

AMENDMENT-XII

HSCC/SJH/Medical Equipment/2017

06.07.2017

Ref.: IFB No. HSCC/SJH/Medical Equipment/2016/29 Dated 29.03.2017

Sub.: Procurement of Medical Equipment for New Emergency Block & Super- Specialty Block at Safderjung Hospital, New Delhi.

Pre bid queries are being examined regarding item no. 3 (Haemodialysis Machine SLED), it is proposed the bid submission date is extended from 06.07.2017 to 13.07.2017.

Regarding item no. 2 (Haemodialysis Machine Regular Type (8no.) with R.O. Plant for Haemodialysis Machine (1no.)) the amendment has been received the detail is given below. the bid submission date is extended from 06.07.2017 to 13.07.2017.

Existing As:

Sr. No.	Item	Qty./Requirements	EMD (INR)
2	Haemodialysis Machine Regular Type (8no.) with R.O. Plant for Haemodialysis Machine (1no.)	For Nephrology Deptt. in Pathology Lab. in Super-Specialty Block	2,20,000.00

Amended as:

Sr. No.	Item	Qty./Requirements	EMD (INR)
2 A	Haemodialysis Machine Regular Type (8no.) with R.O. Plant for Haemodialysis Machine (1no.)	For Nephrology Deptt. in Pathology Lab. in Super-Specialty Block	1,60,000.00
2. B	R.O. Plant for Haemodialysis Machine (1no.)	For Nephrology Deptt. in Pathology Lab. in Super-Specialty Block.	60,000.00

Amended Specification are as under :

Item No. 2. A

Haemodialysis Machine (Regular Type) 8no.

1. Technical specifications:-

1. Capable of providing conventional hemodialysis and high flux dialysis
2. Facility for Acetate, Bicarbonate, dry powder & Sequential dialysis (Isolated UF)
3. Should have appropriate filters for preparation of ultra-pure dialysate, with endotoxin retention capacity of at least 10^6 IU Built in NIBP Na and Ultra filtration profiling.
4. Audio visual alarms :
Conductivity and automatic bypass Air detection and automatic clamp
Temperature and automatic bypass Water and dialysate flow alarm Arterial and venous pressure alarms.
5. Optical/photo blood leak detector and ultrasonic air detector.
6. Wide range dialysate temperatures selectivity (34 to 39 deg. C)
7. Variable conductivity setting (13 to 15.7 mS/cm)
8. **Existing As:** Wide dialysate flow rates options (300-700 ml/min with increments of 100 ml/mt)

Amended as : Wide dialysate flow rates options (300-700 ml/min)

9. Wide range blood pump flow option (50-500 ml/min with increment of 10 ml) adaptable to standard, A- V bloodlines Facility to show treatment parameter trends, Heparin pump with variable syringe size with wide infusion rate (in 0.1 ml/hr increments) Wide ultra filtration range (0.1 to 3.5 kg/h) with volumetric control Integrated heat and chemical disinfection facility Online measurement of effective urea clearance (kt/V).
10. All important data be pre-settled so that machine can be used without feeding data every time Automatic self test facility.

2. LCD Display with touch pad or touch screen as UI

1. Appropriate Operating voltage for Indian conditions, with battery backup of at least 30 mins.

Accessories

Existing As: COMPULSORY accessories, which are must for smooth and safe running of machine must be quoted along with machine including Data Processing computer and printer if required.

