

**GOVT.OF MAHARASHTRA**  
**PUBLIC HEALTH DEPARTMENT**  
**OFFICE OF THE CIVIL SURGEON,SINDHUDURG**  
**QUOTATION NOTICE YEAR 2024-25**

Civil Surgeon,Sindhudurg is inviting sealed quotation from qualified supplier for purchase of following category item .Interested & qualified supplier go through all annexures and fill up quotation.

1	Quotation call by - (Designation of Purchasing Authority )	District Civil Surgeon, Sindhudurg
2	Address of Purchasing Authority	District Hospital, Sindhudurg SindhudrgnagariTal.Kudal Dist. Sindhudurg Maharashtra Konkan Pin Code 416812
3	Telephone Number	02362-228900
4	e mail address	cssindhudurg@gmail.com
5	Working Hours	9.30 am to 5.45 p.m Each Saturday – 9.30 a.m to 2.00 p,m Sunday & Public Holiday Closed
6	Quotation Notice No.& Date	No/CSSND/DWH/CSRKDU/ /2025 Date- 13/1/2025 <i>scg</i>
7	Quotation Item Category	KIDNEY DIALYSIS MATERIAL
7	Description of Quotation Item	See Annex-2 for details of Items
8	Last Date, Time & place of Quotation Submission	21/1/2025 before 10.30 A.M District Warehouse Sindhudurg
9	Quotation Annexure	Annex 1 to 4
10	Date ,Time & Place of Quotation Opening procedure	21/1/2025 at 11.00 A.M Office of the Civil Surgeon,Sindhudurg
11	Validity of Quotation Rate	One year from Date of Acceptance
12	Final Authority of Quotation Acceptance or Rejection	District Civil Surgeon, Sindhudurg



## GENERAL INSTRUCTIONS FOR QUOTATION SUBMISSION

- 1) No any relaxation for Supplier Qualification Criteria.
- 2) Submission of quotation before last date & attendance in time for opening of quotation is the responsibility of supplier. If supplier fails to attend, procedure will be completed by authority.
- 3) Procedure for fill up quotation
  - Submission of Envelope Is required in Prescribed manner. Use OneEnvelope for One quotation. **Do not use item wise envelope**
  - **Fill up all items rate in Quotation Format**
  - Rate Format to be prepared on business letter pad only by computer typing.
  - Rate format duly sign by supplier with his/her name, business rubber stamp & rubber seal.
  - Attached required documents with self attested& stamp.
  - Make one set of above quotation document & put in one envelope.
  - Write Quotation No & Date with Category of Quotation.  
Put business rubber stamp & sign on envelope
  - After confirmation envelope to be seal by WAX SEAL ONLY
  - Do not write rate in handwriting or overtyping or use of whitener
  - Write mfg.co name do not write ANY STANDARD COMPANY. This type of Words quotation will be rejected without any notice or message.
- 4) Sealing of Quotation envelope by Wax seal only. Do not put rubber Stamp/seal/parcel tape etc.
- 5) Required self attested with supplier rubber stamp documents as per Category of quotation.( Xerox Copies)
  - 7.1) Drugs, Consumables, Laboratory items
    - Valid Date Wholesale Drugs license, Mfg.Co Authorization
    - PAN card
    - GST Registration Certificate
  - 7.2) Non Drugs items
    - PAN Card
    - GST Reg. certificate – if applicable or Supplier declaration
    - Mfg.Company authorization for medical equipment's & machines.
- 6) **Annexure Details**

Annex -1	- General Terms & conditions
Annex- 2	- Quotation Category Items Details
Annex -3	- Format for filling of rate
Annex -4	- Supplier Declaration
- 7) **Disqualification of quotation**
  - (1) Failure of required supplier Technical qualification
  - (2) Late receipt of quotation envelope
  - (3) Rate format submission not in proper format & multiple mfg.co. rate
  - (4) Non filling of all items rate in quotation
  - (5) Non submission of required documents & document without self attested.
  - (6) Non submission envelope in proper manner



- (7) NSQ Drugs Company in this hospital past period. or blacklisted firm in Maharashtra state or other state

