

Amendment-I

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.

Revised Technical Specification.

Item No. 7 Portable Ultrasound with color Doppler System:-**REVISED TECHNICAL SPECIFICATIONS FOR NEW EMERGENCY BLOCK.**

Technical Specifications for Portable Color Doppler Ultrasound System	
<u>A state of art fully digital, compact portable Colour Doppler machine is required with following technical features :-</u>	
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. It should weigh less than 10 kg including weight of integrated battery. The system should have a dockable cart with three active ports with facility for electronic switching of probes.
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	System must be offered with following application: Abdominal, Ob/Gyn, Renal, Small Parts, MSK, TCD imaging.
05.	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.
06.	The system shall have broadband architecture with an operating frequency of at least 1 -15 MHz.
07.	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.
08	System must be offered with enhanced tissue harmonic imaging in standard configuration.
09	System must be offered with frequency compounding facility or equivalent technology.
10.	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 both High frequency Linear and Curvilinear probes for superficial as well as deeper blocks
11.	The system must display at a maximum depth of 30 cm and shall process a dynamic range that is at least 160db.
12.	The system shall provide the user with minimum 8 generic digital callipers.
13.	The system must have a dedicated calculation packages for all applications.
14.	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.
15.	The system should be able to go from the off status of active scanning in less than 45 seconds for critical and emergency situations.
16.	Transducer must be sturdy and resistant to breakage.
17.	The system should have an LCD screen size of more than 15 inch or more in size.
18.	The system shall have digital Video Interface (DVI), S-Video, VGA, USB and audio output with provision for storage of images and transfer to external devices.1050X1400 resolution. There should be CD/DVD writer integrated in system.
19.	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 mins.
20.	The system shall support the DICOM function with ability for storage, print and work list, also ready to connect PACS.

21.	On site demonstration is a must for confirming and evaluating technical features .
22.	Transducers to be supplied as standard
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 ob-gynae imaging .
c	8-5 MHz Intra-cavity transducer for obstetrical and gynaecological applications.
23 .	Accessories
a	B/W Thermal printer.
b	Height Adjustable trolley of the same manufacturer .
24.	<u>Warranty</u>
	<ul style="list-style-type: none"> • 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. • The firm should also quote the rate for CMC for next 5 years after the expiry of warranty period of 5 years.

All other tender terms and conditions remain unchanged

Amendment to be issued will be uploaded on website www.Tenderwizard.com/HSCC & www.hsscltd.com

**Medical Superintendent
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