridge filter</b>		
Model	20" Blue	20" Blue
Specifications	5 microns, 20" long	5 microns, 20" long
Diameter	2.5"	2.5"
Capacity	1.0 m3/hr	1.0 m3/hr
MOC of housing	ABS	ABS
MOC of cartridge	PP Spun	PP Spun
Quantity	01 No.	02 No.

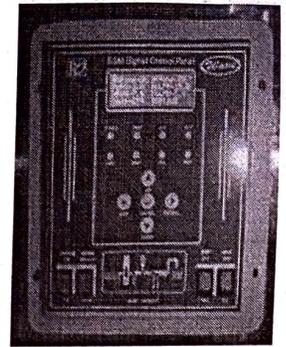


<b>High Pressure Pump</b>		
Make	LEO/Equivalent	LEO/Equivalent
Type	Vertical multistage	Vertical multistage
Model	LEO EVPM 2-9	LEO EVPM 2-9
Discharge	0.6 cum/hr	1.1 cum/hr
Head	11 kg/cm2.	11 kg/cm2.
Motor	1.0 kw 3 Φ	1.5 kw 3 Φ
Max. Liquid Temp.	80 degrees cell/	80 degrees cell/
Max. Suction	4 metres	8 metres
Max Discharge	600	1200

Max Pressure	8 BARS	12 BARS	
Impeller stages	3	6	
Motor Winding	Copper	Copper	
Thermal Protector	Built in	Built in	
Protection Class	IPX4	IPX4	
Voltage	200-240 V	200-240 V	
frequency	50Hz	50Hz	
Suction	19 mm	25 mm	
Delivery	19 mm	25 mm	
Quantity	01 No. (1w)	01 No. (1w)	

<b>Reverse Osmosis System</b>			
Capacity	250 LPH	500 LPH	
Module type	Spiral wound	Spiral wound	
Membrane specification	TFC Polyamide	TFC Polyamide	
Make of membrane	Oltramare/ GE	Oltramare/ GE	
No of membrane	1 no	2 no	
No of housing	1 no. (40-250-1)	2 no. (40-250-1)	
Quantity	01 set.	01 set.	

<b>Electrical control panel</b>			
Model	GSM based - Real time data transfer to Web, Android App and two mobile phones.	GSM based - Real time data transfer to Web, Android App and two mobile phones.	
Type	RO 13 with Conductivity display	RO 13 with Conductivity display	
Make	Wave	Wave	
Quantity	01 No.	01 No.	
Description	AC Low and High Voltage protection to prevent pumps damage.	AC Low and High Voltage protection to prevent pumps damage.	
	Low Pressure & High-Pressure Switches.	Low Pressure & High-Pressure Switches.	
	TDS & Conductivity display on screen.	TDS & Conductivity display on screen.	
	4-line LCD - to show all plant information on the site.	4-line LCD - to show all plant information on the site.	
	GSM based - Real time data transfer to Web, Android App and two mobile phones.	GSM based - Real time data transfer to Web, Android App and two mobile phones.	

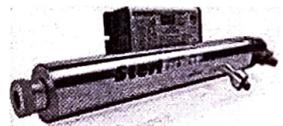


Through App and Mobile phone, RO plant can be controlled for all its functions.	Through App and Mobile phone, RO plant can be controlled for all its functions.
If RO plant shutdown, the fault reason will be communicated through SMS to owner for immediate action.	If RO plant shutdown, the fault reason will be communicated through SMS to owner for immediate action.
Two Flow sensors can be connected; it will show the Treated & Reject water flow in the display.	Two Flow sensors can be connected; it will show the Treated & Reject water flow in the display.
Control Panel shows the RO plant total delivered water Qty from starting to till date.	Control Panel shows the RO plant total delivered water Qty from starting to till date.
Auto setting of Raw Water & High-Pressure Pump current.	Auto setting of Raw Water & High-Pressure Pump current.
Manual setting option also available for set the Raw Water & High-Pressure Pump current.	Manual setting option also available for set the Raw Water & High-Pressure Pump current.
AC Low and High Voltage protection to prevent pumps damage.	AC Low and High Voltage protection to prevent pumps damage.
Auto Flushing / Flush Cycle setting.	Auto Flushing / Flush Cycle setting.
Floaty for Raw Water Tank, Dosing Tank & Treated Water Tank.	Floaty for Raw Water Tank, Dosing Tank & Treated Water Tank.
Low Pressure & High-Pressure Switches.	Low Pressure & High-Pressure Switches.
TDS & Conductivity.	TDS & Conductivity.
All type / Mfr's of Auto Multi Port Valves can be connected.	All type / Mfr's of Auto Multi Port Valves can be connected.

	RO panel provide supply and controls the UV, SV & Dosing Pumps.	RO panel provide supply and controls the UV, SV & Dosing Pumps.
	User friendly - Average plant setting time is less than 10 minutes.	User friendly - Average plant setting time is less than 10 minutes.
	LED Indications to show the Power ON, Raw water tank, Auto Flush, HPP, TWT, HPS, LPS & RWP.	LED Indications to show the Power ON, Raw water tank, Auto Flush, HPP, TWT, HPS, LPS & RWP.
	Control Panel can be supplied on your brand name.	Control Panel can be supplied on your brand name.
	RO panel having default factory settings option.	RO panel having default factory settings option.
	If any electronic PCB's failed in the control panel, still RO Plant runs in Manual mode.	If any electronic PCB's failed in the control panel, still RO Plant runs in Manual mode.
	Product design followed as per international safety standards of IEC 60950.	Product design followed as per international safety standards of IEC 60950.

**Ultraviolet System Description**

MOC	SS 304	SS 304
Flow rate	500 LPH	1000 LPH
Power rating	18W	36W
Power supply	220V	220V
UV Lamp Intensity	18w	18w
Burning Hours	8000	8000
Input water pressure	2kg/cm2	2kg/cm2
Lamps make	Phillips or equivalent	Phillips or equivalent
I/O	12.5mm	12.5mm



<b>Product water tank</b>		
Type	Vertical	Vertical
MOC	SS 304	SS 304
Capacity	500 liters	1000 liters
Thickness	1mm	1mm
I/O	25mm	25mm
Mounting	Stand mounted	Stand mounted

