

SHREE RAM ENTERPRISES

ASTROPURE RO SYSTEM

***Domestic Water Purifier*Industrial R.O.Plant*Water Softner*D.M, Plant**
NANDWANA MANSION, LOHA MANDI SANSAR CHANDRA ROAD, JAIPUR
0141-5118644, 5112644 Email; info@astropurero.com

www.astropurero.com, 9414441900

AN ISO 9001-2009 CERTIFIED COMPANY

Date 5/11/2015

TO,
M/s.

*subject: Your requirement of RO plant with capacity of **500LPH** system*

Respected Sir,

This is with reference to the aforesaid subject. We are very much thankful for your interest in **Astropure RO Systems** range of water treatment products. **Astropure RO Systems** manufactures a broad spectrum of unique water purification, softening and filtration systems servicing the residential, commercial and laboratory markets.

At, **Astropure RO Systems** we are a group of dedicated & result- oriented professional having rich experience in the field of Water treatment Industry, at various hierarchy in the different departments like Design & Engineering, Marketing & Project execution of Reverse Osmosis systems, De ionization systems, Filtration system of different capacities and up to turnkey projects for various reputed concerns. At this juncture we appreciate your keen interest towards our product range and very much pleased to submit our Techno-Commercial proposal as per the following Annexure:

Annexure I : Basis of design and Treatment Scheme
Annexure II : Technical Description
Annexure III : Scope of Supply
Annexure IV : Schedule of Exclusion and Termination
Annexure V : Prices and commercial Terms and conditions

Kindly awaiting for your positive reply.

Sincerely Yours,

For , SHREE RAM ENTERPRISES

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ANNEXURE – I

BASIS OF DESIGN AND TREATMENT SCHEME

1.1) Plant Introduction:

Considering your requirement of Product Water for drinking purpose. We have designed the proposed water treatment plant based on state of the art Reverse Osmosis technology that provides treated water at the flow rate of 3000 LPH.

1.2) Assumed Raw Water Quality:

	TDS	:	75-5000 ppm. /TDS
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1.3} End Water Quality:

	TDS	:	< 50-250 ppm. /TDS
	PH	:	6.5 TO 8.5

The above quality shall be achieved subject to:

- 1] Feed quality is same as specified in your enquiry. In case of any change in the quality of raw water, the same may have implications on the Operating parameters and End-water quality of the system.
- 2] Feed limiting condition mentioned in our offer is strictly maintained.
- 3] Operation of Water treatment plant is strictly followed in totality as per our operating manual and instructions.
- 4] Pure chemicals, Original Spares and consumables, recommended by us, are used in W.T.P.

500 LPH RO PLANT:

1.4	Operating conditions (RO plant)		
	Feed flow rate	:	1000LPH
	R.O. Product water	:	500LPH
	R.O. Module recovery	:	@50- 70 % (Approx.)
	Operating Pressure	:	02-10 Kg/cm ²

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1.5) Treatment Scheme:

Sr. No.	Treatment Scheme
1.	Raw Water Pump (client)
2.	Pressure Sand Filter
3.	Activated Carbon Filter
4.	Antiscilente Dosing pump
5.	Micron Cartridge Filter
6.	High Pressure Pump
7.	RO module

ANNEXURE II

TECHNICAL SPECIFICATION

1.	RAW WATER PUMP		
	Quantity	:	One No. (client)
	Type	:	Multi Stage, Centrifugal
	Make of Pump	:	as client
	Capacity	:	1000LPH
	Operating Pressure	:	4Kg/cm ²
	Type of Drive		Phase, 50 Hz , 215 Volts
	Power consumption	.	S.P.
	Purpose	:	To transfer the raw water at required pressure to Pressure Sand Filter.

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2	PRESSURE SAND FILTER		
	Quantity	:	One No.
	Type	:	Vertical with manual multi port valve
	MOC of Vessel FRP	:	FRP[1248]
	Make	:	/ Pentair/AVENCHURA
	Operating flow Rate	:	2500LPH
	Operating Pressure	:	6 kg/cm2
	Type of Mounting	:	TOP Mount
	MOC Of Valve	:	FRP
		:	
	Frontal Pipe Work	:	PPR.
	Filtering Media	:	Sand , Pebbles , Gravels
	Back Wash duration	:	Whenever Pressure drop across the filter exceeds 0.8 kg/cm2
	Purpose	:	To filter out the suspended particles size up to 25 micron,
3	ACTIVATED CARBON FILTER		
	Quantity	:	One No.
	Type	:	Vertical with manual multi port valve
	MOC of VesselFRP	:	FRP1054
	Make	:	Ventura/ Pentair
	Operating flow Rate	:	2500 LPH
	Operating Pressure	:	6kg/cm2
	Type of Mounting	:	Side Mount
	MOC Of Valve	:	S.S
		:	
	Frontal Pipe Work	:	UPVC
	Filtering Media	:	Activated Carbon800 I D
	Back Wash duration	:	Whenever Pressure drop across the filter exceeds 0.8 kg/cm2
	Purpose	:	To filter out the color, Odor organic matter, microbiological impurities from the source water.

