



## Notice Inviting e-Tender

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**Procurement of USG Machine along with necessary accessories (Printer and Computer) for**  
**North Suburban Hospital**  
(Submission of Bid through *online*)

<b>Bid Reference No.: WBMSCL/NIT-232/2026</b>	<b>Dated-27.02.2026</b>
<b>2<sup>nd</sup> call of bid reference no. WBMSCL/NIT-911/2025 Dated-11.11.2025</b>	

### **Amendment-I**

#### **Revised Technical Specifications**

#### **USG Machine**

<b>S.NO.</b>	<b>TECHNICAL SPECIFICATIONS</b>
1.	It should be robust state of art, fully digital high end latest Color Doppler Ultrasound System with C-Sound /N-Site / Crystal-live / similar architecture capable of precision beam forming ,capable of performing imaging applications in abdominal, OBS/ gynae, Fetal Heart, musculoskeletal, small parts, Urology, Breast, Pediatric, Cardiovascular ULTRASOUND SYSTEM etc.
2.	System should have broadband beam former capable of processing signals <b>from 1-22MHz(±1)</b> .
3.	System should have latest state of the art Hybrid Beam forming technology to ensure no compromise between Temporal and Special resolution
4.	System processing channels must be more than 80,00,000 / 128 or more hardware channel .
5.	Frame rates should be <b>3000</b> frames/sec or more.
6.	System should have <b>Digital/Manual</b> TGC.
7.	System should have atleast 4 active probe ports.
8.	System should incorporate facility for high resolution 2D,M-mode,PW,Color Flow Imaging, Color Power Angio imaging, Power Pulse Inversion Harmonics, Directional Color Power Angio imaging modes, Shearwave & Strain Elastography and Comprehensive 4D Package.
9.	System should have Full Spectrum Imaging, 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 scan depth of 2 to 40 cm or more. Please specify through data sheet.
11.	System should have 256 shades of gray display.
12.	System should have facility for real time or frozen, pan or point zoom.
13.	System should have cine loop review minimum <b>44000 frames or more</b> . Please specify through data sheet.
14.	System should have panoramic extended field of view.
15.	System should be upgradable with Fetoscopic view technology that displays detailed volume rendering, enabling users to easily identify subtle anatomical structures with change in position of light source. Anatomies look realistic when viewed in color.
16.	Console height should be adjustable for user's comfort.
17.	Convex Probe with Single Crystal will be accepted for higher frame rate and deep penetration. This probe should have 2D Real time Shearwave liver elastography with quantification
18.	Single crystal / Matrix/ Broad band Linear probe for MSK and Breast Imaging with 2D Real time Shearwave/ Strain

19.	System must have Contrast Ultra sound with Time Intensity Curves (CEUS) in Convex, Linear & TVS probe.
20.	System should have Advanced Image Processing algorithm to analyze between targets and artifacts so as to sharpen target anatomy, reduce the sparkle & artifacts to improve image quality.
21.	System should have Dynamic range 350 dB or more.
22.	It should have extensive software and automatic and user programmable calculation package for gray scale, color Doppler, 3D and 4D applications.
23.	System should have more than 21" or more Flat panel Monitor (preferably LED) with articulating arm capable of Up/Down, forth/back movement along with tilt & swivel facility.
24.	System should have 10" or wider LED Touch Screen Control along with hard physical keyboard.
25.	System should support single button to customize the work flow of Doctor.
26.	System should have central lock for all four wheels.
27.	System should be able to show hemodynamic color flow (Alpha blending).
28.	System should have more than 2 USB Ports and also be DICOM ready.
29.	System should have built in Image Management Software, for off line application when patient Has gone after examination, such as Image Manipulation, Multi Planner reformatting, surface & volume rendering etc. It should have SSD hard disk memory of 512 GB
30.	System should have Micro Vascular Flow imaging with levels selection to visualize hemodynamics in micro vessels without the use of Contrast. It should be possible on 2D & volume imaging with a facility to quantify a given area of interest. The technology should be Such that the Frame rate is not dropped on switching ON the MV Flow mode.
31.	System should have 3D like hemodynamics visualization in 2D Color Doppler imaging for better delineation of vessel lumen and abnormalities. It should have level selection for more detailed information in low flow (tiny vessels) & high flow (large vessels).
32.	System should have Comprehensive liver quantification package Tissue Scattered Imaging and Tissue Attenuation Imaging.
33.	System should have Liver elastography with fat quantification tool with fat fraction displayed in percentage form and should have comprehensive multiparametric reporting format giving all parameters related to Liver solution in one page.
34.	System should have special feature for better needle visualization
35.	System should be capable of Realtime 3D/4D imaging with advanced Applications for OBS/GYN. Also it should have volume imaging features like Multi slice imaging, Oblique view, VOCAL, etc.
36.	System should have a feature to semi-automatically extracts the centerline and thickness of the curved endometrium and provides a coronal view in 3D.
37.	System should be compatible with Adult, pediatric & neonatal cardiac probe along with TEE probe for future use.
38.	System should be upgradeable to advanced cardiac features like Auto EF, Stress & Strain Imaging for easy assessment of patients with Cardiovascular risk.
39.	System should be upgradeable of an AI based fully automated measurement tool for Adult heart with ability to automatically segment the heart, auto annotating & also automatically measuring all parameters in every Imaging mode in one just touch using regular phased array transducer.
40.	The quoted model should be CDSCO approved.
41.	Please respond to each specification in the same format and order and support it with Product Data Sheet.
42.	The system should be supplied with a computer (1 no. of desktop) and scanner cum printer
43.	System should have online 1 KVA ups
	<b>System should be provided with following transducer:</b>

S.NO.	TECHNICAL SPECIFICATIONS
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A	Single Crystal Convex Abdominal probe with frequency range from 1 to 7 MHz. (Single Crystal Probe will be required for higher frame rate and deep penetration, also capable of doing Real time 2D Shearwave Elastography). +/- 1 MHz Frequency Acceptable
B	Single Crystal/ Matrix/ Broad band Linear probe for vascular studies and Breast Imaging 2-14 Mhz. also capable of doing Real time 2D Shearwave Elastography or Strain Elastography. +/- 2 MHz Frequency Acceptable
C	Endocavity (TV/TR) 2-11 MHz approx. with more than 168 Degree Angle & capable of Strain Elastography. +/- 2 MHz Frequency Acceptable
D	Single Crystal Adult Cardiac Probe with 1-5 Mhz. approx. for 2D Echo Studies +/- 1 MHz Frequency Acceptable