**ANNEXURE -1**  
**GENERAL TRERMS & CONDITIONS FOR QUOTATION SUBMISSION**

1	Qualification for Drugs & Consumables, Laboratory item ( Kits/Reagents/Chemicals/Sera)	Wholesale Drugs License from Food and Drugs Administration Form No.20 B & 21 B Condition – Valid Drugs Sale License GST Certificate, Mfg.Co Authorization PAN Card of Owner or his/her Firm
2	Qualification for Non Drugs Item	PAN Card GST Certificate if applicable as per
3	Authority Letter from Original Mfg. Company or their Main Dealer or CNF	In case of Medical Equipment's & Machine
4	Rate & Quantity	Inclusive of all taxes Handling of material Free Installation, Quantity may increase or Decrease in rate accepted period.
5	Transport	Inclusive
6	Delivery	Drugs –7 days Non Drugs – 10 days
7	Delivery Destination	District Hospital, Sindhudurg SindhudrnagariTal.Kudal Dist. Sindhudurg Maharashtra Konkan Pin Code 416812
8	Warranty for Electronic Equipment's & Machine	One year from Date of Installation
9	Acceptance of Rate	Required Minimum 3 qualified Quotation. Lowest rate is acceptable for purchase
10	Mode of Submission of Quot. Envelope	Front of Envelope Write Quot. No & Date Category To, District Civil Surgeon, Sindhudurg District Hospital, Sindhudurg SindhudrnagariTal.Kudal Dist. Sindhudurg Maharashtra Konkan Pin Code 416812
11	Quotation submission Method	Hand Delivery or own risk by post or Courier. Only by Hard copy/no e mail
12	Bill of Quantity	It may be Increase or decrease in Acceptance period.



13	Court Jurisdiction	Sindhudurg
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14	Disqualification and rejection of Quotation	<ul style="list-style-type: none"> <li>(1) Failure of required supplier Technical qualification</li> <li>(2) Late receipt of quotation envelope</li> <li>(3) Rate format submission not in proper format &amp; multiple mfg.co. rate</li> <li>(4) Non filling of all items rate in quotation</li> <li>(5) Non submission of required documents &amp; document without self attested.</li> <li>(6) Non submission envelope in proper manner</li> <li>(7) NSQ Drugs Company for this hospital/dist.in past period. or blacklisted firm in Maharashtra state or other state</li> </ul>
15	Supplier Attendance in Quot. Opening procedure in time.	Supplier in person should attend, if he/she is unable to attend he/she appoint authorize person with letter and appropriate ID Proof. If supplier not attend for procedure, procedure will be continued in presence of committee member.
16	Termination of Accepted Rate	Failure of Supply in stipulated period Sub Standard drugs, Mfg. company
17	Rights of Quotation	Civil Surgeon,Sindhudurg



  
 Civil Surgeon, Sindhudurg

-ANNEXURE -2 -

**QUOTATION ITEMS FOR PURCHASE**

Sr.No	Name of Item	Unit	Approx. Unit Cost with GST and transport	Required Quantity
1	Dialyzer Reprocessing Machine See DHS Tech. Specification	1 No	624560/-	1 No
2	R.O.Plant 2000 Liters for Kidney Dialysis Machine See Attached Tech.DHS Specification	1 No	275611/-	1 No

Supplier should attach-

- 1) Above both product Colour Photo with Braucher
- 2) Technical Specification to be attested by Mfg.co
- 3) Performance report from any Kidney Dialysis Unit
- 4) Mfg.Co or Main Dealer or CNF Dealer authority letter for sale



  
Civil Surgeon, Sindhudurg

**ANNEXURE -3**  
**QUOTATION RATE FORMAT –ON BUSINESS LETTERPAD**

Date

To,

The Civil Surgeon  
District Hospital, Sindhudurg  
Sindhudurg nagari Tal. Kudal Dist.  
Sindhudurg Maharashtra Konkan Pin Code 416812

Sub- Submission of Quotation....

Ref- Your office Quotation Notice No.

Date.

Respected Sir/Madam,

With ref.to above subject I/We are herewith submitting  
quotation for Govt. Hospital purchase.

