



Notice Inviting e-Tender

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SUPPLY OF NEONATAL CARE EQUIPMENTS FOR FACILITY BASED NEWBORN CARE (FBNC) UNITS IN THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT- 41/2017

Dated-21.07.2017

The following amendment have been made in the tender document,

Amendment –V (Revision of Technical Specification)

The revised technical specifications for the item is given below,

Neonatal Ultrasound with Multimodality Probe

- System shall provide all digit broadband technology using all digit time delay circuits, implemented using ASICs. There shall be no analog delay line components employed in the construction of beam former.
- System should have minimum 15 Lakh digitally processed channels for simultaneous formation, acquisition and delay processing of multiple ultrasound beams.
- The system must use a full frequency spectrum Compounding Technique where by a broad/ wide band width of digital signal are broken down into multiple sub - bands and

processed in parallel before “fused “ into a single image to reduce speckle noise and optimize tissue contrast , while retaining spatial and contrast resolution.

- d) System should have 2D, M-Mode, color Flow , PW, CW, steerable CW and Directional Color power Angio Facility, one button optimization for 2D and Doppler modes, Auto Doppler calculation taking the entire sample acquired.
- e) System should have minimum 1500 frames per second.
- f) The system should be capable of supporting the Extreme Resolution adaptive image processing technique that performs analysis at the pixel level.
- g) The System should support broadband multi frequency Phased and Linear Array and convex Array transducer technologies. Frequency processing facility for this transducer should be 2-15 MHz. This should be available without the need of frequency switching.
- h) Side pot TGC & gain optimization in the lateral walls with pre-defined curves.
 - i) Triplex Imaging
- j) 21”High Resolution non – interlaced LCD monitor with articulating arm & tilt & swivel facility.
- k) System should have minimum scanning depth of 20 cm.
- l) System should at least 250 dB full times input dynamic range.
- m) System should have cine loop image review up to 1000 frames.
- n) System should provide a technique that automatically maintains optimal angle to flow and assists in delivering accurate and consistent Doppler velocity measurements.
- o) System should be a new generation ergonomically designed to curb minimum injury to the sonographer /Physician with keyboard platform rotatable and moveable (up/down).
- p) Tissue harmonic imaging
- q) Simultaneous real time display Angio/Color Doppler and Gray scale images side by side.
- r) System should support Tissue Harmonic Imaging facility in phased Array, Convex Array, Linear Array.
- s) Linear Array should have extended field of view on side of the linear array.
- t) System should have minimum 3active transducer connectors/ports.
- u) **The storage capacity of the hard drive should be at least 500 GB or more.**
- v) On board Image Management – should have facility to direct digital storage of single B/W and color loops to internal hard disk and compact disk and print patient reports and images directly on plain paper print thru USB connector.

- w) Should be US FDA and CE approved product.
- x) Fully function measurement facility and calculation should be possible.
- y) Following Transducer to be quoted as standard:
 - i) 3 MHz-5 MHz curved Array Transducer
 - ii) 5 MHz-10 MHz linear Transducer. (foot print of 35 mm or less)
 - iii) Small footprint (12 mm or less) of phased array for neonatal head ultrasound and ECHO (4 MHz – 12 MHz)
 - iv) Warranty for 2 years for entire unit including all probes
 - v) CMC for 5 years for entire unit including all probes
- aa) Should have provision for Direct PC transfer.
- bb) Should supply with one thermal printer & printer paper 5 rolls, for each machine.
- cc) External online UPS (of the whole system) backup of minimum 30 minutes.
- dd) Unit should be DICOM compatible.