



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

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Procurement of Different Medical Equipment for Calcutta National Medical College & Hospital
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-031/2025

Dated-10.01.2025

The following amendment has been made in the tender document,

Amendment – 4

Revised Technical Specification

Schedule-I

Portable Ultrasound Unit

A state of art fully digital, compact portable Colour Doppler Ultrasound machine (weight < 7 kg) with pin-less transducer technology 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 cardiac contrast resolution, tissue differentiation and edge detection, equivalent to high end cart based systems. Please specify the technology
2. System should be able to support speckle reduction imaging for better tissue differentiation and edge enhancement please specify the technology
3. The system shall have the ability to enhance tissue margins and Improve contrast resolution by reducing artifacts and Improving visualization of texture patterns & needle tip within the Image, please specify the technology
4. System should have both online (Read) as well as offline(Write) zoom facility
5. Imaging modes of Real time 2D, Colour Doppler, Pulsed wave Doppler, Continuous wave Doppler, Power Doppler must be available on all cardiac transducers
6. System must have fast start up to scanning in less than 120 seconds from off condition, for use in critical and emergency situations
7. System should support transducer technologies like phased array, convex, linear, TEE etc.
8. Cone memory on all 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 a dedicated cardiac calculation packages With PISA, TDI calculation packages, vascular calculations package.
11. The unit must be compact, portable and lightweight, weighing less than 7 kg.
12. Unit must be sturdy, resistant to breakage & damage on fall/hit against the wall or hard surface for use in emergency situations.
13. Flat LCD/ TFT monitor of at least 12 Inches with flicker free image
14. Alphanumeric soft keys keyboard with easy access scans controls & touch pad, facility to sanitize the system keyboard to avoid cross contamination
15. 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 1.5 hours, this need to be demonstrated.
16. The system must have archive capability for storage and retrieval of Images and clips data.
17. Data transfer facility should be available as standard, to transfer images etc easily onto another system/computer etc.
18. The system shall support the all DICOM functionality, Storage, Print, and Work List, also ready to connect to PACS
19. 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 With convex and linear transducers.
20. The equipment should be mountable on trolley & locking mechanism should be inbuilt into the trolley for safety & security of the system
21. Suitable online UPS to be supplied with machine with min 30 mins backup.
22. Transducers to be supplied as standard
 - 4-8 MHz (± 1 MHz) multi-frequency broadband Phased array transducer for Pediatric
 - 4-9 MHz (± 1 MHz) Abdominal Micro Convex Pediatric
 - 6-13 MHz (± 1 MHz) linear probe for Pediatric
 - Neonatal Head applications
 - Minimum 3 port & probe to be supplied with the machine
 - Mobile cart with transducer holder and space for printer from same OEM

Warranty: The unit and main transducers should be covered with comprehensive onsite warranty for two years commencing from the date of issue of installation certificate.

Essential Requirement:

Onsite training to end users and education material must be provided post installation of the system.

Certification: Should submit valid CDSCO Certificate/ Registration/ License for both the manufacturer(s) and importer(s) as applicable.