

**Amendment - II****Ref.: IFB No. HSCC/SJH/Medical Equipment/2015/3 Dated 15.05.2015**

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

As per the DGHS letter no. F. No. Z-28015/40/2015-MHI dt. 19.6.2015 (enclosed) the following amendment is to be issued:

**To be read as:****For Biochemistry Lab. Equipment for New Emergency Block**

- **Item No. 9 Fully Automated Clinical Chemistry Analyzer – 1no. For Biochemistry Lab. of Emergency Block – Deleted**
- **Item No. 10 Bio-Chemistry Auto Analyser 16 channel (For New Emergency Block)**
  1. Fully automated, discreet, Multi-Channel, Random, access clinical chemistry analyzer with ISE .System should be single unit workstation and not smaller throughput units joined together.
  2. Assay modes: photometric end point, kinetic , indirect, ISE bichromatic and immunoturbidimetric, Latex agglutination.
  3. Throughput: The equipment should have throughput of atleast 800 photometric tests/ hour and combined throughput (photometric and ISE) should be atleast 1000 to 1200 tests/hour.
  4. Sample type- Plasma, serum, urine, CSF and other fluids analysis facility.
  5. Must be programmable for all test menus and state of art work station.
  6. Must have built in cooled reagent compartment to maximize reagent stability and have atleast 50 positions for reagents..
  7. Must have continuous loading of samples with on board capacity of atleast 50 sample cuvettes/tubes/ cups and facility for stat sample running.
  8. Should have pre and post auto dilution of sample and rerun capacity for out of range samples. Also there should be facility for serial dilutions in multipoint calibration. Should have internal and external cleaning/ washing facility. Should accommodate atleast 50 samples in single run. Probes should have long life of atleast 24 months. Calibrator and control with repeat facility.
  9. Automatic printout of reports with full patient demographic.
  10. Probe dispenser must have level detectors and separate probes for samples and reagent R1 & R2. Cuvette mixing by variable speed atleast two stirrers/ultrasonic mixing for immunoturbidimetry tests. Must typically use between 2-25 micro litre sample. Reading volume 200 microlitre or less. Must have cuvette cleaning facility or with disposable cuvette.
  11. Spectral range 340-800nm by diffraction grating optics/filters.
  12. Light source halogen/xenon lamp should be covered under warranty.
  13. Provision for barcode reader facility.
  14. Comprehensive and full training of all users by supplier for operating equipment and

trouble free maintenance at installation point.

15. The system must be supplied with necessary pre-requisites and startup kits free of cost with required calibrators and controls for 3 months @500 tests/day for the following parameters: glucose, urea, creatinine, sodium, potassium, total bilirubin, AST, ALT, Alkaline phosphatase.

Calcium, phosphorus, Total protein, albumin 100 / day.

CK, CK-MB, LDH, direct bilirubin, and amylase @25 tests/day .

Calibrators for all the above tests in suitable volume of 1-3 ml @ 30 ml/month or more, Controls for all the above tests (normal and abnormal ) in 1-5ml capacity @ 60 ml each/month or more must also be provided.

The technical bid document must include the following details in a tabulated form:

- a. Name of the test
- b. Kit size
- c. Number of kits likely to be used per month as per the workload depicted above.

Depending on the above workload as mentioned above, price quotation of individual test parameters , kit/pack size indicating the number of tests per kit, rate per kit, number of kits required per month and total cost of the kits per month, per year and per five years must be made by the vendor.

**These prices of kits will be frozen for 5 years.**

**FOR PRICE COMPARISON PURPOSE:** The total cost of these reagents will be added to the equipment cost and CMC from 6<sup>th</sup> to 10 years.

**FORMULA : The price per test X number of tests/day as per above point X 365 days X 5 Years .**

This formula must be used for purpose of calculating the kit prices quotation in the price bid and evaluation of the same. The bidders must also quote any other reagents, consumable, disposables, buffers and wash for the tests listed above for the required number as mentioned above. All these rates shall be considered for price bid evaluation. Any consumable not quoted in this table but essential for performing the above listed tests shall have to be supplied free of cost for the entire workload during the validity of the contract. The rate will be reviewed after 5 years.

