

Notice Inviting e-Tender
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**SUPPLY OF NEONATAL ULTRASOUND WITH MULTIMODALITY PROBE IN THE
HOSPITALS AND MEDICAL COLLEGES OF THE GOVERNMENT OF WEST BENGAL.**
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/ NIT- 37 /2014

Dated- 23.05.2014

Date of issue: 16.06.2014

The following amendment has been made in the tender document,

Amendment II (Revision of Technical Specification)

The revised technical specifications for the item is given below,

**Technical Specifications for Neonatal Ultrasound with
Multimodality Probe**

- a) 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.
- b) System should have minimum 1024 digitally processed channels for simultaneous formation, acquisition and delay processing of multiple ultrasound beams.
- c) 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 230 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 Liner 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) 15"High Resolution non –interlaced LCD monitor with articulating arm & tilt & swivel facility.
- k) System should have minimum scanning depth of 24cm.
- l) System should at least 200 dB full time 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) / Touch Screen (optional)
- 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 file of view on side of the linear array.
- t) System should have minimum 3active transducer connectors/ports.
- u) System should have more than 500 GB hard drive.
- v) On board Image Management – should have facility to (A) direct digital storage of single B/W and color loops to internal hard disk and compact disk and (C) print patient reports and images

directly on plain paper print thru USB connector.

- w) Should be FDA or 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. (35 mm or less)
 - iii) Small footprint (10 mm or less) of phased array for neonatal head ultrasound and ECHO (4 MHz – 12 MHz)
 - iv) Warranty for 5 years for entire unit including all probes
 - v) CMC for 5 years for entire unit including all probes
- aa) Direct PC transfer and provision for thermal printing with printer paper 500 rolls.
- bb) External UPS (of the whole system) backup of minimum 30 minutes.
- cc) Unit should be DICOM compatible.