

Ref:AAD/RO/11026/19-21

Date: 05-02-2021

To

M/S SANTHI MEDICAL INFORMATION CENTRE
Attapadi,
KERALA

Dear Sir/Madam,

Sub: Offer for 2500 LPH Drinking water-RO plant.

We thank you very much for giving this opportunity to us to introduce ourselves as a **Consultant cum Vendor for Water Treatment Plants** to fulfill your needs. Based on the discussion we undersigned with you regarding the requirement of Reverse Osmosis Water Treatment Plant to treat you river water.

This offer includes,

- Design Basis
- Process Description
- Scope of Supply
- Technical Specification
- Schedule of Exclusions
- Price Schedule
-

We hope this offer will suit your requirements and we are eagerly waiting for your call for further discussions.

Thanking you and assuring you our best services at all times.

For **AADHI SOLAR SOLUTIONS**



SUDARSAN LAKSHMANAN

Aadhi Solar Solutions.

2-C/2, Kumaran Nagar, Vilankurichi Post,
Coimbatore - 641 035. Tamilnadu, India.

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Design Basis:

Based on the Effluent Water Quality:

Raw water TDS	:	Less than 2000 PPM
Raw water pH	:	7.0-7.2
Iron	:	Nil PPM
Silica	:	Less than 30PPM
Feed Flow	:	5000 Ltrs/hr
Product Flow	:	2500 Ltrs/hr
Recovery	:	50%

PROCESS DESCRIPTION:

1. Pre-Filtration System:

The raw water from where it is fed to the Dual Media Filter (DMF) through a feed pump at required flow rate 3.5 kg/cm² to reduce the suspended solids and then in to the Activated Carbon Filter(ACF) to reduce the organic loads and Free Residual Chlorine(FRC).

2. RO Plant:

The filtered water from the pre-filtration is passed through the 10 & 5 Micron cartridge filters for fine filtration of water and make it for further feeding it to RO modules.

RO BLOCK

Fine filtrated water is fed to the RO membranes (Brackish Water) through HPP at a necessary pressure so that Reverse osmosis may occur and to get permeate of desired TDS.RO Block comprises of RO Membranes, Housings, High Pressure Pump, Low and High Pressure Switches, Control Panel, when required, all necessary instruments and interconnections piping and valves for adequate operation..

Advantages of RO plant:

1. Compact, Modular & Skid Mounted Plant.
2. Factory Tested and Inspected.
3. High-level plant automation.
4. Membranes & Pump Protection features.
5. Auto Flushing of membranes.

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**2500LPH - SCOPE OF SUPPLY & TECHNICAL SPECIFICATION**

S.No	Description	TECHNICAL SPECIFICATION	Qty	Make
01	Raw water pump	1.5m ³ /hr@30m Head	1 no	Cri/lakshmi
02	Pressure sand Filter	20 x 65 FRP with 40 nb MPV	1 Set	Wave Cyber (or) pentair
03	Activated Carbon Filter	20 x 65 FRP with 40 nb MPV	1 Set	Wave Cyber (or) pentair
04	Micron Filter Housing with Filter	2 1/2" Dia X20" Length	2 Nos	----
05	High Pressure Pump	4/16	1 no	Mahindra/ CRI
06	Membrane Module	4" Dia and 80" Length	5 no	AG/Equ
07	Membrane	4" Dia and 80" Length	5 no	Hydranautics (or) Filmtec
08	Flow meter	3/4" 160-3500 LPH, 3/4" 250-3500LPH	1 no	UKL/MMP
09	Pressure Gauge	2 1/2" Dial (1no Glycerin)	2 Nos	----
10	Inter connecting pipe lines & Valves	UPVC	1 Lot	----
11	Skid	STAINLESS STEEL	1 no	----
12	Dosing Pump	Antiscalent chemical	1No	Edos (or) equ
13	Control panel	1:3	1 No	ASTRA
14	LPS		1 No	DANFLOSS
15	HPS		1 No	DANFLOSS
16	Float		2 Nos	----
17	SV		1 No	----
18	UV FILTER 5000 LPH		1 No	----
19	SS WATER TANK	304 GRADE 5000 LITRE	2 NOS	
20	SS WATER TANK	304 GRADE 1000	5 NOS	