Amended as : COMPULSORY accessories, which are must for smooth and safe running of machine must be quoted along with machine including Data Processing computer and printer if required.(It refer to machine consumables)

2. Environmental factors and power supply

- i. Shall meet General Requirements of Safety for Electromagnetic Compatibility.
- ii. The machine shall be capable of being stored continuously in wide range of temperature (0-50 deg C) and relative humidity (15-90%)
- iii. Capable of operating in wide ambient temperature (20-30 deg C) and wide relative humidity.
- iv. Power input : 220-240V/ 50 Hz AC Single phase or Three phase fitted with appropriate Indian plugs and sockets.
- v. **Existing As :** Suitable Servo controlled Stabilizer/CVT/UPS should be supplied, if required

Amended as : Point Deleted

3. Standard, safety, demonstration, training, warranty and maintenance .Electrical safety conforms to standards for electrical safety.
4. Should be FDA/European-CE/IVD certified
5. The bidders must quote for *FIVE years* Comprehensive Warranty for complete equipment (Including all spares and labour)
6. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.
8. Company should be in market for at least five years
9. Machine should have been supplied in atleast 3 major government institutions
10. Machine demonstration has to be done in the Safdarjung Hospital, New Delhi. Time and date of demonstration will be as per department decision
11. Training of the hospital staff if required should be done by the manufactures.
12. **Existing As :** All spare parts (Electronic, Mechanical, plastic etc) required as such or due to wear and tear should be included in warranty period and in Comprehensive AMC period. Also all parts/components provided locally should also have to be maintained by company. Sole responsibility of warranty and CMC will be of the parent company.

Amended as : All spare parts (Electronic, Mechanical, plastic etc) required as such or due to wear and tear should be included in warranty period and in Comprehensive AMC period. Also all parts/components provided locally should also have to be maintained by company. Sole responsibility of warranty and CMC will be of the parent company. (Refer to spare parts only. Endotoxin filter and disinfectant excluded.)

13. Elective visit once a week day as decided by the department.

14. Preventive machine maintenance regularly as per machine requirement in Safdarjung Hospital, Delhi. Response time for acknowledgment of complaint 30 minutes. Response time for physical presence within one working day

Documentations

- i. ORIGINAL user and service manual in English to be provided
- ii. Certificate of calibration and inspection to be provided, if required
- iii. Attach ORIGINAL manufacturer's product catalogue and specification sheet
- iv. Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point , if not substantiated with authenticated catalogue/manual, will not be considered.
- v. A complete list of the government institution, where machine has been supplied along with the name, designation, mobile and office contact details of the person handling the machine should be provided Machines details and brochure should also be available on company website
- vi. **Existing As** : List of important spare parts and accessories with their part number and cost should be provided.

Amended as : List of important spare parts and accessories with their part number and cost should be provided.(To deal with situations such as accidental damage/ misuses where spare parts may not be covered in warranty.)

- vii. List of Equipment available for providing calibration and routine Preventive Maintenance Support, as per manufacturer documentation in service/technical manual should be provided.
- viii. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist should be provided.
- ix. The job description of the hospital technician and company service engineer for maintenance of machine should be clearly spelt out.
- x. If some component/part of machine or its accessories are to be provided by Indian counterpart/agent, that should be very clearly defined in the bid and its cost should be clearly separated out.

Note: Internal electrical work/changes if required at the site of the installation of the equipment will be done by the supplier during the installation. The supplier should visit at site where equipment to be installed.

Item No. 2B

R.O. Plant (1no.) for Haemodialysis Machine

Description of Function

- i. Supply, erection, commission, testing, operation and maintenance of water treatment plant suitable for supplying water for 20 hemodialysis machines and two dialyser reprocessing machine with necessary supportive arrangement like pre-treatment, RO Unit, Post treatment unit, electrical panel, RO panel, measuring devices etc for the proper functioning of the plant in the hemodialysis unit with the quality of treated water as per AAMI standard.

General Conditions:

- i. Installation should be on Turnkey basis
 - ii. The RO System should be quoted with *Five years warranty* followed by five years CMC charges.
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- iii. All maintenance including spare parts (Electronic, Mechanical, plastic etc), software updates and all consumables (i.e. All types of Filters, Membranes, disinfectants and salt consumption) should be included in warranty period and in CMC Charges.
 - iv. RO Unit should be maintained by Manufacturer, supplier or authorized dealer through skilled staff.
 - v. Water testing (chemical and bacterial) should be included in maintenance and should be done once every six months.
 - vi. Only those vendors will be considered having in-house service facility in India.
 - vii. ALL piping (of PEX material) and plumbing work related to unit as per design of unit should be provided by supplier at its cost.

