



Notice Inviting e-Tender

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**Supply and Commissioning of two (2) units of Echocardiography machines at
Department of Cardiology of IPGME&R-SSKM Hospital**

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-265/2025

Dated-03.04.2025

AMENDMENT-I

REVISED Technical Specification

Echocardiography Machines

1. The system should be state of the art with the facility of 2D, M-Mode, CDI, CW Doppler, Power Doppler, Directional power angio, and should have Imaging for abdomen, Cerebrovascular, peripheral vascular & superficial parts imaging, should have mandatory package for Adult & Pediatric Echocardiography.
2. System must have more than **7,00,000 / 7 Lac or more** digital processing channels.
3. System should have dynamic range of **256 dB** or more.
4. System should be offered with a 21 inch or more High Resolution Flat Panel Medical grade. Display monitor with facility for position adjustments with **8 inch** or more touch panel.
5. System should have at-least four universal active probe ports with electronic switching facility from key board without probe adapter.
6. Operating modes B-mode, M-mode, B/M Mode, Doppler Mode, Color flow, Power Doppler, DCA/DPA, B/Color flow, PW Doppler, CW.
7. Probes should be of board band type.
8. B Mode & color-flow images should be simultaneously available side by side in real time. Digital zoom facility for region of interest in real time and frozen images.
9. Image storage facility on in build hard disc or MOD/CD/DVDRW facility should be available. In built hard disk with minimum capacity of 500 gb or more. System should

- have extensive image management capability including thumb nail review. Cineloop editing etc
10. Cine loop as well as cine scroll facility in B mode with storage of 1000 or more images should be available
 11. Should have Real Time compound Imaging Technology with Multiple transmitted lines of sight in convex, linear and endocavitary probes. System should have stress echo package.
 12. Should be offered with speckle Reduction Imaging, panoramic imaging should be available.
 13. Advanced measurements & calculation package for abdominal, obst./gynae, urology and vascular and intracavitary invention applications should be available
 14. System should be capable of scanning up to depth of 30cm or more.
 15. System should be offered with a 2D frame rate if at least 1000 frames/second **or more**.
 16. System should have THI & should be able to work in combined mode of harmonic imaging and real time compound imaging to get excellent image quality. The system should offer Tissue Harmonic Imaging in Power Doppler imaging mode for improved sensitivity.
 17. Automatic real time & frozen tracing of instantaneous peak velocity & instantaneous mean velocity (or frequency) should be available. Triple, Imaging should be standard on the system.
 18. The system should be DICOM3.0 (or higher version) ready (like send, receive, print, record on CD/DVD, acknowledge etc.) for connectivity to any network, PC/computer etc. In DICOM format. Vendor will connect the machine to existing PACS and to local other laser cameras without additional cost.
 19. System should have MII certification Class 1 / Class 2.
 20. **The bidder should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.**

System should be offered with the following transducers

1. Adult echo Probe of – 2 to 5 MHz (+/-1) with Tissue Harmonics Imaging.
2. Pediatric Echo Probe of – 3 to 8 MHz (+/-1) with Tissue Harmonics Imaging.

Future Upgrade (Optional Prices to be quoted separately):-

1. 2D Adult/Paediatric TEE Probe of 2-7 MHz (+/-1).
2. Broad band Linear array transducer suitable for Vascular and small parts applications -5 to 12 MHz (+/-1).
3. Hockey Stick probe of 5-17 MHz (± 1).

3rd Party Item to be offered along with system.

1. UPS with 30 Min Back Up
2. Thermal Printer.

