

**OFFICE OF THE PRINCIPAL
GURU GOBIND SINGH MEDICAL COLLEGE & HOSPITAL, FARIDKOT**

PRE-BID MEET NOTICE

Tender for Portable Ultrasound Machine

Manufacturers/Authorized Distributors/Firms are invited to attend PRE-BID meet to finalize the Specifications (Specifications Attached below) for Installation of Portable Ultrasound Machine required at this Institution.

1. Tender instruction document including terms & conditions will be available on the University Website www.bfuhs.ac.in and on College website www.ggsmch.org.
2. Pre-Bid meeting will be held on 16.12.2016 at 12.30 Pm in the office of Principal, GGS Medical College, Faridkot.

PRINCIPAL

Technical specification for Portable Color Doppler Ultrasound Unit ;

A state of art fully digital, compact Color Doppler Ultrasound machine is required with following technical features:

1. Unit should be able to give very high image quality with advance technologies like compound imaging for better contrast resolution, tissue differentiation and edge detection, equivalent to high end cart based systems. Please specify the technology.
2. Unit should be compact, durable & less than 5 kg in weight.
3. Imaging modes of Real time 2D, Color Doppler, Power Doppler, Pulsed wave Doppler, Continuous wave Doppler must be available.
4. System should have both online (Read) as well as offline(Write) zoom facility
5. System must have fast start up to scanning in less than 30 seconds from off condition, for use in critical care environment and emergency field situations.
6. System should support transducer technologies like phased array, convex, linear & TEE format.
7. The system should have a broadband architecture with an operating frequency of at least 1 to 15 MHz
8. Cine memory should be available on all operating modes.
9. The system shall process a dynamic range that is at least 165db. The system must display at a maximum depth of 35 cm.
10. The system must have dedicated calculation packages for cardiac, Vascular & Ob/Gyn measurements.
11. The offered unit must have Flat LCD/ TFT monitor of at least 12 inches with Anti glare coating and flicker free image.
12. Alphanumeric soft keys backlit and splash resistant keypad with easy access scans controls, facility to sanitize the system keyboard to avoid cross contamination.
13. The system must 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 2 (Two) hours, this need to demonstrate.
14. The system must have archive capability for storage & retrieval of images and clips. It should have atleast 2 USB slots, which allow for direct sharing of images (JPEG) and clips (AVI) to a PC.
15. Unit & transducers must be rugged, resistant to breakage & damage on fall/hit so as to withstand busy & field situations.
16. The system must have in-built memory of at least 16 GB for storing Patient data & studies.

17. The system shall support the all DICOM functionality, Storage, Print, and Work List, also ready to connect to PACS.
18. System should have both European CE and US FDA quality certification.

Transducers & other accessories to be supplied as standard:

1. 2-5 MHz (± 1 MHz) multi-frequency broadband curved array transducer for general purpose, deep nerve access, Musculoskeletal & abdominal applications
2. 6-13 MHz (± 1 MHz) multi-frequency, broadband linear array transducer for vascular, venous, small parts, musculoskeletal, Lung, nerve imaging with less than 40mm size. Higher frequency will be preferred
3. 1-5 MHz (± 1 MHz) multi-frequency broadband Phased array transducer for abdominal, Cardiac, Lung & OB applications.
4. A trolley must be available to store and/or transport the system.
5. Triple Transducer Connector with electronic switching facility to toggle between transducers.

Optional Transducers/Software/Items:

1. 6-12 (+/-1) MHz multi-frequency, broadband, 25 mm linear array transducer for vascular, musculoskeletal, nerve and superficial imaging.
2. 6-15 (+/-1) MHz broadband Linear array, 50 mm (+/-5 mm) transducer for superficial, small parts and musculoskeletal applications.
3. High Frequency 'Hockey Shape' Linear transducer 6-12 (+/-1) MHz for nerve blocks, vascular access, Vascular Imaging.
4. Up gradation with Needle visualization software should be possible which can dynamically optimize the image to give the best possible view of the needle in real time.
5. B/W Thermal printer

WARRANTY: Main unit and transducers should be covered with comprehensive onsite warranty for five years commencing from the date of issue of installation certificate.

ESSENTIAL REQUIREMENT:

1. Onsite Product training and education material must be provided post installation of the system.