Sr,No	Name of Item with Technical Specification	Unit	MRP or Market Price or Previous Sale Price	Unit Rate for Quotation	Mfg.by Full Name of Company



Prop.Name, Signature of Supplier  
Seal & Rubber Stamp

## ANNEXURE -8

व्यवसायाचे लेटरपॅडवर खालील नमुन्यात जाहिरनामा तयार करावा.

### स्वघोषणापत्र

- (१) मी/आम्ही असे जाहिर करतो कि,या दरपत्रकामध्ये किमान मुल्यापेक्षा अधिक दर नमुद केलेले नाहीत अथवा बाजारभावापेक्षा अधिक दर नमुद केलेले नाहीत.या दरपत्रकात नमुद करणेत आलेली उत्पादक कंपनी किंवा माझा व्यवसाय काळयायादीतील नाही.मी किंवा माझे व्यवसायातील नोकर वर्ग यांचा जिल्हा शल्य चिकित्सक,सिंधुदुर्ग किंवा त्यांचे अधिपत्याखालील संस्था या मध्ये कोणतेही नाते वा हितसंबंध नाहीत.
- (२) मी/आम्ही असे जाहिर करतो कि,माझे/आमचे व्यवसायाचे जीएसटी - वस्तु व सेवा कर याची नोंदणी झालेली असुन वार्षिक आर्थिक उलाढाल रु.२०.०० लक्ष पेक्षा अधिक असलेने जीएसटी - वस्तु व सेवा कर परतावा नियमित भरणेत येतो.
- (३) मी/आम्ही असे जाहिर करतो कि,माझे/आमचे व्यवसायाचे वार्षिक आर्थिक उलाढाल रु.२०.०० लक्ष पेक्षा कमी असलेने जीएसटी - वस्तु व सेवा कर या बाबतची नोंदणी केलेली नाही.

(२) व (३) पैकी जे आवश्यक आहे हे ठेवुन इतर खोडावे.

स्थळ -

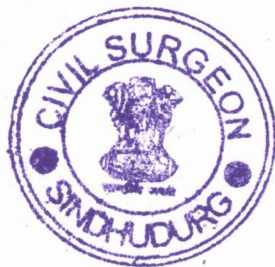
दिनांक -

नांव,सही,रबरी शिक्का



# Technical Specifications

- ① Dialyzer Reprocessing machine
- ② R.O. plant - 2000 ltr





# Specification for Dialyzer Reprocessing Machine

## Dialyzer Reprocessing System

- Fully automated / computerized dialyzer reprocessing system.
- High standardization in cleaning, volume measuring, leak testing and chemical disinfecting.
- No external dilution / minimize chemical contact.
- Separated mixing and volume tanks to minimize cross contamination.
- Automatically shut down after system disinfecting.
- One dialyzer reprocessing at one time.

## Dialyzer Reprocessing

- Reprocessing process: Automatic cleaning, volume measuring, leak testing and chemical filling.
- Should be able to process all types and brands of dialyzers.
- Volume measuring range =25-300ml ????/
- Volume measuring accuracy  $\pm 5\%$
- Leak test method, low limit setting should be specified.

## ELECTRICITY REQUIREMENT

- Voltage :  $220 \pm 10\%$  , 50-60 Hz
- Temperature 10-35 degree
- Humidity 10-80%

## WATER REQUIREMENT

- RO or DI water in accordance with AAMI standard for hemodialysis
- Input pressure 25- 55 psi
- Flow rate 1.2-6.0 liters/minute
- Water consumption 14 to 30 liters/dialyzer



### CHEMICAL REQUIREMENT

- Mention the chemical required for your reprocessor . It should be peracetic acid based sterilant. Mention its chemical composition. It must be easily available.
- Quantity per dialyzer to be specified .

### SAFETY ALARMS, AUDIBLE AND VISIBLE ALARMS

- Loose connector
- Dialyzer volume priming failure.
- Leak test failure.
- Empty Solution.
- Self test and disinfection interlock
- Priming volume lower than limit.
- Incoming water pressure failure.

### DISPLAY

- LCD , backlight with auto shut off
- Data display, reprocessing data
- Failure message.
- Facility to test & display residual volume & membrane integrity
- Status
- Date and time

### REPROCESSING TIME

- 10-16 minutes / dialyzer

### Others

- Printed report of the fiber bundle volume test and pressure leak test through printer after reprocessing of the dialyzer .
- Sample port for fluid testing/ or any microbial contamination checking
- Roller for printing (paper)
- Three years warranty and should provide technical support and required spares and consumables for 2 years after warranty period is over. AMC for 5 years will be required, duly supported by their principals.