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4	ANTI SCALANT DOSING SYSTEM		
	Qty.	:1	One No.
	Type of Dosing Pump	:	Electronic Metering
	Make of Pump	:	E DOSE/positive
	MOC of Tank	:	HDPE By client
	Make of Tank	:	Syntax by client
	Capacity of Pump	:	0 –6 LPH @ 5 bar
	Capacity of tank	:	20litt.
	Application	:	To ensure non-adherence of scale causing salts on the membrane surface by adhering to the crystals of scale causing salts. Not much change in pH value.
5	MICRON CARTRIDGE FILTER		
	Quantity	:2	TWO Nos.
	Type of Cartridge	:	Replaceable, client
	MOC of Cartridge	:	PP
	Make of Cartridge	:	Kemflo / Puritex / Equiv.
	Diameter of Cartridge	:	2”or 4” inches
	Length of cartridge	:	20 Inches
	MOC of Cartridge Housing	:	FRP
	Make of Cartridge Housing	:	FRP RO / Pentair
	Capacity	:	2500LPH
	Micron Rating	:	5 micron
		:	
	Application of Cartridge	:	To protect the membrane and the high pressure pump from suspended particles.

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HIGH PRESSURE PUMP			
Quantity	:1	One No.	
Type	:	Vertical, Multi Stage, Centrifugal	
MOC of Pump	:	SS	
Make of Pump	:	CRI / SHAKTI	
Capacity	:	2000LPH	
Operating Pressure	:	2-13-Kg/cm ²	
Power consumption	:	2.0 HP S.P.	
Type of Drive	1:	Phase, 50 Hz. ,415 Volts	
Purpose	:	To transfer pre-treated water from RO Module at required pressure.	
RO MODULE			
Quantity	:	one Lot	
Item	:	RO Module consisting of Membrane Housing with RO membranes Mounted on skid.	
Type of Membrane	:	Thin Film Composite Spiral wound	
MOC of Membrane	:	Polyamide	
Make of Membrane	:	TFC / TOREY/ DOW / CSM	
Membrane Model No.		EW / BW 40 X 40	
MOC of Membrane Housing	:	FRP / PAITAIR / ALFA	
Size of Housing	:	TWO Elements 4040 ,	
Maximum Pressure	:	250 PSI	
Make of Membrane Housing	:	ALFA/Q- TECH // PANTAIR	
No. of Housings	2	TWO SIZE 4040	
No. of Membranes	2	40X40 TWO	
RO feed flow rate	:	2500 LPH	
RO permeate flow rate	:	500 LPH	
Operating Pressure	:	5– 10 kg/cm ²	
Recovery	:	50-70% (Approx.)	
Interconnecting Piping between HPP & RO module	:	UPVC	
RO skid	:	SS	
Application of membrane	:	To reduce dissolved salts present in water.	
Application of Cartridge	:	To particles from the product water sized up to 5 micron.	

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ANNEXURE – III

SCOPE OF SUPPLY

SR. NO.	COMPONENTS	QUANTITY/ PRICE
1.	Feed Water Pump with Motor	One
2.	Pressure Sand Filter - Pressure vessel - Initial charge of media - Frontal pipe-work and necessary valves.	One
3.	Activated Carbon Filter - Pressure vessel - Initial charge of media - Frontal pipe-work and necessary valves.	One
4.	Anti Sealant Dosing System	One
5.	Micron Cartridge Filter	TWO
6.	High Pressure Pump with motor.	One
7.	RO Module incorporating - RO Membranes - RO Pressure tubes - RO skid with panel -	TWO125 SET
	INSTRUMENTATION	
1.		
2.	Rotameter	Two
3.	LPS & HPS	TWO
4.	Pressure Gauge 0-28 Kg/cm ²	TWO
5	Piping and fittings (UPVC) with valves WITH BACK WASH	One Lot.(from raw water pump to final product tank)

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RS.

Terms & Conditions :

1. **Taxes** : All taxes extra.
2. **FOR** : **As Per Your Requirement**
3. **Payment** : fever in **SHREE RAM ENTERPRISES**
4. **Warranty** : One year on site. Consumable items like all pre filters not covered in warranty. Membrane cost will be worked out on 1 year
5. **Delivery** : 2 to 3 weeks after confirmation of purchase order..
6. **Validity** : This quotation valid for 20days.
7. **Installation** : Within 10
8. **Service** : Above mentioned price is inclusive of installation and ommissioning and one year free service.

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Premchand kumawat

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500-LPH RO-SYSTEM