



*Annexure - I*

**PROFILE BID**

*(To be filled in and submitted along with the offer by the tenderer)*

- 1 Name of the firm M/s.....
- 2 Address of the firm.....  
.....
- 3 Name of proprietor/partner.....
- 4 Details of Tender fee: Rs. 1000/-
- 5 Details of EMD: NOT APPLICABLE
- 6 Telephone No / Mobile No.....
- 7 PAN No. ....
- 8 GST No. ....
- 9 Any other information important in the opinion of the tenderer:

SEAL & SIGNATURE OF BIDDER



## TECHNICAL SPECIFICATIONS

### 1. DESIGN BASIS

#### OUTPUT CAPACITY

Flow (M3/hr.)	0.5m3 (500 LPH)
SOURCE OF WATER	BORE WELL SDI<3
TDS (ppm)	<800
PH	7.5-8.5
TOTAL HARDNESS	300 PPM
SILICA (COLLOIDAL)	NIL
HEAVY METAL	<0.1 PPM
COD	<5 PPM
BOD	<2 PPM
SDI	<3 PPM
FREE CHLORINE	NIL
O&G	NIL
IRON	<0.1
WATER COLOUR	--

#### OUTPUT QUALITY:

The quality of the water at the outlet of the RO plant shall be

TDS ( ppm)	<50 to 60 PPM
PH	7.5
HARDNESS	<15PPM

### 2. PLEASE ENSURE FOLLOWING PRECAUTIONS

SN	DESCRIPTION
1	As BOD, COD is indicated zero (0), the plant is designed as COD and BOD not present in water. If the same is present at a later date then the performance of the plant is not guaranteed. It is the
2	Responsibility of the Customer to analyses all the parameters.
3	Please furnish details of the Level Switch to be provided by Customer on Permeate Water Storage Tank
4	Design basis for the water analysis considered by us is as given above, any change in the same at any stage would have design change implications, performance changes and commercial change implications. In which case this Techno - Commercial offer would
5	Stand to be revised, as deemed corrected by us.



### 3. SCOPE OF SUPPLY

SN	DESCRIPTION	QTY	MOC	SIZE/Remarks/make
1	Raw water feed pumps	No's	ci	1.2 M3/Hr. @ 3.5 KG Cri/Crompton/ Kirloskar
2	Dual Media Filter	1 No.	FRP	Dia 1054
2a	Activated carbon filter	1 no.	FRP	Dia 1054
2b	Water softener	1 no.	FRP	Dia 1054
3	Cartridge filter	2 No	Standard PP	20'x 5M
4	High Pressure Pump	1	SS	1.2 M3/Hr. @ 15 KG Cri
5	Membranes	2 No's	TFC	LG /obey
6	Pressure tubes	2 No's	FRP	UKL/Ex flow
7	Antiscalant dosing system comprising of	1 set		
7a	Dosing Pump	1 no.	PP	0 -6 LPH
7b	Dosing tank	1 No	HDPE	100 liters
8	Pressure gauge	1 No	SS	Pump discharge

### 4. DETAILED SCOPE OF SUPPLY

<b>FILTER FEED PUMP</b>		1.2 M3/HR
Quantity	No.	1 NOS.
Capacity	M3/h	1.2M3/HR
Pressure	Kg/cm <sup>2</sup>	3.5
MOC of pump		ci
Speed of pump	rpm	2900
Motor		1- PH, 50 Hz,230 V
Make of pump		Cri/Crompton/Kirloskar

<b>DUAL MEDIA FILTER</b>		
Quantity	No.	1 No.
<b>Activated carbon filter</b>		
Quantity	No.	1 nos.



<b>ANTISCALANT DOSING SYSTEM</b>		
Chemical		Anti-sealant
Dosing Rate	mg/lit	-----ppm,
No of Pumps	No.	1
Pump type		Metering pumps
Pump make		Star Mach App.
Pump capacity	LPH	0-6
Pump pressure	Kg/sq. m(g)	3.5 kgs/cm2g
Material of Construction (Wetted Part)		PP
Motor		1- PH, 50 Hz, 230 V
Tank capacity	Liters.	100
Material of Construction of Tank		HDPE

<b>MICRON CATRIDGE FILTER</b>		
Quantity	No.	2
Filtration Rating	micron	5
Cartridge MOC		PP
Housing MOC	Nos.	20'' pp
Mode of Operation		Manual
Nos. of Cartridges	Nos.	2

<b>HIGH PRESSURE PUMPS</b>		
Quantity	No.	1
Capacity	M3/h	1.2
Pressure	Kg/cm2	15
MOC of pump		SS 304
Speed of pump	rpm	2900
Motor		1- PH, 50 Hz, 230 V
Make of pump		cri

<b>REVERSE OSMOSIS MODULE</b>	
MODEL	500LPH
PERMEATE FLOW RATE (MAX) (M3/HR)	500
TOTAL FEED FLOW (M3/HR)	1200
REJECT FLOW (M3/HR)	700
FEED PR (KG/CM2)	15



RECIRCULATION FLOW (M3/HR)	0
PERMEATE TDS (ppm)	100
MEMBRANE	4040
NO. OF MEMBRANES	2
NO. OF PR. TUBES	2
ARRAY	01:01
HP PUMP HP	1.5
CARTRIDGE FILTER	20" X 5
CARTRIDGE FILTER QUANTITY	2
CARTRIDGE FILTER MOC	Standard PP

## 5. LIST OF INSTRUMENTS

FLOW INDICATOR	Ex flow (FOR PERMEATE, REJECT)
LOW PR SWITCH	Ex flow 1 nos.
PRESSURE GAUGE	SS 5 nos.
CONDUCTIVITY METER	Aster 1 nos.
LEVEL SWITCH	Aster 2 nos.
Panel	Aster/AFS

## 6. VENDER LIST

SN	Bought Out item	Make
1	MS/ Vessel /FRP	PF/Pentair
2	Dosing & Measuring tanks	STAR MACH
3	Valves & Piping Material	ASTER UPVC & SS
4	MONOBLOCK Pumps	Cri/Crompton/Kirloskar
5	RO High Pressure	cri
6	Dosing Pumps	E dose
7	Pressure Gauges	MICRO /SS
8	Rota meter	AFS
9	PH/Conductivity Systems Electrode (RO)	AFS
10	Flow Totalizer	AFS
11	Level Switches	Aster
12	Power Cable	Polycab
13	Control Cable	Polycab
14	Level Switch	Aster
15	Pressure Switch	ASTER
16	Cartridge Filter	AFS
17	RO Membranes	LG and obey