- It should follow international standard and safety requirements.
- User's list with the addresses and contact Nos. to be provided.
- Demonstration is compulsory.
- Training to MEC Engineers.
- Operating and detailed service manual should be supplied.
- Service in Mumbai must be available & good.

OPTIONAL

- Data management system.
- Sterilant volume indicator cartridge

*Geeta*  
15/4/18

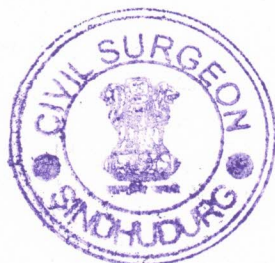
Dr. Mrs. Geeta S. Sheth  
Associate Professor  
Department of Nephrology  
GGMC & Sir J. J. Group of Hospitals.  
Byculla, Mumbai-400 008.

*Prabh*  
D. D. D. D. D.  
6/10/18 RRM  
Passer & P. D. D.  
Not indicated

*Jadhav*  
Dr. Jadhav Swa  
RRM Nashik  
21/9/18

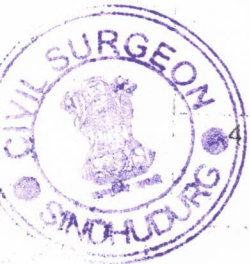
*Prabh*  
M. G. Katre

Sr. BME, RRM Nashik



# Technical Specification of R.O. Plant (2000 ltr)

Sr No.	Technical Specification
	Bed Capacity 20-25. ( This will depend upon hemodialysis machine)
	The system should be sufficient for online operation of 10 machines with pu water capacity of 1500 liters per hour.
	The system should comprise of pretreatment modules such as sand filter, activated carbon filter, water softener, 5 micron particulate filter, before the reverse osmosis unit and post R.O UV light. Disinfection and Bacterial Filter (0.25 micron) Endotoxin retention filter is desirable for yielding high purity water.
	All pretreatment modules should have back wash and regeneration facilities. These stages should be designed to handle water flow to support R O flow requirement. Generally 50 - 60 % more than permeate flow. ( there should be auto back) flush system.
	R.O. Unit should be compact in sleek cabinet, housing membrane, high pressure pump and bypass mechanism. The control unit should be microprocessor microcontroller controlled. A 5 micron filter should protect the membrane.
	The entire, unit should have adequate monitoring permeate water conductivity, feed water pressure and permeate and rejection flow rate.
	The water distribution loop, booster pump and storage water tank should be made up of stainless steel, Storage water tank should have capacity of at least 10,000 litre (made of SS) with water level controller, Outlet valves and easy cleaning provisions.
	<b>TREATMENT SCHEME</b>
1)	<b>Raw Water Feed Pump</b> Raw water from raw water storage tank or nearby header will be pumped to Filtration plant with the help of centrifugal pump.
2)	<b>Multigrade Sand Filter</b> Raw water is filtered with the help of Multigrade Sand Filter to reduce the suspended solids / turbidity to less than 1 NTU. The filter is operated at the flow rate of 1500 liters/hr and will be backwashed daily. Backwash flow rate for the filter is 4000 liters/hr. The sand filter is designed to operate at the velocity of 23.0 m/h. Filter vessel is of FRP construction. The filter media consists of specific quality of graded sand. To perform various operations of backwash and rinse manual top mounted multipart valve is provided.
3)	<b>Activated Carbon Filter</b> To remove the chlorine present in the filtered water, we have considered one no. of Activated Carbon Filter. The filter is operated at the flow rate of 1200 liters/hr and will be backwashed once in a day. The MOC for vessel is FRP. To perform various operations such as Normal, Backwash and Rinse, manual top mounted multipart valve is considered.
	<b>Micron filtration</b> The feed water will be passed through a cartridge filter of 5 micron rating before entering the reverse osmosis system. The micron filter is considered to prevent



