



## Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

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**Procurement of USG Machines for the Dept. of Antenatal Ward and Labour  
Rooms at Hospitals and Medical Colleges of Govt. of West Bengal**

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-471/2023

Dated-14.08.2023

**Amendment-I**

**REVISED TECHNICAL SPECIFICATIONS OF USG MACHINE**

SL NO.	TECHNICAL SPECIFICIATIONS
1.	It should be robust state of art, fully digital high end latest Colour Doppler Ultrasound System with Hybrid beam forming, capable of performing imaging applications in abdominal, obs/gynae, Fetal Heart, musculoskeletal, small parts, Urology, Breast, Pediatric etc.
2.	System should be stand-alone unit having broad band beam former capable of processing signals from 2-13 MHz $\pm 1$ MHz
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 2,00,000
5.	System should be minimum 8 TGC control
6.	System should have minimum 2 active universal probe ports.
7.	System should incorporate facility for high resolution 2D, M-mode, PW, Color Flow Imaging, , Power Pulse Inversion Harmonics
8.	System should have Full Spectrum Imaging, Tissue Harmonic Imaging, Spatial Compound Imaging, Pulse Inversion Harmonic Imaging, Trapezoidal Imaging, Quad Imaging, Dual Imaging, Automatic PW Doppler Adjustment and Auto 2D Adjustment.
9.	System should have scan depth of upto 30 cm or more. Please specify through data sheet.
10.	System should have 256 shades of gray display.
11.	System should have facility for real time or frozen, pan or point zoom.
12.	System should have frame rate of 1500 fps in B-Mode and more than 600 fps in colour mode. Please specify through data sheet.
13.	System should have Advanced Image Processing algorithm to analyze between targets and artifacts so as to sharpen target anatomy, reduce the sparkle & artifacts to

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	improve image quality.
14.	System should have Dynamic range 230 db or more.
15.	It should have extensive software and automatic and user programmable calculation package for gray scale, colour Doppler applications.
16.	System should have 21" or more Flat panel Monitor (preferably LED) with high resolution of 1920x1080.
17.	System should support single button to customize the workflow of Doctor.
18.	System should be able to show hemodynamic colour flow (Alpha blending or equivalent).
19.	System should be US FDA/CE(4 digit notified body)/BIS Approved
20.	System should have minimum PW Velocity Range: 0.1 cm/s to 8 m/s or more and CW Velocity Range: 1 cm/s to 18.0 m/s or more.
21.	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 hard disk memory of 500 GB or more.
22.	Please respond to each specification in the same format and order and support it with Product Data Sheet.
23.	Power backup should be 30 minutes (Online UPS -1KVA)
24.	Image quality must be accepted by the Technical Expert Committee during physical inspection and working demonstration of the offered unit.
25.	The vendor will be solely responsible for replacement for all the 3 <sup>rd</sup> party accessories including UPS during warranty period.
26.	In case of any discrepancies with the offered unit and product data sheet, the product data sheet will be prevailed.
	<b>System should be provided with following transducer:</b>
A	2D Convex Abdominal probe with frequency range from 2-5 MHz $\pm$ 1 MHz
B	2D Linear probe with frequency range 4-12 MHz $\pm$ 1 MHz
C	2D Endocavity (TV) with frequency range 4-9 MHz $\pm$ 1 MHz