- viii. Manufacturing company should have an installation base of more than 10 RO System in India in which at least 25% of them should be of 1000 liter capacity or more.
- ix. The bidder must submit at least three performance certificates from government hospitals/institutions where a similar RO plant has been installed.
- x. Tenders should be quoted with full quality assurance certificate (EC Certificates)
- xi. **Existing As:** Company should provide onsite demonstration if deemed necessary.
- xii. **Amended As:** Company should provide onsite demonstration if deemed necessary or at the site where similar RO System has been installed.

- xiii. Service engineer for repair and maintenance should be provided by manufacturer certified local representative or parent company
- xiv. Quotations should also include appropriate environmental preparation of the area housing the plant. Bidder may inspect the proposed dialysis unit / building plan of dialysis unit before preparing the final quote to assess the amount of work.
- xv. After sales service centre should be available at the city of Institution on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 8 hrs.
- xvi. The service should be provided directly by Bidder/Indian Agent. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

Pre-treatment

- i. Pre-treatment should have a Mesh Filter of 50 microns.
- ii. There should be an automatically controlled Solenoid Valve to fill the Raw Water Tank.
- iii. Raw Water Tank having food grade quality for at least 750 Liters capacity to store Raw Water.
- iv. Sand Filter with sand particles of different grade should have fully automatic backwash & rinse cycles every day.
- v. Particle filter, cartridge filter type of 50 microns to 10 microns.
- vi. Should have build in dual column softener with fully automated digital display, brine fill and clean cycles. It should also have a brine tank incorporated in the system.
- vii. Carbon filter with fine carbon granules should have fully automatic backwash cycle & rinse cycle every day.
- viii. Should have fine filter, cartridge type of 5 micron & 1 micron.

RO Unit

- i. Should be Microprocessor based fully automatic RO System which should produce water as per AAMI Standard
- ii. The complete system should be fully programmable.
- iii. Should have inbuilt ability to show conductivity of permeate produced, temperature, yield, permeate output supply.
- iv. Should supply 1500 Liter /hour of permeate.

- v. Should have dynamic Water-Saving Technology and rinsing system available.
- vi. There should be facility to upgrade system by adding additional membrane to increase capacity. Yield setting should be between 50% - 70%.
- vii. Would operate on 3-phase supply.
- viii. Appropriate Online UPS required for RO Plant should be included in the total cost
- ix. Should have automatic volume controlled disinfection cycle
- x. In built capabilities to show on display for Permeate (Supply in liter/min, Temperature) & for Raw

Water (Consumption in Liters/min & Pressure)

- xi. Should have programmable fully automated rinse cycle for membranes wash.
- xii. There should be a provision of OFF line mode and ONLINE mode of Permeate Supply.
- xiii. It should be possible to use permeate supply to run the dialysis machines directly without collecting permeate to tank.

Xiv Should have facility for automated heat disinfection of the distribution loop

Post Treatment System

- i. Should have appropriate material and shape Permeate Storage Tank of at least 750 Liters capacity with level control system.
- ii. Should have sub-micron bacterial filter of 0.2 microns manually back washable.
- iii. Should have Flow Indicator of Wall mounting type showing Litres / Min Supply and to build back pressure.
- iv. One additional booster pump should be supplied with the system.
- v. Should have Stainless Steel, 316 grade Push-Pull type Stainless Steel Connectors for Water outlet at Dialysis machine connecting points for 25 points.

Note: Internal electrical work/changes if required at the site of the installation of the equipment will be done by the supplier during the installation. The supplier should visit at site where equipment to be installed.

Amendment to be issued will be uploaded on websites www.tenderwizard.com/HSCC & www.hscltd.com.

All other tender terms and conditions remain unchanged

Medical Superintendent
VMMC& Safdarjung Hospital