*M.G. Katro*  
Sr. BME, RRA Nalhar

*Geetha Sheth*  
Dr. Mrs. Geeta S. Sheth  
Associate Professor  
Department of Nephrology  
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Bavalla, Mumbai

*Dr. Jyoti*  
Dr. Jyoti S. Jyoti  
6/8/18. RRA  
Nalhar

*Dr. Swapnil*  
Dr. Swapnil  
RRA Nalhar

Sr No	Technical Specification
	<p>the membranes from choking. Micron filter is of PP construction. Necessary sampling valve and pressure gauges will be provided.</p> <p><b>Reverse Osmosis Module</b>  The filtered water will be pumped by means of a high-pressure pump through the R O Module consists of 2 nos. of SS 304 Pressure tubes &amp; 2 nos of membranes. Around 50% of the feed water will be available as permeate or product water and balance 50% will be reject stream, which will be the effluent from RO plant. R O Module has 2 nos. of pressure tubes and each will have 1 membrane in it. However recovery can be increase by reticulating reject water in feed flow.</p>
6	<p><b>RO Water storage Tank</b>  Permeant water produced is at atmospheric pressure, hence for further treatment it is collected in storage tank.</p>
	<p><b>TECHNICAL DETAILS</b></p> <p><b>Feed Pump</b>  Type centrifugal, horizontal  Discharge Capacity 2.5Kg/cm<sup>2</sup>(min).  Material of construction 55304  Motor Rating 1.0HP  Electrical Requirement- 220V, Single Phase</p>
	<p><b>Mulligrade Sand Filter</b>  Needed Flow Rate 1500 lit/hr  Minimum Pressure 1.5 Kg/cm<sup>2</sup>  Material of construction FRP  Backwash Duration / Freq. 10 —15 Minutes / Once in a day  Type of valve Top mounted multiport valve</p> <p><b>Activated Carbon Filter</b>  Needed Flow Rate 1200lit/hr  Minimum Pressure 1.5 Kg/cm<sup>2</sup>  Material of construction FRP  Backwash Duration / Freq. 10-15 Minutes / Once in a day  Type of valve Top mounted multiport valve</p>
	<p><b>Water Softener</b>  Diameter x Height 13 inches x 54 mm  Needed Flow Rate 2000 lit/hr  Max./Minimum Pressure 3.5/2.0 Kg/cm<sup>2</sup>  Material of construction FRP  Regeneration frequency: 2/ week or depending on post softener Hardness.  Type of valve Top mounted multiport valve</p>

*[Signature]*  
M.G. Kataria  
G.B.M.E., R.R.H.Nashik

*[Signature]*  
Dr. Mrs. Geeta S. Sheth  
Associate Professor  
Department of Microbiology  
GGMC & S. J. J. Group of Hospitals,  
Byculla, Mumbai-400 028

*[Signature]*  
M. N. N. N.  
D. J. J. J.

*[Signature]*  
Mr. Swapnil  
R.R.H.Nashik  
21/9/18



(No) Technical Specification

**Micron Cartridge filter**

Flow rate 1200 lit/hr  
Numbers offered 1  
MOC Housing / Element PP  
Micron rating 5 micron (20 inch long)

**High Pressure Pump**

Type Vertical Multistage  
Capacity 1200 lit/hr  
Material of construction Stainless Steel (SS 04)  
Motor kW / hP / RPM 3.0 / 2.0 / 2900  
Electrical connection 3 Phase, 415 V, 50 Hz

**R.O. Module**

R O Permeate Capacity 1500 liters/hr Permeate  
R O Recovery 60 %  
Feed flow to RO module 2000 liters/hr  
Reject from RO module 800 liters/hr  
Size of Membrane 4' Dia x 40" Long I.3  
Purification plant should be CE ( Should be from Notified Bod) OR US FDA  
CERTIFIED

Product water should be of AAMI STANDARD

Two Year warranty with 5 years comprehensive maintenance Contract should be included.

Prices of consumables should be quoted separately and it will be fixed for five years. List of consumable attached

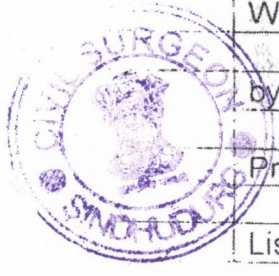
Water Chemical Analysis & Endotoxin test of RO plant will be bidders responsibility. It should be perform monthly, Endotoxin and chemical analysis (month) during Warranty & in CMC Period by bidder. Also submit the test reports/ documentations to user department.