Further in addition to the above tests, the firm should provide details of all other parameters, which can be done on the analyzer, quoted by the bidder and are manufactured by the bidder in terms of kit, number of tests per kit and rate per kit in a tabulated form for all the parameters. **These rates will also be frozen for five years. However, these rates will not be used for price bid evaluation.**

16. Should have US FDA/ European CE approved certification

17. Models quoted should be latest on production line of manufacturer and manufacturer's certificate for this should be provided.
18. Logbook for instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician & company service engineer should be clearly spelt out.
19. Complete circuit diagram and service manual and operating manual must be provided. User/technical/maintenance manuals to be supplied in English. Supplier must provide original documentary proof of the date and place of manufacturing of the supplied equipment.
20. Certificate of calibration and inspection.
21. **Installation & satisfactory functioning reports of atleast last 2 year.**
22. Should be capable of upgradation and /or onsite integration if required.
23. Site preparation while installation apart from plumbing etc.
24. Comprehensive warranty for 5 years and next 5 years CMC after warranty which will include all the components with all consumables, batteries, filters, cells, bulbs etc.
25. Compliance report Performa ( Mandatory ) : Compliance report to be submitted and point wise manner clearly saying 'Yes/No' in the compliance proforma also clearly mentioning the page/para number of original catalogue/data sheet against 'Yes' in brackets for easy reference for the JPC. In the absence of compliance report , tender will be summarily rejected. The compliance report should be signed by Authorised signatory of the Manufacturer/ supplier.

#### Computer System

1. Personal computer having window XP, Pentium IV processor, DVD-RAM with touch screen color monitor, with key board and printer etc.
2. Quality control: real time, individuals and cumulative quality control with automatic QC programming with L-J graphs . Printing of QC chart & reports.
3. Software :
  - i. Compatible, programmable windows based user friendly software with comprehensive data processing and management system.
  - ii. Graphical user interface software for unidirectional and bidirectional
  - iii. LIS and HIS capability. It should also be able to link to comp teleservice functioning for QC data / calibration data downloading.
  - iv. Complete backup of data base for calibration, control and patient sample result.
  - v. At least 1,00,000 patient result storage and multitasking facility computer.

#### Water purification unit:

1. All vendor should supply the compatible water treatment RO plant for instrument along with necessary plumbing and adequate size storage tank. They will have to check hospital's water quality before supplying water plant.
2. All related plumbing for whole instrument with suitable diameter pipes for input as well as drain water should be done by the company. Also suitable stand for water purification system and storage tank should be provided.

#### UPS

Equipment should be supplied with compatible online UPS for entire machine with at least 30 min battery backup.

Reagent, kits , Accessories :

1. Manufacturer must be manufacturing the reagents/kits needed for the machine
2. Assured supply of spares and consumables for 10 years atleast.

**Quantity changed from 1 no. to 2nos. EMD changed from Rs.32,000/- to Rs.1,60,000/-.**

**Item No. 11 ABG & Electrolytes Analyzer (For New Emergency Block)**

A fully automatic, fast, precise blood gas analyzer with following features:

1. Measured parameters: pH, PCO<sub>2</sub>, pO<sub>2</sub>, Cl, Na, K, Ca, **Hb/Hct.**
2. Calculated parameters: Std. pH, pCO<sub>2</sub>, pO<sub>2</sub>, **aH<sup>+</sup>**, HCO<sub>3</sub>, Std.HCO<sub>3</sub>, O<sub>2</sub> Sat, **BE**, BEecf, BB, O<sub>2</sub> content, TCO<sub>2</sub>, all at patient's temperature
3. Sample size: **upto 150uL**
4. Throughput: 40 samples per hour
5. Readout time: Less than 1 min.
6. **Printer: Suitable in-built/external printer**
7. Calibration: Automatic in cycle system
8. Display: Digital display on the screen
9. **Electrodes: Maintenance free/low maintenance with shelf life not less than 1 year. Electrodes should be individually replaced(and not as single pack/cassette/ cartridge together)**
10. Memory: More than 100 patients memory
11. Should have USFDA/European CE approved product.
12. Manufacturer must be manufacturing reagents/kits needed for the machine.
13. Five years warranty & 5 years post warranty CMC.

**Quantity changed from 7 nos. to 6 nos. EMD changed from Rs.96,000/- to Rs.82,000/-.**

- **Item No. 12 Automated Urine Analyzer – 1 no. (For New Emergency Block) – Deleted**
- **Item No. 13 Fully Automatic Chemiluminescence Immunoassay Analyser- 1no. (For New Emergency Block) – Deleted**

