



Notice Inviting e-Tender

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Supply and Commissioning of 02 (two) units of USG Machine for the Department of Radiology at NRS Medical college & Hospital, Kolkata

(Submission of Bid through *online*)

Bid Reference No.: WBMSC/NIT-1055/2025

Dated-23.12.2025

AMENDMENT-I

Schedule-I

REVISED Technical Specification of High End Premium Color Doppler System

1. The units should be latest state of the art digital color Doppler with broadband beam forming for Obs. & Gynae, fetal anomalies & Fetal echo, Invasive procedure in Fetal Medicine like - Chorionic Villus Sampling (CVS), Amniocentesis, Fetal Reduction. Abdominal and Vascular USG also may be needed for patient interest. The models with following (or higher) specifications need to be quoted.
2. They should have at least **80,00,000 or more** digital processing channels for high- resolution imaging and Fast Scanning.
3. **Imaging Modes:**
2D, M- Mode, color flow imaging, Pulse Doppler, power Doppler and directional color flow mapping.
4. The system **should have 3D and 4D** volume Convex and volume TVS applications.

5. The Machines should have facility for simultaneous **dual, duplex and triplex mode display**.
6. Tissue harmonic imaging should be available on convex, liner, endo cavity transducers.
7. The system should have feature for **2D Shear Wave Elastography** in Convex.
8. Machines should be capable of advanced real time compound imaging on liner, curved array probes.
9. The machines should have facility for real time fetal echocardiography with high frame rate to capture the fast-beating fetal heart - 2500 Frames or more.
10. Machine should have integrated gel warmer with temperature level settings.
11. High dynamic range of 320 db or more.
12. The machines should have 256 Grey shades (8 bit) or more.
13. The System should Have Scanning Depth of 40cms or more.
14. One touch image optimization should be available in 2D mode to optimize the image without adjusting multiple parameters.
15. There should be one button automatic adjustment of Doppler PRF, baseline, dynamic range and gain in Doppler mode.
16. Pulsed wave Doppler should be available on all imaging transducers with adjustable sample volume size, simultaneous or duplex mode of operation, simultaneous, 2D, Color Doppler, pulsed Doppler, high PRF capability in all modes including duplex and triplex and automatic adjustment of scale and baseline.
17. The system should have option to adjust the color flow mode for high or low flows in one touch Operation.
18. Machines should support broad band/ wide band high density probes spanning with frequency range from **1- 18 MHz or more**. The system should support latest technology single crystal probe for better Uniform resolution and penetration.
19. The machine should have up to 5,00,000 images storing facility and cine loop review facility with memory up to minimum of 20,000 frames.
20. The machine should have **1 TB SSD** for image preset, clinical images, cine loops and 256 GB Solid State Drive to store operating software & license software. **The SSD** should be inbuilt in the machine.
21. The machines should have four Active high density probe connector
22. Machines should have a high resolution fully articulating non-interlaced flicker free, anti- glare LED display of 23 inches or more. Machine should have touch screen control panel of 12 inches or more for easy accessibility.
23. The System should have UP & Down movement of Control panel to adjust to the user requirements and side by side rotation.
24. Max. Frame rate (Probe dependent) - 2D: minimum 2,500 (Hz/FPS) - Color: 500 (Hz/FPS)
25. The system should have image enhancement options like speckle reduction, Spatial compounding, and filtered tissue harmonics. The system should have adaptive blending color to maintain the 2D resolution while working in color mode.
26. Zoom facility (up to 8 times or more magnification) with high resolution results and pan capacity in both real time and frozen images.

27. The system should have CD-DVD and USB archival (DICOM and PC format). There should be 4 or more USB ports. USB real-time recording should be possible. Videos are recorded as high-definition and stored in system quickly.

28. Machine should be supplied with Color Laser Printer.

29. Machine should be supplied with 2KVA Online UPS with 30 minutes Back up.

30. Machines should be offered with the following single crystal/High Density/pure web/matrix Probes.

- i) Single crystal Convex Transducer of frequency 1-7Mhz ($\pm 2\text{MHz}$)
- ii) Single crystal Volume Convex Transducer of frequency 1-8 MHz ($\pm 2\text{MHz}$)
- iii) Single crystal Linear Array Transducer of frequency 3-17 MHz ($\pm 2\text{MHz}$)
- iv) Volume TV/TR Transducer of Frequency 2 -11 MHz ($\pm 2\text{MHz}$)

31. The bidder/ OEM should have valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.