

**AMENDMENT-II****Ref: IFB No. HSCC/SJH/Medical Equipment/2016/30 Dated 29.04.2017**

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

Regarding Item No. 3, 4, 5, Pre bid queries which were submitted to Safdarjung Hospital on dated 11.05.2017 are being examined It is extended the bid submission date from 29.05.2017 to 06.06.2017.

Regarding Item No. 2 Rapid Flow Fluid & Blood Warmer, the item has been deleted by Safdarjung Hospital.

Regarding Item no. 1 Portable color Doppler Ultrasound System (6 No.) the amended specification are given below. It is extended the bid submission date from 29.05.2017 to 06.06.2017.

**Item No. 1****Revised Technical Specifications Portable Color Doppler Ultrasound System of Deptt. Radiology for New Emergency Block.**

<b><u>A state of art fully digital, compact portable Colour Doppler machine is required with following technical features :-</u></b>	
01.	The equipment including transducers must be US FDA& European CE approved and capable of operating in B Mode, M Mode, Color M Mode, Color Doppler, Color Power Doppler, PW modes, one touch 2D image optimisation and panoramic view. It should weigh less than 10 kg including weight of integrated battery. <b>a) The system should have integrated trolley with height adjustable with 3 active ports and facility for electronic switching of probes.</b> <b>b) Total weight of trolley and machine to be mentioned.</b> <b>c) Lightest weight combination (weight of the machine and trolley) will be preferred for easy portability.</b>
02	Triplex imaging should be standard on the system
03	System should be offered with a 2D frame rate of 750 /sec or more. Acquisition frame rate to be specified.
04	No. of effective processing channels 80,000 or more.
05	The system must display at a maximum depth of 30 cm and shall process a dynamic range that is at least 170db.
06	System must be offered with following application: Abdominal, Ob/Gyn, Renal, Small Parts, MSK, TCD imaging.
07.	It must support transducers with linear, transvaginal and curved array probes. Each Transducer quoted should be of the latest technology. Specify the technology for each probe. Matrix technology will be preferred.

08.	The system shall have broadband architecture with an operating frequency of at least 1 -13 MHz.
09.	The system shall have the ability to enhance tissue margins and improve contrast resolution by reducing artifacts. Image processing technology to reduce clutter and speckle artefact.
10	System must be offered with enhanced tissue harmonic imaging in standard configuration.
11	System must be offered with frequency compounding facility or equivalent technology.
12.	<b>System should possess software for Enhanced Needle Visualization to track the needle clearly at steep angles during the procedures while maintaining good image quality of the target structures and the surrounding anatomy with simple On/Off functionality. This facility should be available on High frequency Linear transducer.</b>
13.	System should have zoom capability upto 8 times or more.
14.	The system shall provide the user with minimum 8 generic digital callipers.
15.	The system must have a dedicated calculation packages for all applications.
16	System should offer Auto IMT capability to measure carotid Intima media thickness.
17.	The system should provide a backlit keypad with ease of use with facility to disinfect the keypad of system so that it is possible to avoid any cross contaminations & nosocomial infections in Wards/ ICU.
18.	The boot uptime of the machine should be less than 45 seconds.
19.	The system should have an LCD screen size of 15 inch or more in size.
20.	The system shall have digital Video Interface (DVI), S-Video, VGA, USB and audio output with provision for storage of images 150 GB or more. There should be CD/DVD writer integrated in system.
21.	The system shall have the ability to function by AC/DC or battery power with the same degree of functionality, the battery life (run time) shall be at least 45 minutes.
22.	The system shall support the DICOM function with ability for storage, print and work list, also ready to connect PACS.
23.	On site demonstration is a must for confirming and evaluating technical features.
24	Virus protection software should be provided within the system which should be regularly upgraded during entire life span of the machine.
25.	<b>Transducers to be supplied as standard</b>
a	6-13 MHz multi-frequency, broadband linear array transducer for vascular, MSK and small parts. Higher frequency will be preferred.
b	2-5 MHz multi-frequency broadband curved array transducer for general abdominal and obst.-gynae imaging .
c	5-8 MHz Intra-cavity transducer for obstetrical and gynaecological applications.
26.	<b>Accessories</b>
a	B/W Thermal printer with 1000 rolls.

27.	<b>Warranty</b>
	<ol style="list-style-type: none"><li>1) The complete unit, transducers including accessories should be covered with comprehensive onsite warranty for five years commencing from the date of issue of installation certificate.</li><li>2) The firm should also quote the rate for CMC for whole machine including probes for next 5 years after the expiry of warranty period of 5 years.</li></ol>

Amendment to be issued will be uploaded on websites [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC) & [www.hscltd.com](http://www.hscltd.com).

All other tender terms and conditions remain unchanged

Medical Superintendent  
VMMC& Safdarjung Hospital