## New Items Added

### Item No. 14 : SPECIFICATIONS FOR HOT AIR OVEN (Medium)

1. Double walled construction with inner chamber made up of stainless steel and outside made in mild steel finish. The Gap between the two walls filled with glass wool insulation to provide maximum thermal efficiency. Should be provided with fully insulated door.
2. Heating elements made of high grade chrome plated wire.
3. A high efficiency air circulation system that provides uniform air movement as well as improved temperature distribution.
4. Thermostat based control for temperature with Electronic Digital Temperature controller should be provided .
5. Temperature range: 50°C TO 250°C with accuracy  $\pm 2^{\circ}\text{C}$ .
6. Adjustable Trays should be supplied with G.I. / S.S wire mesh.
7. Capacity: 80 -120 L
8. Heater load: minimum 2 - 2.5 KW
9. Electrical supply: 220/230V AC, 50/60H
10. The equipment should have ISO/US-FDA/European-CE certification .
11. Calibration certificate.
12. Log Book with instruction manual.
13. Comprehensive warranty for 5 years.
14. Compliance Report Performa (Mandatory) : Compliance report to be submitted in a tabulated and point wise manner clearly saying 'Yes/No' in the Compliance Proforma, also clearly mentioning the page/para number of original catalogue/data sheet against every 'Yes' in brackets for easy reference for the JPC. In the absence of compliance report, tender will be summarily rejected. The compliance report should be signed by authorized signatory of the manufacturer/supplier.

**Requirement: 2no. for Biochemistry Lab. + 2 no. For Pathology Lab. Of New Emergency Block = 4nos.**

**EMD : Rs. 4,000/-.**

**Item No. 15 : SPECIFICATIONS FOR LABORATORY REFRIGERATOR**

1. Vertical , Frost Free model
2. Capacity : approx. 1000 Litres
3. Temperature: 2-8<sup>0</sup>C temperature maintenance
3. Self closing and lockable glass doors
4. Compartments: 5 -6 adjustable shelves
5. CFC and HCFC free refrigeration system
6. LED display for temperature with high and low temperature alarms.
7. The equipment should be provided with wheels to move freely.
8. Suitable voltage stabilizer/UPS
9. The equipment should have ISO/ US-FDA/European-CE certification .
10. Comprehensive warranty for 5 years and CMC for next 5 years. The cost of CMC for 6<sup>th</sup> – 10<sup>th</sup> year should be mentioned.
11. Compliance Report Proforma ( Mandatory) : Compliance report to be submitted in a tabulated and point wise manner clearly saying 'Yes/No' in the Compliance Proforma , also clearly mentioning the page/para number of original catalogue/data sheet against every 'Yes' in brackets for easy reference for the JPC . In the absence of compliance report , tender will be summarily rejected. The compliance report should be signed by Authorized signatory of the Manufacturer / Supplier.

**Requirement: 3no. for Biochemistry Lab. + 1 no. For Pathology Lab. Of New Emergency Block = 4nos.**

**EMD : Rs. 8,000/-.**

**Item No. 16 : SPECIFICATIONS FOR LAB. CENTRIFUGE MACHINE**

1)	Table top model
2)	Should be able to separate serum / plasma from whole blood.
3)	Tube capacity 24-36 , size 5-15 ml tubes / vacutainers with adapters for varying sizes
4)	Body should be made up of strong , corrosion resistant steel
5)	Digital display for speed and time controls
6)	Door interlock
7)	Speed 100-6000 rpm or above
8)	Swing rotors
9)	Power input 220-240 volts, 50 hz
10)	ISO, FDA or CE certified
11)	Caliberation certificate
12)	Log book and instruction manual
13)	<u>Comprehensive Warranty for 5 years</u>
14)	<u>Compliance Report Performa ( Mandatory) : Compliance report to be submitted in a tabulated and point wise manner clearly saying ‘Yes/No’ in the Compliance Proforma , also clearly mentioning the page/para number of original catalogue/data sheet against every ‘Yes’ in brackets for easy reference for the JPC . In the absence of compliance report , tender will be summarily rejected. The compliance report should be signed by Authorized signatory of the Manufacturer / Supplier.</u>

**Requirement: 2no. in Blood Bank of Super-Specialty Block + 4no. in Blood Bank & 5 no. in Biochemistry Lab. of New Emergency Block = 11 nos.**

**EMD : Rs. 22,000/-.**

Amendment to be issued will be uploaded on websites [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC) & [www.hscltd.com](http://www.hscltd.com).

**The bid submission date for Biochemistry Equipment is revised from 24.6.2015 to 03.7.2015.**

**For Item No. 1, 2, 3, 4, 5, 6, 7 & 8 (Neurology, Nephrology & PET/CT) the bid submission date extended from 24.6.2015 to 10.7.2015. Their Technical amendment will be issued in due course.**

All other tender terms and conditions remain unchanged.

**Medical Superintendent  
Safderjung Hospital & VMMC,  
New Delhi.**