Bidder should provide Six monthly Maintenance as per AAMI standard during Warranty & in CMC Period

by bidder. Also submit the test reports/documentations to user department.

Product water testing will be responsibility of supplier.

List of Consumables :-



*[Signature]*  
MGK/TH  
D.BME/RRH  
Nishal

*[Signature]*  
15/9/18  
Asst. Secy  
Department of Municipal  
Health & Sanitation, Group of Hospitals  
Mumbai, Mumbai-400 008.

*[Signature]*  
Rohit Nair  
D. J. Singh  
15/9/18

*[Signature]*  
Dr. Saapnil  
Tadhar  
RRH Nohhill  
15/9/18

Sr.No.	Technical Specification
1.	Micron Filter
2.	Sterile Filter (0.2 micro, 10")
3.	Sand Filter Media
4.	Carbon Filter Media
5.	Water Softener Media
6.	Salt for Regeneration.
7.	R.O. Membrane
8.	TDS meter ( TDS Meter )

*M.G. Katre*  
M.G. Katre

BME, RPH Nashik

*Geeta S. Sheth*  
15/1/18

Dr. Mrs. Geeta S. Sheth  
Associate Professor  
Department of Nephrology  
GGMC & Sir J. J. Group of Hospitals,  
Byculla, Mumbai-400 008.

*Dr. Sunil Sadhav*  
21/9/18  
Dr. Sunil Sadhav  
Nashik

*Dr. Sunil Sadhav*  
Dr. Sunil Sadhav  
Nashik  
21/9/18



## Technical Specification of Water treatment system

Bed capacity 10. ( This will depend upon haemodialysis machines)

The system should be sufficient for online operation of 10 machines with pure water capacity of 500 liters per hour.

The system should comprise of pre treatment modules such as sand filter, activated carbon filter, water softener, 5 micron particulate filter, before the reverse osmosis unit and post R.O UV light Disinfection and Bacterial Filters (0.25 micron) Endotoxin retention filter is desirable for yielding high purity water.

All pre treatment modules should have back wash and regeneration facility. These stages should be designed to handle water flow to support R.O flow requirement. Generally 50 -60 % more than permeate flow. ( there should be auto back) flush system

R.O. Unit should be compact in sleek cabinet, housing membrane, high pressure pump and bypass mechanism. The control unit should be microprocessor/ microcontroller controlled. A 5 micron filter should protect the membrane.

The entire unit should have adequate monitoring permeate water conductivity, feed water pressure and permeate and rejection flow rate.

The water distribution loop, booster pump and storage water tank should be made up of stainless steel. Storage water tank should have capacity of at least 500 litres with water level controller, outlet valves and easy cleaning provisions.

### TREATMENT SCHEME

#### (1) Raw Water Feed Pump

Raw water from raw water storage tank or nearby header will be pumped to Filtration plant with the help of centrifugal pump.

#### (2) Multigrade Sand Filter

Raw water is filtered with the help of Multigrade Sand Filter to reduce the suspended solids / turbidity to less than 1 NTU. The filter is operated at the flow rate of 1500 liters/hr and will be backwashed daily. Backwash flow rate for the filter is 4000 liters/hr. The sand filter is designed to operate at the velocity of 23.0 m/h. Filter vessel is of FRP construction. The filter media consists of specific quality of graded sand. To perform various operations of backwash and rinse, manual top mounted multiport valve is provided.

#### (3) Activated Carbon Filter

To remove the chlorine present in the filtered water, we have considered one no. of Activated Carbon Filter. The filter is operated at the flow rate of 1200 liters/hr and will be backwashed once in a day. The MOC for vessel is FRP. To perform various operations such as Normal, Backwash and Rinse, manual top mounted multiport valve is considered.

#### (4) Micron filtration

The feed water will be passed through a cartridge filter of 5 micron rating before entering the reverse osmosis system. The micron filter is considered to prevent the membranes from choking. Micron filter is of PP construction. Necessary sampling valve and pressure gauges will be provided.

