



All India Institute of Medical Sciences Jodhpur

Admn//Prop/08/2017-AIIMS.JDH

Dated: - 22nd June, 2017

Subject: Purchase of RO Plant (1000 Liters / Hours) for Hemodialysis Unit for the department of Nephrology at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of RO Plant (1000 Liters / Hours) for Hemodialysis Unit for the department of Nephrology at AIIMS, Jodhpur from M/s Fresenius Medical Care AG & Co. KGaA, 61346, Bad Homburg, Germany on proprietary basis. The proposal submitted by M/s Messrs Scientific Engineering Works, B-116, Swasthya Vihar, Delhi and PAC certification by user are attached.

The above document are being uploaded for open information to submit subjection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/08/2017-AIIMS.JDH. The comments should be received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 17th July 2017 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,

Administrative Officer

Enclosed: Related documents enclosed.



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INDIA

Proprietary Certificate

To whom it may concern:

We, **Fresenius Medical Care AG & Co. KGaA, 61346 Bad Homburg, Germany**, hereby certify that the below mentioned water treatment equipment is the proprietary item of Fresenius Medical Care AG & Co. KGaA.

S.N.	Item	Article No.
1.	AquaBplus 1000	F00003300

Fresenius Medical Care India Pvt Ltd. Is an affiliated company and ultimately owned by Fresenius Medical Care AG & Co. KGaA.

Only **M/s Fresenius Medical Care India Pvt Ltd.** or any other authorized representative as appointed by **M/s Fresenius Medical Care India Pvt Ltd** is authorized to bid, negotiate, sell, service and conclude the contract in regard to this business in India.

Bad Homburg, 06.04.2017
Place and date



**FRESENIUS
MEDICAL CARE**
Fresenius Medical Care AG & Co. KGaA
61346 Bad Homburg - Germany

i. A. Dorothea Hoffmann
Associate Medical Device Regulatory

i. V. Wolfgang Decker
Director Medical Device Regulatory Affairs
& Quality Management

Fresenius Medical Care AG & Co. KGaA
61346 Bad Homburg - Germany

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नैदानिकी विभाग
जोधपुर

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**FRESENIUS
MEDICAL CARE**
THE RENAL COMPANY

MANUFACTURER'S / PRINCIPAL'S AUTHORIZATION FORM

Dated 10th April 2017

To,
The Administrative Officer,
All India Institute of Medical Sciences,
Jodhpur

Dear Sir,

We, **Fresenius Medical Care India Pvt. Ltd, 100% subsidiary of Fresenius Medical Care, Germany** who are established and reputable manufacturers of **Aqua B Plus & Consumable** having factories at **Bad Homburg, Germany** hereby authorize **Messrs Scientific Engineering Works, having office at B- 116, Swasthya Vihar, Delhi – 110092.**

No company or firm or individual other than **Messrs Scientific Engineering Works, having office at B- 116, Swasthya Vihar, Delhi – 110092.** are authorized to bid, negotiate and Supply material to AIIMS Jodhpur.

Thanks & Regards,

Authorized Signatory,

V. Vishnu Kumar
National Sales Manager
For and on behalf of Messrs
Fresenius Medical Care (India) Pvt. Ltd,
M: +91 9176917200
Email ID: Vishnu.Kumar@fmc-asia.com

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Fresenius Medical Care India Private Limited

CIN- U24231DL2006FTC147436

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Specification of Reverse Osmosis Water Treatment Plant for Hemodialysis Unit

