

**Amendment-IV**

Ref.: Tender No. HSCC/SJH/Med.Eqpt. /2016/27 dt. 13.1.2017

Sub.: Procurement of Medical Equipment for New Emergency Block & Super-Specialty Block at Safdarjung Hospital, New Delhi.

For **item No. 8 Color Doppler Ultrasound** Technical Amendment have been received in view of the pre bid meeting queries submitted by the prospective bidders it is to be uploaded on the website today and it proposed to revise the bid submission date from 14.02.2017 to 21.02.2017. for item No. 8

Revised Technical Specification.

**Item No. 8 color Doppler Ultrasound:-**

**REVISED TECHNICAL SPECIFICATIONS FOR NEW EMERGENCY BLOCK.**

1. The system must be latest and state of the art with fully digital technology equipment to incorporate the facility of 2D, M-Mode, CDI, PW Doppler, CW Doppler, Power Doppler, directional power angio, real time 3-D(4-D) Elastography imaging and **upgradable for contrast enhanced ultrasound (CEUS)**. The vendor should have at least 3 installations in Government Institution in India in last 5 years.
2. Machine should be USA FDA and CE certified
3. System should have 60,000 digital processing channels or more.
4. System should have dynamic range of 200dB or more.
5. System should be offered with a 2D frame rate of at least 630 or more frames/second.
6. Advanced measurements & calculation package for abdominal, obst./gynae, urology, vascular and Intracavitary intervention applications should be available.
7. System should have THI & should be able to work in combined mode of harmonic imaging and real time imaging to get excellent image quality. The system should offer Tissue Harmonic Imaging in Power Doppler mode for improved sensitivity.
8. **The system should be upgradable to Contrast Harmonic Imaging** and should have optimization settings to detect the Contrast Agents. Please specify other available advanced Technology to perform better Contrast Harmonic Imaging. **(The contrast package is to be quoted as optional and price will not be included for calculation of L1).**
9. Automatic real time & frozen tracing of instantaneous peak velocity & instantaneous mean velocity (or frequency) should be available. Triplex Imaging should be standard on the system.
10. Should be offered with Speckle reduction Imaging/artifact reduction technology.

11. System should be offered with a 19 inch or more high resolution flat panel medical grade display monitor with facility for position adjustments.
12. System should have at-least four universal active probe ports with electronic switching facility from key board without probe adapter.
13. Operating modes B-mode, M-Mode, B/M Mode, Doppler Mode, Color flow, Power Doppler, DCA/DPA, Contrast Imaging, B/Color flow, PW Doppler, Real time 3D ( 4-D imaging).
14. Probes should be of broad band type and system should support probes from 1-18 MHz frequency.
15. B mode & color-flow images should be simultaneously available side by side in real time. Digital zoom facility for region of interest in real time and frozen images (8 x).
16. Image storage facility on inbuilt hard disc or MOD/CD/DVD-RW facility should be available. Inbuilt hard disk or external storage with minimum capacity of 1 TB or more. System should have extensive image management capability including thumb nail review & Cineloop editing etc.
17. Cine loop as well as cine scroll facility in B mode with storage of 10,000 or more images should be available.
18. Should have Real Time Compound Imaging Technology with Multiple (Five or more) transmitted lines of sight in convex, linear and endocavitary probes.
19. System should be capable of scanning upto depth of 30cm or more
20. The system should be DICOM 3.0 (or higher version) ready (like send, receive, print, record on CD/DVD, acknowledge etc.) for connectivity to any network, PC/computer etc. in DICOM format. Vendor will connect the machine to existing PACS with no extra cost.
21. The system should be DICOM ready. System should have capability of HIS and RIS connectivity and should also be connected to the dry chemistry printer. Should provide advanced DICOM connectivity to an enterprise data management system or PACS with advanced DICOM features: DICOM Store, Modality Work list, Performed Procedure Step and Structured Reporting. Please specify the advance DICOM features available on the quoted system.
23. The System should have Panoramic imaging / Sie-scape and extended field of view imaging.
24. The System should be quoted along with strain based Elastography Imaging as standard.
25. System should have high resolution 10 inch or more user interface touch panel.
26. On site demonstration is mandatory.

