



Notice Inviting e-Tender

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Supply and Commissioning of 01(One) unit of Bedside Echocardiography and Ultrasound (POCUS) for the Dept. of Critical Care Unit (CCU), BSMC&H, Bankura

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT- NIT-556/2026

Dated-17.06.2026

AMENDMENT-I

Revised Technical Specification

Bedside Ultrasound System (POCUS) for Critical Care Unit Purpose

To procure a high-end portable ultrasound system capable of bedside echocardiography and ultrasonography to enhance diagnostic and procedural capabilities in the Critical Care Unit.

Technical Specifications

System Type

Portable laptop-based or compact cart-based ultrasound system suitable for bedside use

Clinical Applications

Lung ultrasound (ARDS, pneumonia, effusion, pneumothorax)

Bedside echocardiography (2D with Doppler)

FAST and abdominal assessment

Vascular access guidance

Pediatric imaging

Procedural guidance

FOV 40cm

Frame rate 1500 FPS or higher

Physical channel 2 lakhs or more / equivalent digital channel

Transducers (Mandatory)

Linear probe (3-13 MHz) (± 1 MHz)

Convex probe (1-5 MHz or higher range)

Phased array probe (cardiac) (1-4 MHz or higher range)

Transesophageal echocardiography (TEE) probe (2-7 MHz or higher range)

Imaging Modes

B-mode

M-mode

Color Doppler

Pulse Wave Doppler

Continuous Wave Doppler

Display

Minimum 15-inch high-resolution LED monitor

Performance Features

Tissue harmonic imaging

Speckle reduction technology

Cardiac measurement package

Portability

Lightweight system with medical-grade trolley

Battery backup of at least 1 hour

Storage & Connectivity

Internal storage of 256 GB SSD with cine loop

USB export facility

DICOM compatibility

PACS connectivity

Simultaneous 3 port connection

Additional Features

Needle guidance system

ICU and pediatric presets

Rapid boot-up time less than 30 sec

The POCUS system should ideally include:

- High-resolution portable ultrasound system suitable for bedside use
- 2D, M-mode, Color Doppler and Pulse Wave Doppler
- Capability for basic echocardiography and multi-organ imaging
- Phased array probe for cardiac imaging
- Convex probe for abdominal and FAST examination
- High-frequency linear probe for vascular access and lung ultrasound
- Real-time measurement and hemodynamic assessment tools
- Compact cart-based design with high-resolution monitor
- Battery backup for uninterrupted use in critical settings
- Image storage and reporting system with DICOM compatibility

The bidder/OEM should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable of Bedside Ultrasound System and probes.