*D/MS*

*B. H. H. H.*

*Dr. A. A. A.*  
Director





→ P.O. water to be supplied to  
reprocessing room & must have  
pressure of 35 PSI *Agulita*

(5) Reverse Osmosis Module

The filtered water will be pumped by means of a high-pressure pump through the R O Module consists of 2 nos. of SS 304 Pressure tubes & 2 nos. of membranes. Around 50 % of the feed water will be available as permeate or product water and balance 50 % will be reject stream, which will be the effluent from RO plant. R O Module has 2 nos. of pressure tubes and each will have 1 membrane in it. However recovery can be increase by reticulating reject water in feed flow.

(6) RO Water storage Tank

Permeate water produced is at atmospheric pressure, hence for further treatment it is collected in storage tank. SS tank ; 1000 lit capacity *Agulita*

TECHNICAL DETAILS

Feed Pump

Type centrifugal, horizontal

Discharge Capacity 2.5Kg/cm<sup>2</sup>(min).

Material of construction SS304

Motor Rating 1.0HP.

Electrical Requirement:- 220V, Single Phase.

Multigrade Sand Filter

Needed Flow Rate 1500 lit/hr

Minimum Pressure 1.5 Kg/cm<sup>2</sup>

Material of construction FRP

Backwash Duration / Freq. 10 - 15 Minutes / Once in a day

Type of valve Top mounted multiport valve

Activated Carbon Filter

Needed Flow Rate 1200 lit/hr

Minimum Pressure 1.5 Kg/cm<sup>2</sup>

Material of construction FRP

Backwash Duration / Freq. 10 - 15 Minutes / Once in a day

Type of valve Top mounted multiport valve

Water Softener

Diameter x Height 13 inches x 54 mm

Needed Flow Rate 2000 lit/hr

Máx / Minimum Pressure 3.5 / 2.0 Kg/cm<sup>2</sup>

Material of construction FRP

Regeneration frequency: 2/ week or depending on post softener Hardness.

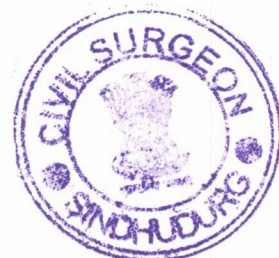
Type of valve Top mounted multiport valve

*Agulita*

*Agulita*

*Agulita*

*Dr. Anwarul Haque  
Nashik*



Micron Cartridge Filter  
Flow rate 1200 lit/hr  
Numbers offered 1  
MOC Housing / Element PP  
Micron rating 5 micron (20 inch long)

High Pressure Pump  
Type Vertical Multistage  
Capacity 1200 lit/hr  
Material of construction Stainless Steel (SS 304)  
Motor kW / hp / RPM 3.0 / 2.0 / 2900  
Electrical connection 3 Phase, 415 V, 50 Hz

R.O. Module  
R O Permeate Capacity 500 liters/hr Permeate  
R O Recovery 60 %  
Feed flow to RO module 2000 liters/hr  
Reject from RO module 800 liters/hr  
Size of Membrane 4" Dia x 40" Long  
Purification plant should be CE (Should be from Notified Bod) OR <sup>US</sup>FOA CERTIFIED

Product water should be of AAMI STANDARD

Two Year warranty with 5 years comprehensive maintenance Contract should be included.

Prices of consumables should be quoted separately and it will be fixed for five years. List of consumable attached.

*Water chemical analysis*

Endotoxine test of RO plant will be bidder's responsibility. It should be performed monthly during Warranty, & in CMC Period by bidder. Also submit the test reports/documentations to user department.

*[Endotoxin] & chemical analysis (monthly)*

Bidder should provide Six monthly Maintenance as per AAMI standard during Warranty & in CMC Period by bidder. Also submit the test reports/documentations to user department.

Product water testing will be responsibility of supplier.

List of Consumables:-

1. Micron Filter
2. Sterile Filter (0.2 micro, 10")
3. Sand Filter Media
4. Carbon Filter Media
5. Water Softener Media
6. Salt for Regeneration.
7. R.O. Membrane
8. TDS meter

*Sting*

*Chellur*

*Pathan*  
*Dr. Prasad*  
*Munir*  
*S. S. M. Nishik*

