



Department of Nephrology

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Neph/KEM/2016/2/430

Date: 25/2/2016

Sealed tender is invited from manufacturers or their sole authorized distributors/ sole agents for the purchase of following items

Sr. No.	Name of the Item	Quantity	Department	Due date of Opening of tender
1	Portable R/O plant	1	Nephrology	03/03/2016
2	Body composition monitor	1	Nephrology	03/03/2016
3	Electronic weighing scale	1	Nephrology	03/03/2016

Terms and conditions:

1. Tender documents for the above items can be obtained from the following website (www.kem.edu).
2. The competent authority reserves all rights to reject any or all tenderers without assigning any reason.
3. The uploaded tender documents duly signed & Stamp and other relevant documents must be submitted in physical form in the office of the Ward 34A, dept. of Nephrology, Seth G.S. Medical & KEM Hospital, Parel, Mumbai -12 on or before the dates as noted against item by 11.00 am on any working day.
4. The tenderer can approach in the office of Ward 34A, dept. of Nephrology, Seth G.S. Medical & KEM Hospital, Parel, Mumbai -12 on any working day for any query/clarification regarding tenders.
5. All information relevant to the tender is also available at the following website: www.kem.edu

Dr. N.K. Hase,
Prof. & Head,
Dept. of Nephrology
Seth G.S.M.C. & K.E.M.H.

SPECIFICATION FOR PORTABLE RO PLANT :

Capacity 120 Liters/Hour. It should be completely portable built in one single cabinet. Cabinet should be made of stainless steel with easy portability. It should be microprocessor controlled. It should have automatic programs for rinsing, permeate supply and disinfection. It should be online RO with permeate output capacity should be 120 liters/hour. It should support minimum 2 dialysis machines at a time. It should have clear digital display to monitor the working parameters of R.O. Plant. It should have online monitoring for working parameters which are permeate Water Conductivity, Permeate Water Temperature, feed water pressure, feed flow rate. It should have inbuilt Raw water filter of 10 micron, Activated Carbon Filter cartridge of 5 micron, dual Water softener columns with automatic regeneration facility, inbuilt brine tank for preparation of brine (NaCl solution for regeneration), High Pressure Pump, R.O. Membrane, U.V. Light protection. It should run on single phase 230 VAC, 50Hz. It should be US FDA or CE certified. The feed water quality to the Portable R.O. Plant will of a standard of Portable Water Quality.

SPECIFICATION FOR BODY COMPOSITION MONITOR (BCM):

Tenderers must indicate below, point by point, whether their offered equipment complies fully with the tender specification. Details must be given should the offered product differ from the specification.

Yes

No

(Please tick as appropriate)

1) General:

- 1.1 It should work under bioimpedance spectroscopy technology with an physiologic tissue model
- 1.2 The system should be validated against gold standard references in both patients and healthy subjects.
 - 1.2.2 Lean Tissue Index (LTI) [Kg/m²]
 - 1.2.3 Fat Tissue Index (FTI) [Kg/m²]
 - 1.2.4 Total Body Water (TBW) [L]
 - 1.2.5 Extracellular water (ECW) [L]
 - 1.2.6 Intracellular water (ICW) [L]
 - 1.2.7 ECW/CIW
 - 1.2.8 Lean Tissue Mass [Kg] & [L]
 - 1.2.9 Fat Mass [Kg]
 - 1.2.10 Adipose Tissue Mass [Kg] & [L]
 - 1.2.11 Body Cell Mass [Kg]
- 1.3 The system should be specially designed for patient with Kidney failure and normal healthy individual, which should be capable of providing the following measurement with data and units:
 - 1.3.1 The system need to measure for the pediatric patient with special dedicated electrodes.
- 1.4 The system need to be validated with Peritoneal dialysis patients.
- 1.5 The system need to store the results on the Individual Patient Card
- 1.6 The system need to instruct the operator for abnormal movement of the patient

2) Fluid Management Tood (FMT) software:

- 1.1 The system should display results relative to reference ranges of healthy individuals and dialysis patients
- 1.2 The system should need to show each patient's progress by depicting the results in plots for easy monitoring

1.2.1 Body composition Graph

1.2.2 Over hydration Graph

1.2.3 Hydration reference graph

1.2.4 LTI and FTI Graphs

1.2.5 Nutrition reference Graph

- 1.3 The system should need to allow export of all plots and tables for further analysis

- 1.4 The system should need to allow the combined analysis of blood pressure and fluid overload

- 1.5 The system should need to offers convenient data management:

1.4.1 Organize patients into groups

1.4.2 Add missing data, comments or ID create new patients and patient groups

3) Technical requirements:

3.1 Measurement time approx.2min

2.2 Data output: LC-Display; integrated Smart Card writer

1.3 Measuring frequency range: 50 discrete frequencies in the range from 5-1000kHz

2.4 Battery backup- Capacity 5 hours, which need to measure 150 patients.

2.5 AC adapter: 100-240 V AC; 50-60 Hz

2.6 Operating conditions: 0 -350C, 30-70% humidity

2.7 Medical product calss: Ila

3) Accessories:

- 3.1 The offer shall be completed with all necessary accessories which are essential for the normal operation of the equipment. Details shall specified by tenderer(s) complete with itemized price(s). Hospital authority reserves the right to accept all or part(s) of the offer.

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- 3.3 The Successful ender shall be keep reasonable stock level for normal necessary consumable items.

5) Operation Training:

The successful tender shall be providing the operation program to end user.

6) Warranty Maintenance:

The successful tender shall provide a comprehensive maintenance warranty for the equipment on offer for period of at least 12 months commencing from the date of acceptance of the equipment.

7) Installation:

The successful tenderer shall be responsible for the installation of the equipment.

SPECIFICATION FOR ELECTRONIC WEIGHING SCALE

1. Capacity upto 200kg
2. Digital Display with Xerox facility