



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
Swasthya Sathi
GN-29, Salt Lake, Sector-V
Kolkata-700091

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Supply and Commissioning of 01 (One) USG Machine and 01 (One) Digital Fundal Photography for the Department of Endocrinology, IPGME&R-SSKM Hospital
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-834/2025

Dated-10.10.2025

Amendment-I **TECHNICAL SPECIFICATION**

Schedule-I

Specifications for High-End Ultrasound (USG) Machine

Parameters / Features	Threshold Limit / Range
Digital Image Processing Channel	300000 or more
Dynamic Range (in dB)	230 or more
Scan Depth (in cm)	(1 to 30) or more
Shades of Grey Display	256
Frame Rate (per second)	2500 or more
TFT/LCD Display Size (Diagonal, in inches)	23 or more
Touch Screen Control (Diagonal, in inches)	10 or more
Transducers	
1. Convex Abdominal (in MHz)	2–6 (± 1)
2. Linear Transducer (in MHz)	5–11 (± 1)
No. of Active Transducer Ports with Switching from Console	4 or more

Hard Disk Memory (in GB)	500 or more
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Must-Have Specifications

Parameters / Features	Yes / No
High resolution 2D, M-Mode, PW, CW, Color Flow Imaging, Power Angio Imaging, Directional Power Angio Imaging Mode	YES
Speckle Reduction Filter, Spatial Compound Imaging, Pulse Inversion Harmonic Imaging, Trapezoidal Imaging, Contrast Enhanced Imaging (Low-MI)	YES
Real Time Triplex Mode Facility in 2D, Color & Doppler Mode	YES
Real Time & Frozen, Pan or Point Zoom, HD Zoom	YES
Panoramic Extended Field of View	NO
Curved Distance Measurement Tool, Zoom Pan, Rotate or Trim Facility to Trim Panoramic Probe	NO
Independent Steering of B Mode & Colour on Linear Probe	YES
4D Image Capability	YES
Tissue Elastography – Shear Wave with Strain Elastography	YES
Calculation for Greyscale, Colour Doppler, 3D & 4D Applications	YES
Latest Model Launched in 2018 or After	YES
2 KVA Online UPS with 30 mins Battery Back-Up	YES
CDSCO Certificate	YES

Additional Specifications for USG Machine

The machine will be registered under the Department of Radiology as per PCPNDT Act with the following specifications:

- High-resolution probe for superficial soft tissue structures (e.g., Thyroid).
- Attached Doppler Probe.
- Attachment for simultaneous FNA under US guidance.
- Provision for Elastography.
- Provision for LASER Photocoagulation of thyroid nodule.
- System should be capable to quantify liver steatosis to aid in early identification and monitoring of patients with NAFLD, NASH or ASH. Units should be in dB/m or dB/cm/MHz