**SYSTEM SHOULD BE OFFERED WITH THE FOLLOWING TRANSDUCERS (all probes should come with biopsy attachment)**

1. 2–6 MHz or better Broadband Convex Transducer for General Imaging, Abdomen, Renal, OB/GYN imaging with capabilities of CEUS and strain elastography.
2. 3-9 MHz linear probe with strain elastography.
3. 5–17 MHz or better Linear Array Transducer for Vascular, breast, Musculoskeletal, small parts imaging.
4. 4–9 MHz or better Broadband endocavitary transducer with FOV of 135 degrees or more with CEUS and strain elastography capabilities.
5. 2-6 MHz or better Broadband Volume Transducer.
6. Pediatric probe 3-8 MHz.

### **Upgrading requirements**

1. **Continuous free, comprehensive software upgrade (compatible with the existing platform) guarantee for 10 years (after installation) of the ultrasound unit must be provided.**
2. **The system should be upgradable to Contrast Harmonic Imaging** and should have optimization settings to detect the Contrast Agents. Please specify other available advanced Technology to perform better Contrast Harmonic Imaging. **(The contrast package is to be quoted as optional and price will not be included for calculation of L1).**

### **Accessories:**

1. On-line UPS with capacity for at least one hour backup to support all functions of the equipment i.e. Performing Ultrasound procedure, exposure on to films or copy on a CD.
2. Servo Digital Voltage stabilizer
3. A Dry chemistry camera of 500 DPI or more with two active trays.
4. Essential furniture

### **Application Training:**

Engineer should be available for one month continuously and for 5 months thereafter as and when required after date of installation.

### **Guarantee/Warranty**

1. Five years comprehensive onsite warranty of entire system (Spares and labour), without exclusion, including all transducers, all other accessories and also UPS including batteries. This will be followed by 5 years CMC to be quoted separately, year wise.
2. 95% uptime guarantee should be given. In case down time exceeds 5% penalty in the form of extended warrantee, double the number of days for the which the equipment goes out of service, will be applied.

## General Instructions for the Vendor

1. Supplier must ensure availability of expertise service and maintenance at site of installation. Uninterrupted availability of spare parts and repair for next ten years must be assured.
2. Two bid system: vendor is required to make separate bids for technical and price components. These should be quoted in two separate sealed envelopes
3. Please note that all technical features, facilities and accessories mentioned in the tender document are standard requirements and hence, these should be offered as the standard feature. None of these should be offered as optional items **except for upgrade to contrast imaging for which price to be quoted separately.**
4. In price bid, cost of locally supplied items must be quoted separately in Indian currency
5. Please respond to each specification in the same format and order as mentioned in the tender document and specify/indicate the verification document form the product data sheet against each column.
6. When required, information other than those in the data sheets should be provided as separate document from the principals only and should refer to the specific sections being addressed. When standard vendor data sheet disagrees with the bid response (offer/compliance statement), clarification should accompany in the form of certificate from the principals only. In absence of this, the vendor data sheet will prevail for the purpose of evaluation and decision of the technical committee shall be final and binding on the supplier.
7. The vendor has to station one application specialist and service engineer at site for a period necessary to familiarize the medical and technical staff to the scanner protocols and enable them to achieve fast and efficient service.
8. Mention the number (with addresses, phone numbers, e-mails) of installations of the quoted unit in the Delhi and India.

All other tender terms and conditions remain unchanged

Amendment to be issued will be uploaded on website [www.Tenderwizard.com/HSCC](http://www.Tenderwizard.com/HSCC)  
& [www.hsscLtd.com](http://www.hsscLtd.com)

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