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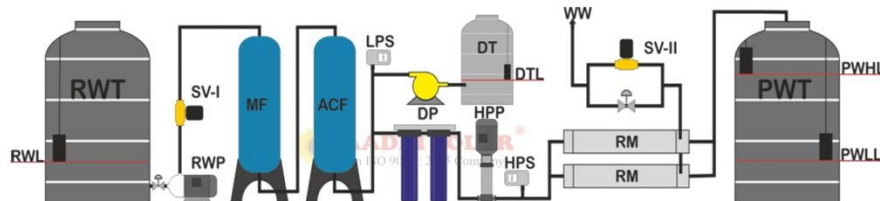
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		LITRE		
22	SS WATER TANK	304 GRADE 500 LITRE	5 NOS	
23	FOOD GRADE PLASTIC TANK	WHITE TANK- 5000 LITRE	2 NOS	
24	FOOD GRADE PLASTIC TANK	WHITE TANK- 5000 LITRE	2 NOS	
25	SOLAR WATER HEATER	SOLAR – 250 LPD	2 NOS	
26	ELECTRICALS & PLUMPING WORKS, WITH MATERIALS & INSTALLATION	CPVC AND PVC, WIRING MATERIALS	2 SETS	
27	CHEMICALS AND FILLTERS	FOR 1 YR SERVICE MATERIALS	1 SET	
28	EXTRA SPARE PUMP AND COTROL KIT	FOR EMERGENCY SPARES	1 SET	
29	REFILL CONTAINER	10 LITRES –	1500	

ANNEXURE – 7.1:: RO Plant Schematic Diagram



RWT : Raw Water Tank
 RWP : Raw Water Pump
 LPS : Low Pressure Switch
 DTL : Dosing Tank Level
 RM : RO Module
 PWHL : Permeate Water High Level

RWL : Raw Water Level
 MF : Media Filter
 DP : Dosing Pump
 HPP : High Pressure Pump
 SV II : Solenoid Valve
 PWLL : Permeate Water Low Level

SV-I : Solenoid Valve
 ACF : Activated Carbon Filter
 DT : Dosing Tank
 HPS : High Pressure Switch
 PWT : Permeate Water Tank



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SCHEDULE OF INCLUDES

1. All Electrical supply like incoming cables etc.,
2. Water pipe lines up to the incoming of the plant and out of plant.
3. All Storage Tanks & Treated water tanks.
4. Unloading, Handling and safe storage of materials at site.
5. Manpower, Tools & Tackles for Erection and Commissioning.

COMMERCIAL TERMS & CONDITIONS PRICE SCHEDULE

S. NO	Description	Price (Rupees)
1	Reverse osmosis plant at 2500 LPH (automatic) X 2NOS TOTAL 5000 LITRE PER DAY (18% GST INCLUDED)	Rs. 16,90,000/-

RUPEES; SIXTEEN LACK AND NINETY THOUSAND ONLY.

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Terms & Conditions:

1. **Delivery:** 7-15 days from the date of PURCHASE Order.
2. **Taxes & Duties:** GST INCLUDED
3. **Freight:** Actual (Extra)
4. **Payment Terms:**
 - 80 % Advance along with order, 20 % against supply of materials at site
6. **Validity:** 30 days from the date of this offer.
7. **Warranty:** 1 Year (Against Manufacturing Defects)
8. **Maintenance:** 2 year free for against Manufacturing Defects)(Special Offer)
9. **Extra Customer Scope:**
 - A. Civil Work And Materials
 - B. Ro Plant Sheet Work
 - C. Electrical point
 - D. Fabrication Work

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