

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES,  
STORE SECTION (DO), 1<sup>ST</sup> FLOOR, ANIMAL HOUSE,  
ANSARI NAGAR, NEW DELHI-110 029, INDIA**

## **TENDERENQUIRY DOCUMENT**

**(Two Bid System for Machinery & Equipments)**



शरीरमाद्यं रक्तु धर्मसाधनम्

**Advertised Tender Enquiry No.: XX-64/SO(DO)/Anesth/23-24/M&E**

**Brief Description of Goods** : Purchase of High-End Ultrasound Machine  
for Regional Nerve Blocks & Education  
Purpose - 01 No.

**SECTION-I**



**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**  
**ANSARI NAGAR, NEW DELHI-110 029**  
**TENDERS ENQUIRY DOCUMENTS (TED)**

**Advertised Tender Enquiry No : XX-64/SO(DO)/Anesth/23-24/M&E**

**On behalf of Director, AIIMS, Ansari Nagar, New Delhi-110 029, online bids are invited in two bid system (Techno-Commercial Bid and Financial Bid) from reputed, eligible and qualified firms/manufacturer for supply of following Goods:**

S. No.	Brief Description of Goods	Quantity	Amount of Bid Security/EMD
1.	Purchase of High-End Ultrasound Machine for Regional Nerve Blocks & Education Purpose	01 No.	INR Rs.90,000/-

**CRITICAL DATE SHEET**

Published Date & Time	08-12-2023 at 04.00 pm
Bid Document Download/Sale Start Date	08-12-2023 at 04.00 pm
Seek Clarification Start Date	08-12-2023 at 04.00 pm
Seek Clarification End Date	15-12-2023 at 04.00 pm
Pre Bid Meeting	NA
Pre Bid Meeting Place & Address	NA
Bid Submission Start Date & Time	22-12-2023 at 04.00 pm
Bid Submission End Date & Time	09-01-2024 (Tuesday) at 03.00 pm
Bid Opening Date & Time	10-01-2024 (Wednesday) at 03.00 pm

**Section – VII**  
**TECHNICAL SPECIFICATION AND GENERAL POINTS**

**High-end Ultrasound Machine for Regional Nerve Blocks & Education Purpose:**

The system should be state of art latest ultrasound technology and should be suitable for Cardiac, Vascular access, Abdominal, Lung, Nerve blocks, MSK and other point of care applications in ICU scenario. The specification requirements for this equipment are as follows.

1. The equipment must be capable of operating in B Mode, Anatomical M-Mode, Color Doppler, Color Power Doppler (CPD), Pulsed Wave, TDI and Continuous Wave modes.
2. It must support pinless transducers' technology with linear array, curved array, phased array & TEE formats. The transducers should be easy to clean and disinfect, pls specify their immersion rating.
3. The system shall have broadband architecture with an operating frequency of at least 1 to 19 MHz and should process a dynamic range that is at least 180 dB or more.
4. The system should have 15-inch or more medical Grade LCD/LED clinical display monitor with at least 80 degrees wide
5. viewing angle. The system weight should be less than 7.6 Kg and should be mounted on sleek stand which can be easily adjusted from vertical to horizontal position or vice versa as per end user requirement. There should be provision for proper cable management to avoid tangles and dragging of transducer cables when moving the system.
6. To prevent cross contamination and infection, the system should possess a sealed & spill proof 10 inch or more touch screen customizable user interface with limited sealed physical buttons which should be easy to clean and disinfect for use in ICU environment. Please specify liquid ingress protection rating for system.
7. System reliability should be ascertained by architecture with latest operating system, which is not easily prone to failure, hang ups, data corruption, while in networking environment. (Please Specify the technology)
8. System must possess Tissue harmonic and Pulse Inversion technology on transducers offered or wherever required.
9. The system should have robust data security including an initial security set-up wizard that allows users to choose their security level for data protection.
10. Centerline marker facility on probe as well on monitor screen should be available for aiding during vascular access.
11. The system shall have the ability to function by 100-240VAC, 50-60 Hz or in-built battery power with the same degree of functionality. Inbuilt battery back-up of system

should be at least one hour expandable up to three hours on trolley, without an externally powered UPS to handle critical and emergency situations.

12. The system shall go from the off status to active scanning in less than 40 seconds to address any emergency or critical care needs for interventional and procedures use.
13. The system and standard transducers should be sturdy and drop safe to absorb shocks / any accidental bang on hard surface in busy hospital environment.
14. System should reduce the speckle noise, improves contrast resolution, and provides ease of diagnosis on different applications with auto smart options for ease of use by multiple end users. Please specify the technology.
15. System should have advanced Auto needle visualization tool to eliminate the "hidden needle" in steep angle interventional procedures of vascular access, Biopsies, Small Parts, Musculoskeletal and Nerve examinations. (Please Specify the technology)
16. The system internal memory/hard disk should be at least 128 GB, to store images, clips or combination of the same.
17. The system should have onboard how-to videos (for imaging basics, system use etc.) and should have inbuilt educational video tutorials related to Acute care, procedures, Covid, Anesthesia, Pain Management, MSK etc for scan along learning of end users.
18. The system shall have a dedicated acute care, vascular & cardiac calculations packages.
19. The system shall display at a maximum depth of 35 cm, and a minimum of 1 cm.
20. The system should have a color compare mode for real time side-by-side comparison of structures in 2D and color mode.
21. The system shall provide the user with a 8X live zoom function that increases the region of interest, without affecting the quality of the image.
22. The system shall be DICOM 3.0 compliant and allows for saving the DICOM configuration via USB, so they are easy to replicate or restore.
23. **Transducers:**
  - a. Broad band multi-frequency Linear array transducer with foot print b/w 35-40mm wide and operating frequency range of 3-12MHz for arterial, nerve, venous, musculoskeletal, lung and superficial examinations.
  - b. Adult Phased array transducer with frequency range of 1-5 MHz for cardiac lung, TCD & abdominal examinations.
  - c. Adult curved array transducer with approx. 60 mm footprint and operating frequency of 1-5 MHz for abdominal, MSK, Nerve, spine, gynae and lung imaging.

- d. Multi frequency broadband small footprint Linear transducer nearly 20 mm wide and operating frequency range of 5-19 MHz for Arterial, Lung, MSK, Nerve, Ophthalmic, Superficial, Venous, PIV applications.
- 24. The manufacturer shall provide a five-year standard warranty on the system and Transducers
- 25. The system manufacturer shall additionally provide on site product training and access to ultrasound education website for end users during installation.
- 25. The comprehensive warranty will be 5 years (including all spares and labour) from the date of satisfactory installation of the equipment.
- 26. Rates for Comprehensive Annual Maintenance Contract CAMC (including all spares and labor) for 5 years, after expiry of warranty period, must be quoted separately.

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