

**JAMIA HAMDARD
HAMDARD NAGAR, NEW DELHI-110062
NOTICE INVITING TENDER**

Sealed Quotations are invited from Original Equipment Manufacturers/Authorized Partners/Distributors for the supply and installation of the following equipment for HAH Hospital of HIMSR.

The Multipara Monitor are required as per the specification given below.
20 units of Multipara monitors are required.

General Specifications:

1. All the material /equipment should be European CE or US FDA.
2. All the Electronic equipment's should comply with Electrical safety conforms to standards for electrical safety IEC 60601-1.
3. All the equipment's power input should be 220- 240V AC, 50Hz fitted with Indian plug.

Technical Specifications

- Parameters – ECG, heart rate, respiratory rate, SpO₂, NIBP, Dual IBP (optional), EtCO₂ (optional), Dual Temperature.
- The equipment should come with all standard accessories required to run all parameters.
- Waveform display: at least 12 channels at a time, user selectable.
- Digital display: ECG, Heart rate, respiratory rate, oxygen saturation, temperature, Blood Pressure (systolic, diastolic, mean).
- Should be Modular and capable of being connected to a central station.
- System should be compatible with HIS.
- System should be US FDA & European CE approved for quality assurance.
- Monitor must be able to connect to central monitoring station and should use single network for all kind of networking with the central station or other hospital information system (HIS). It should have dual display, one for continuous display of all beds and other for trend review, full disclosure etc.

Individual Monitors:

- Wall-mountable and pivotable.
- Medical grade, TFT Flat screen, slim size, at least 19" display.
- Flexible display mode for various monitoring needs.
- Should be knob control and touch screen.

- Viewing angle at least 90°.
- Bigger font of numeric should also be available.
- Should have standby mode for temporary leaving of patients.
- Adjustable contrast and brightness.
- Should have facility to record data for individual patients identifiable by their name and hospital registration number

The following modules complete with their accessories for each monitor:

- Heart rate
- ECG
- Respiration
- Oxygen saturation
- Temperature: 2 ports
- Non-invasive Blood pressure
- Invasive blood pressure 2 ports (optional)
- EtCO₂ (optional)

➤ *Heart rate/ECG:*

- *10-lead selectable ECG*
- *Built in arrhythmia monitoring in all leads*
- *Inbuilt ST segment analysis and arrhythmia detection facility*
- *Display of 2 ECG leads simultaneously at a time*
- *Heart rate range 20-250 bpm*
- *Accuracy ± 5 bpm*
- *Display sweep speeds 12.5, 25 mm/sec (user adjustable)*
- *Averaging time: user selectable up to 8 seconds*
- *ECG amplitude user adjustable*
- *Defibrillator protected*

➤ *Respiratory rate*

- *Measured by transthoracic impedance using the same ECG lead*
- *Range 0 to 150 breaths/min*
- *Accuracy ± 2 bpm*
- *Display sweep speeds 6.25, 12.5 & 25 mm/sec (user adjustable)*
- *Averaging time: user selectable up to 8 seconds*
- *User selectable apnea alarm time*

➤ *Oxygen Saturation*

- Masimo-SET/FAST Technology to take care of low perfusion states and motion artifacts
- Dual wavelength LED pulse oximetry
- Range 1 to 100%
- SpO₂ accuracy: ± 2 % (70-100% range)
- Averaging time: user selectable up to 8 seconds
- Plethysmographic waveform display
- System must display perfusion index (PI %) from SpO₂ as an indication of pulse strength at the sensor site.

➤ *Temperature*

- 2-channels
- Continuous digital display of two site temperatures
- Range: 25-50 degree Celsius
- Resolution: ± 0.1 degree Celsius
- Accuracy: + 0.1 degree Celsius
- Should provide skin temperature probe and rectal temperature probe for every monitor

➤ *Noninvasive Blood pressure:*

- Capable of measuring blood pressure including in neonates weighing 500 g
- Microprocessor software with unit in mmHg
- Oscillometric technique
- Manual, auto and time limited stat modes
- User selectable automatic time intervals
- Display systolic, diastolic and mean BP
- Blood pressure range

Systolic : 30-250 mm Hg

Diastolic : 10-200 mm Hg

Mean: 20 – 100 mmHg

- Pulse rate range : 20-250 bpm
- Cuff : auto deflate with over pressure protection
- Should automatically establish zero reference after each reading

➤ *User selectable alarms*

- High and low heart rate
- High and low respiratory rate
- Apnea with adjustable time 5-20 seconds
- High and low saturation

- High and low SBP
- High and low DBP
- High and low MAP
- Probe failure
- Poor signal
- Power failure
- Audio & visual alarms with message with separate alarm indicator with 3600 viewing.

