



## Notice Inviting e-Tender

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**Procurement of USG Machine with Doppler facility for Jangipur SD Hospital**  
(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT-950/2025**

**Dated-20.11.2025**

### **Amendment-I**

### **Revised Technical Specification**

#### **USG Machine with Doppler facility**

1. It should be robust state of art, fully digital high end latest Colour Doppler Ultrasound System with architecture capable of precision beam forming ,capable of performing imaging applications in abdominal, Obstetrics /gynaecology Fetal Heart, musculoskeletal, small parts, Urology, Breast, Paediatric etc.
2. System should have broadband beam former capable of processing signals from 1MHz.) **(Broad band)**
3. System should have latest state of the art technology to ensure no Compromise between Temporal and Spatial resolution
4. System processing channels must be more than 7,00,000 or equivalent hardware channel
5. Frame rates more than 2000 frames/sec preferred.
6. System with Digital TGC control is preferred
7. System should have 4 universal probe ports.
8. System should incorporate facility for high resolution 2D, M-mode, PW, Colour Flow Imaging, Colour Power Angio imaging, Power Pulse Inversion Harmonics, Directional Color Power angio imaging modes.
9. System should have Tissue Harmonic Imaging, Spatial Compound Imaging, Pulse Inversion Harmonic Imaging, Trapezoidal Imaging, Quad Imaging, Dual Imaging in Horizontal Split, 2D/C Live Imaging, Automatic PW Doppler Adjustment and Auto 2D Adjustment.
10. System should have fully digital real time Multi recording in DVD.
11. System should have scan depth of 2 to 40 cm or more. Please specify through data sheet.
12. System should have 256 shades of gray display
13. System should have facility for real time or frozen, pan or point zoom.

14. System should have cine loop review minimum 2000 frames and Loop Review for 2000 Lines or more. Please specify through data sheet.
15. The Endocavity probe should have viewing angle of 140 Degree or more, to visualize entire Uterus from cervix to fundus.
16. Console height should be adjustable for user's comfort.
17. Linear probe for MSK and Breast Imaging.
18. Convex Probe (Broad Band) will be accepted for higher frame rate and deep penetration.
19. System should have Dynamic range 256 db or more.
20. It should have extensive software and automatic and user programmable calculation package for gray scale, color Doppler.
21. System should have more than 21" or more Flat panel Monitor (preferably LED)
22. System should have 10" or more wide LED Touch Screen Control.
23. System should be able to show hemodynamic color flow.
24. System should be DICOM ready.
25. System should have built in Image Management Software, for off line application when patient has gone after examination, such as Image Manipulation, Multi Planar reformatting, surface & volume rendering etc. It should have hard disk memory of 512 GB or more with built in CD/DVD read write.
26. System should have Micro Vascular Flow to detect very low intensity vascularization.
27. Please respond to each specification in the same format and order and support it with Product Data Sheet.
  
28. System should be provided with following transducer:
  - I. Convex Abdominal probe with frequency range from 2 to 7 MHz.  $\pm 2$  MHz Frequency Acceptable
  - II. Endocavity (TV/TR) 2-11 MHZ approx. with 140 Degree or more Angle.  $\pm 2$  MHz Frequency Acceptable.
  - III. Linear probe for vascular studies and Breast Imaging 2- 14 Mhz.  $\pm 2$  MHz Frequency Acceptable
  - IV. Phased array cardiac probe 2 to 5 MHz ( $\pm 1$ ) MHz Frequency with echocardiography software package

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

N.B.: Any software upgradation during the warranty period should be done by the Vendor/ Supplier / manufacturer at free of cost in due time.