- All maintenance including spare parts (electrical, mechanical, plastic etc.) software consumption should be included in warranty period and in CMC Charges.
- RO unit should maintain by manufacturer, supplier, or authorized dealer through skilled staff.
- Water testing (chemical and bacterial) should be included in maintenance and should be done once every six months.
- Only those vendor will be consider having in-house service facility in India.
- All piping (of PEX material) and plumbing work related to unit as per design of unit should be provided by supplier at its cost.
- Manufacturing company should have an installation base of more than 10 RO systems in India in which at least 25% of them should be of 1000 liter capacity or more.
- The bidder must submit at least one performance certificates from government hospitals/institutions where a similar RO plant has been installed.
- Tender should be quoted with full quality assurance certificate (EC certificate).
- Company should provide onsite demonstration if deemed necessary.
- Service engineer for repair and maintenance should be provided by Manufacturer certified local representative or Principal Company.
- Quotation should also include appropriate environmental preparation of the area housing plant.
- Bidder may inspect the propose dialysis unit/building plan of dialysis unit for preparing the site along with Pre Requisite.
- After sales service centre should be available at city of institution on 24 (hrs.) X 7(days) X 365 (days) basis. Complaints should be attended properly, maximum within 24 hrs.
- Undertaking by the principle that the spare for the equipment shall be available for at least 10 years from the date of supply of equipment's.

Pre Treatment

- Pre-treatment should have a mesh filter of 100 microns.
- There should be an automatically controlled solenoid valve to fill the raw water tank.
- Raw water tank having food grade quality at least 1000 litres capacity to store raw water.
- Sand filter with sand particles of different grade should have fully automatic backwash & rinse cycle every day.
- Particle filter, cartridge filter type of 20 microns must be sufficient for handling the required capacity.
- Should have built in dual column softener with fully automated digital display, brine fill and clean cycle. It should be also have a brine tank incorporated in the system.

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- Dual Carbon filter with fine carbon granules should have fully automatic backwash cycle & rinse cycle every day.
- Should have fine filter, cartridge type of 5 micron must handle required capacity.

RO UNIT

- Should be microprocessor based dual RO system which should produce water as per AAMI standard.
- The complete system should be fully programmable.
- Should have inbuilt ability to show conductivity of permeate produced, temperature, yield, permeate output supply.
- Should have 1000 litre/ hour of permeate.
- Should have dynamic water saving technology and rinsing system available.
- Yield setting should be between 50%- 70%.
- Would operate on three phase supply.
- Bidder should visit the site to know sufficient uninterrupted power supply supply for complete RO System.
- Should be automatic controlled disinfection cycle.
- In built capabilities to show on display for permeate (supply in litre/min, temperature) & for raw water (consumption in litres/min).
- Should have programmable fully automated rinse cycle for membrane wash.
- There should be a provision of OFF line mode for DRS and bi carb preparation and online mode of permeate Supply for HD Machines
- It should be possible to use permeate supply to run the dialysis machines directly without collecting permeate to tank.
- Data storage and LAN connectivity for recording and monitoring respectively.

Post treatment system

- Should have permeated/ RO output water storage tank of at least 1000 Litres capacity and above and tank must be conical shape to avoid collection/stagnation of treated water at base of tank.
- Required to ensure uninterrupted dialysis.
- Should have sub-micron bacterial filter of 0.2 microns manually back washable.
- Should have flow indicator of wall mounting type showing litres/ min supply and to build back pressure of distribution Loop system.
- One additional booster pump should be supplied with the system.
- Should have Stainless steel, 316 grade push-pull type stainless connector for water Outlet at dialysis machine connecting points for minimum 15 point and provision to increase more in number.
- Provision of U-V filter at the final treated water supply point would be desired.

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Standards, safety and training

- The system should accept feed water hardness up to 1dH
- Output water quality should match AAMI, ISO & EUROPEAN standards for Haemodialysis Water
- The unit shall be capable of operating continuously in ambient Room temperature of 10-25 Degree C and relative humidity of 15-90%
- Should be European CE or US FDA approved product
- Manufacturer/Supplier should have ISO certification for quality standards.
- All consumables (i.e. all types of filters, membranes, disinfectants and salt tablets etc.) should be quoted separately and must be provided with RO Plant for the further smooth running of Reverse Osmosis system (Plant) during the warranty and after the warranty.
- Comprehensive warranty for ~~three~~ ^{Five} years.

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