➤ *Trends*

- Memory storage : at least 72 hours
- Data display interval : not more than 20 sec
- Display range : last ½ hour to 72 hours
- Graphical and tabular format of display of variables
- Full waveform disclosure of 24 hrs.

➤ *Power*

- 220/240 V 50/60 Hz AC
- Rechargeable internal / external battery with a backup of at least 1 hr

➤ *Manuals: One set of operator & service manuals with each monitor*

➤ *Availability of spares for at least 10 years after date of installation*

➤ **Warranty and CAMC:**

➤ *The Parties should provide the details of CAMC and AMC amount separately for the period of 5 years.*

➤ *The Warranty which the parties are intended to provide for the equipment should be quoted separately.*

➤ *Comprehensive warranty and CAMC would include all parts-plastic, metallic, glass, batteries and rubber except the consumable accessories list.*

Comprehensive warranty and CAMC would include periodic checking and periodic calibration of all parameters strictly as per manufacturer's recommendations (at least every 3 month) and any spares, gases or standards required for that.

➤ *Should have online and telephonic registration of the complaints*

➤ *The service engineer should be available 24 x 7 to solve the complaints.*

➤ *Down time of the equipment will start from the time of lodgement of first complaint.*

21. If machine is not made fully functional within 24 hours of the lodgement of complaint, a standby machine of similar configuration must be provided. Failure to

do so will invite an increase in the period of comprehensive warranty or CAMC by 7 times of the downtime period (i.e. 7 days for every 1 day of downtime).

22. Should be able to provide training of all healthcare personnel during first 3 month of installation in the group of 5 trainees per session.

23. Essential Accessories for 1 monitor.

The following quantities are to be supplied for every monitor with the initial order:

ECG/Respiration

- ECG patient cable: 1
- Oxygen saturation cable: 2 each for Adult, Paediatric & Neonatal

Temperature

- Reusable surface (skin) temperature probes: 1
- Reusable rectal temperature probes: 1

NIBP

- NIBP cuff – 2 each for Adult, Paediatric & Neonatal

IBP(optional)

- Transducer connecting cables: 2
- Reusable pressure transducer: 5
- Disposable pressure dome kit with neonatal flush device: 10

• Quotation must include a compliance statement and in addition, each of the above points is marked in the technical brochure. Points not covered in the brochure must be specifically addressed in a separate certificate.

Manuals:

- One set of operator & service manuals with each monitor
- Should be able to provide training of all healthcare personnel during first 3 month of installation in the group of 5 trainees per session.
- Onsite physical demonstration of the machine with all standard actual accessories of the same make which the firm intends to supply will be mandatory if demanded by the technical committee.

The Machine with all the accessories has to be left in the unit for demonstration on real patients for at least 1 week.

- Prices of the above consumable accessories should be quoted separately, which will be fixed for the duration of comprehensive warranty and CAMC (i.e., for 10 years)

Quoting Price and Rates:

- Rates should be quoted in full (indicating rates of items quoted, GST, Octroi, Insurance, Packing, freight etc) and separately.
- The total cost of accessory items along with the cost of machine will be considered for comparative purpose among companies.
- If the firm does not list any item in the tender, no payment will be made for the items required for complete operation of the machine.

24. Optional

- Should be able to remotely access the patient monitoring system via internet
 - System should be compatible with HIS
 - Patient monitor screen itself without need of additional server/PC/gateway hardware and software as standard supply.
 - License should be provided for at least 2 users.
 - Should provide with sturdy good quality stand to mount on wall.
- Basic parameters (ECG/heart rate, O2 saturation, NIBP, respiration & temperature)
– in all monitors
- Invasive BP module: in all monitors
 - Microstream end tidal CO2 module: in all monitors (optional)

Documentation

- User Manual in English
- Service manual in English
- List of important spare parts and accessories with their part number and costing
- Certificate of calibration and inspection.
- Instruction for daily, weekly, monthly and quarterly maintenance checklist.

Other required details included in the closed quote

- Detailed specification along with brochure
- User list & satisfactory performance certificate from the other institutions of the quoted machine
- All approved certification of the machine

Company should provide demonstration for the quoted products in the hospital itself for a week if the committee suggested.

The parties are requested to submit the quotation/tenders in the office of Head Finance & Administrative, HAHC Hospital New Building on or before 18.09.2017 at 4.00 p.m. The quotations/tenders shall be opened by the tender committee in presence of available interested parties. HIMSR & HAHCH reserves the right to reject any or all quotation/tenders or split the quotations/tenders without assigning any reason.

The quantity of the items mentioned in the tender notice can be increased or decreased, at any stage till the delivery of consignment is completed.

Incomplete tender/conditional tenders will not be accepted.

No tender will be accepted without the Demand draft for Rs 1000 drawn in favor of HAHC Hospital Payable at New Delhi.

Head Finance & Administrative