

Subject: Amendment to the tender Enquiry Document**Ref: Tender Enquiry No.: HSCC/SJH/Med. Eqpt./21 dated 19.08.2016****Amended Specifications**

Tender Specifications
Modular Multiparameter Monitor with Central Station
1.1. Central station for bedside monitors with independently controlled. 21" multi-color TFT Monitor Medical Grade (HP/Samsung/LG make), complete with Ethernet LAN cabling, alarm management, full disclosure of all the waveforms for 72 hours trending, bed to bed viewing of waveforms and remote alarm management like silencing of alarms etc. Central station should be valid USFDA approved with certification.
1.2 Central Station to have capability to display atleast 16 beds
Equipment Specifications for Complete Monitoring System
2. Description of Function
2.1 Critical patients need to be monitored continuously in ICU and bedside with central monitors
3. Operational Requirements
3.1 ICU should comprise of modular monitors at the bedside and with central station.
3.2 Capability of storage of patient data
3.3 Demonstration of the equipment is a must.
3.4. Technical Specifications
3.5 Multi colored TFT/LCD display touch screen of sizes as specified.
3.6 Eight digital and waveforms/traces display
3.7 Combination of single, dual and multi parameter modules.
3.8 Parameter modules freely exchangeable between all the monitors.
3.9 Multi-channel ST segment analysis.
3.10 Facility to monitor and display ECG, Respiration, NIBP, SPO2(Masimo technology), Temp. 2 channel
3.11 Monitor should have 12-lead ECG Monitoring capability simultaneously.
3.12 Automatic arrhythmia detection & alarm for standard and lethal arrhythmia.
3.13 EtCO ₂ – Side stream/main stream. Display both inspired and expired values, showing capnography
3.14 Should provide hemodynamic, oxygenation, Ventilation calculation package.
3.15 Should have drug calculation package.
3.16 Trend of at least 72 hours for 19" & 21 Monitors, 24 hours trending for 15" monitor.
3.17 Monitors should be HL7 compatible.
3.18 Miminum 100 nos. event recall/snapshot facility automatically triggered by alarm.
3.19 EEG, BIS, NMT,3 additional IBP's- modules to be offered as per the nos. specified which help clinicians in guiding fluid management.

3.20. Web browsing facility to review each network monitors data through hospital LAN via office PC in Hospital LAN Network and / or through dial up facility from remote location.
3.21. The monitors should have monitor-to monitor overview facility
3.22. Deleted
3.23. System should be complete with Computer System, UPS with 1 hour back-up & Laser Printer for each Central Station.
3.24. The system offered should not be PC based.
3.25 System including Modules should be valid USFDA approved with certification.
No. of Central Stations with 60 displays & facility to support dual screen (Minimum 21" - 50 nos.)
No. of Monitors (Minimum 19" - 225 nos., Minimum 15" - 370 nos.)
<u>3.26 List of additional Modules to be provide in 19" Monitors</u>
Three IBP (in each of 225 nos. Monitors)
Cardiac output (in each of 225 nos. Monitors)
End tidal CO2 (in each of 225 nos. Monitors)
NMT (in each of 30 nos. Monitors)
EEG (in each of 55 nos. Monitors)
Venous saturation (in each of 225 nos. Monitors) – Deleted
BIS (in each of 75 nos. Monitors)
Spirometry (in each of 100 nos. Monitors) – Deleted
Minimal Invasive CCO (in each 225 nos. Monitors) – Deleted
Non-Invasive Hb (in each 225 nos. Monitors) – Deleted
Network Recording Modules (40no.)
All the above modules should be compatible with 15" & 19" Monitors.
<u>3.25 Accessories</u>
ECG Module (5 lead ECG cable- 2 sets per monitor, 10 lead ECG cable-1 set per monitor)
SpO ₂ Probe complete set (2 for Adult, 1 for Pediatric, 1 for neonatal)
NIBP cuff complete set (3 per monitor for adult, 2 for pediatric, 1 for neonatal)
End tidal CO2 (Adult & Ped. kit 01 per Monitor & Disposables sample lines– 50 tubing per monitor)
IBP Reusable Interface Cable (3 per monitor) Disposable pressure transducer kit (10 per monitor)
Two Temperature (Two Rectal/ esophageal & skin probes per monitor)
Recorder paper rolls (10 per module)
BIS Sensors - 20no. For each module
Spirometry: Suitable monitoring set for each monitor – Deleted
Accessories for Cardiac Output: One set for each monitor
Venous saturation - suitable monitoring for each monitor- Deleted
NMT Monitoring Set

EEG Monitoring set for each monitor
<u>4.0 General Specifications</u>
4.01 Comparative compliance statement to be provided, mentioning page and para in the catalogue.
4.02 Undertaking that Local after sales Service will be provided round the clock
4.03 Undertaking from Principal that after sales service, spares & accessories will be provided for minimum 10 years after installation.
4.04 Warranty for minimum five years and CMC as per rules.
4.05 All installation and cabling to be done on turn key basis and cost to be borne by the bidder.
4.06 Bidder to inspect the site of installation before quoting, to confirm the site of wall mounts and length of cables to be installed.
4.07. Service and user manual in English
<u>5. Environmental factors: No interference with use of electrocautry</u>
5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%.
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%.
Shall meet valid IEC-60601-1-2: 2001 general Requirements of Safety for Electromagnetic Compatibility.
<u>6. Power Supply</u>
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 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
Tentative Distribution of Monitors : (125nos. ICU of SSB Block, 20 nos. in Cardiology of SSB Block & 12 nos. in Heart Command Centre of SSB Block, 70 nos. in ICU of Emergency Block, Wards, Examination Areas, Resuscitation Area etc. both in SSB & Emergency Block)

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