PRE BID CLARIFICATION/CORRIGENDUM No. 1
Dated: 17.10.2013

With reference to NIT published for Tender No. : AIIMS Bhopal/Stores/HC/RC-Critical Care Medicine Department Equipment/2013-14/01 Dated 09.09.2013 for Notice Inviting Tender for Supply of Anaesthesia Department Equipment to AIIMS BHOPAL.

Subsequent to the Pre bid queries sough for clarification, received through in person dated: 14.10.2013, 15.00 Hrs. the following Clarification/Corrigendum No. 1 to Pre Bid Queries raised are circulated for the wider information to the prospective tenderers and requested them to download Pre Bid Clarification/Corrigendum No. 1 and submit the same along with their “Technical Bid” Envelope.

Item No. 1:

Revised Technical Specifications:

TECHNICAL SPECIFICATION FOR MONITORS AND CENTRAL STATION (10 Nos. Critical Care Monitors +1 No. Central Workstation):-

Patient monitor system should be of modular type and capable of monitoring adult, pediatric & neonatal patients.

Monitor should have 17”-19” independent flat panel display.

Touch screen user interface.

Module rack / housing should be independent and shall be able to be placed near to the patient.

Should be capable of 12-16 traces display.

Facility to monitor and display - ECG, Respiration, NIBP, SpO2, CO2 with capnography, Temp, Cardiac output, NMT (Optional), BIS/Entropy (optional), EEG (optional), ICP monitoring (optional) & IBP – 3 Nos. Should be compatible with Capnography, Cardiac output, generalized EEG module and BIS and prices to be offered for each module to be quoted separately.

ECG should have capability for 3, 5 and / or 10 lead monitoring and should have built in arrhythmia monitoring on all leads.

Inbuilt ST segment analysis and arrhythmia detection for all the leads should be possible.

Haemodynamic and drug dose calculations should be available.
Arrhythmia should be grouped based on classifications – and should show no of arrhythmias occurred.

Respiration should be available with Cardio Vascular Artifact filter.

ICP monitoring should be possible.

Alarm parameter should flash red in the presence of high priority alarms (e.g. ventricular fibrillation and asystole) and flash yellow in the presence of medium or low priority alarms (e.g. noisy signal, etc.)

Upto 48 hours trend data should be displayed.

All monitors including central station should have similar user interface for easy usage among all clinicians.

Monitor shall provide the capability to interact with alarms at remote bedsides.

Monitor shall provide the capability to receive and display real-time waveforms, trended data and alarm status from other bedside or telemetry units on the patient monitoring network.

Monitor shall provide the capability enter patient information at the bedside or central monitor.

On-screen keyboard for entering this data is preferable. Should have USB ports to connect mouse, key board, bar code scanner.

Alarm limit status (ON/OFF) must be indicated on-screen for each parameter and actual parameter alarm settings must be displayed on-screen when alarms are on.

Position of the displayed waveforms must be user configurable.

Waveform color changing should be user configurable.

Monitor shall permit the ability to receive and display information from other patient devices such as ventilators, infusion pumps and other standalone devices.

All modules should be compatible with all monitors quoted

Bed to bed communication between the monitors should be possible with out a central station.

Networking to central station should be possible and price of central station should be offered as optional.

Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospital’s network infrastructure.

Should be compatible with HIS and should be HL7 compliant.

Monitor should provide remote viewing of real time waveforms through internet inside and outside the hospital with secure login
200 nos. event recall/snapshot facility both manually and automatically triggered by alarm.

Should be supplied with necessary accessories for adult, pediatric and neonatal accessories.

Accessories and Spares:

1. ECG / respiration: 5 lead ECG cable with clip- 2 sets per monitor and 10 lead wire ECG cable with clip- 1 sets per monitor.

2. NIBP: Adult: 2 sizes and Pediatric 2 sizes and neonatal, 1 size per monitor

3. SpO2 Sensor: Adult sensor with cable 2 nos per monitor, pediatric sensor with cable 2 nos per monitor and neonatal sensor with cable- 1 no. per monitor

4. IBP: Include Include four nos. per monitor of reusable pressure transducer with bracket, holder and 100 nos. Disposable domes per monitor.

5. Temperature: Skin temperature probe 1 per monitor and nasopharyngeal probes 1 per monitor.

EtCO2 module with all accessories. In case of side stream EtCO2-10 sets of sampling tubes for each module to be included.

Cardiac Output: Should be by thermodilution method with all accessories

EEG Modules- with all accessories. Should display at least two channels (Optional)

BIS/Entropy Module: Adult Sensors-200 numbers. Spectral analysis modules by compressed spectral array.(Optional)

Necessary cabling for networking the monitors on turnkey basis.

Necessary mounting solution/ mounting on any pendant for monitors

The equipment should be CE & US FDA Approved.

Central Monitoring Station for Multi Para Monitor:

System should have minimum 16 beds capability.

Central station should have 17"-19" color display touch screen.

Should have drug dose and hemodynamic calculation.

It should have possible to view information such as vital sign, alarm status, arrhythmia analysis, trended parameter, patient data etc, for any selected bed from the central station.

Should have separate computer keyboard and networked plus colored laser printer and dual channel strip record chart recorder.

Should have default alarm limits and customizable parameter settings.
Central station should have full bed review capability.

Central station should be able to configured as a bedside monitor if required.

Should have upto or more than 48 hours trends.

Should have capability for HL7 interface. Should be capable of monitoring telemetry modules.

All system should have CE and US FDA certifications.

Should be supplied with a online suitable UPS.

NOTE: Price of Multipara Monitor and Central Monitoring Station should be quoted separately.

5. Environmental factors

5.1 The unit shall be capable of operating continuously in ambient temperature of 10 – 40 deg C and relative humidity of 15-90%

5.2 The unit shall be capable of being stored continuously in ambient temperature of 0 – 50 deg C and relative humidity of 15-90%

5.3 Shall meet IEC-60601-1-2: 2001 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC directive.

5.4 The supplier shall provide environment friendly furnitures and wall fittings for the entire system. Cabling has to be provided by the supplier.

6. Power Supply

6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug

6.2 Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz)

6.3 Suitable UPS with maintenance free batteries for minimum one-hour back up should be supplied with the system

7. Standards, Safety and Training

7.1 Should be FDA, CE, UL or BIS approved product

7.2 Shall meet the safety requirements as per IEC 60601-2-27:1994—Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment.

7.3 Manufacturer/Supplier should have ISO certification for quality standards.

7.4 Should have local service facility. The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
7.5 Back to back warranty to be taken by the supplier from the principal to supply spares for a minimum period 10 years.

7.6 Comprehensive warranty for 3 years and provision of CMC for next 5 years.

8. Documentation

8.1 User Manual in English

8.2 Service manual in English

8.3 Must submit user list and performance report within last 5 years from major hospitals.

8.4 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.

8.5 List of Equipments available for providing calibration and routine Preventive Maintenance Support as per manufacturer documentation in service/technical manual.

8.6 List of important spare parts and accessories with their part number and costing.

8.7 Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

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