

# Notice Calling for Quotation/Tender

OFFICE OF THE SUPERINTENDENT  
J.N. MEDICAL COLLEGE HOSPITAL  
ALIGARH MUSLIM UNIVERSITY,  
ALIGARH

No. Ext. 3503...../MCH

Dated...09. 9. 15.....

M/s.....

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Sealed Quotations/Bids (One Technical and One Financial separately) are invited from manufacturers or their authorized dealers for the following equipments which should be sealed by the tenderers in separate covers duly super scribed and both these sealed covers are to be put in a bigger cover, which should also be sealed and duly super scribed, on the terms and conditions printed on Page No. 2.

Quotations should reach this office on or before 01.10.2015 by 03:00 PM.

## **Portable Ultrasound, Color Doppler System for Intra Operative Sonography**

State of the art, fully digital, compact portable Colour Doppler Ultrasound machine is required with the following technical features & specification:-

1. The unit should be compact, lightweight (approx 5kg  $\pm$  10%) and portable.
2. It should be suitable for abdominal, OB/Gyn, small parts, Thyroid imaging and thyroid biopsy, vascular access, Nerve blocks, FAST examination, small parts, vascular, interventions cardiac applications in adults and pediatric patients. Multiple preloaded application presets should be available including nerve.
3. The unit must have real time compound imaging for improved contract resolution and eliminating ultrasound artifacts to achieve optimum image quality. Please specify technology.
4. The unit must have automatic gain adjustment for B mode imaging.
5. Scanning depth must be available up to 35 cm.
6. System should support transducer technologies like convex, linear, phased array, TEE etc.
7. System must have frequency range from 1 – 15 MHz ( $\pm$  1 MHz).
8. Imaging modes of Real time 2D, Colour Doppler, Pulsed wave Doppler, Continuous wave Doppler (in all cardiac probes), Power (energy) Doppler must be available.
9. System must have fast start up to scanning in less than 30 seconds as essential in critical and emergency situation in ICU, emergency, OT.
10. Unit must be sturdy, resistant to breakage & damage on fall/ hit against the wall or hard surface.
11. Cine memory on all modes.
12. DICOM ready system with facility to print, store, ready to connect to PACS.
13. Flat LCD/ TFT monitor of at least 10 inches with flicker free image.

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14. Alphanumeric soft keys keyboard with easy access scans controls, facility to sanitize the system keyboard to avoid cross contamination must be available.
15. Onboard storage of at least 10000 images, USB port for connectivity to computer.
16. System should possess software for Enhanced Needle Visualization to track the needle clearly at steep angles during the procedures while maintaining striking 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.
17. Should be able to operate both on AC and battery. Battery pack should be self-recharging and should last for 2 hours when fully charged.
18. System configured application specific educational video tutorials should be provided as standard with the system.
19. The company must agree to provide a loaner system in case of failure of the system.
20. Both the system and transducers should be US FDA and European CE certified.
21. Any **two** from the following transducers for Neurosurgical Operation & General Surgery Operation should be supplied as standard:-
  - a. Broadband High Frequency Linear transducer 5 -10 MHz for Thyroid, Vascular Imaging, musculoskeletal, breast, small parts imaging.
  - b. Convex transducer 2-5 MHz for Ob. Gyn, abdominal, deep nerve access applications.
  - c. Broad Band phased array 2-5 MHz Transducer for Cardiac, FAST applications.
  - d. High Frequency Linear transducer 6-12 MHz for nerve block, vascular access, vascular imaging. With a small foot print of 25mm for paediatric applications.
  - e. High Frequency Linear transducer 6-12 MHz with less than 40mm size for vascular access, small parts, vascular, musculoskeletal, Supraclavicular, Axillary application, Higher frequency will be preferred.
  - f. Broadband Phased array 4-8 MHz paediatric Echocardiography with PW & CW facility.
  - g. Broadband micro convex transducer 5-8 MHz for pediatric abdominal & neonatal head applications.
  - h. Broadband intracavitary transducer 5-8 Mhz for Ob. & Gyn. Applications.
22. Following to be supplied as standard:-
  - a. Trolley from the same manufacturer.
  - b. Carry Bag.

**ESSENTIAL REQUIRED:-** The firm must have minimum number of 50 installations of the same model in India, attach list of installations, also provide performance certificates.

**WARRANTY:-** The unit and transducer should be covered with comprehensive onsite warranty for five years commencing from the date of issue of installation certificate.

**Medical Superintendent  
J.N. Medical College Hospital  
A.M.U., Aligarh**

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