



**RAJASTHAN MEDICAL SERVICES CORPORATION LTD.**  
D- Block, SwasthyaBhawan, TilakMarg, C-Scheme JAIPUR (Raj)



Ph. No. 0141-2223887, Fax No. 0141-2228065

CIN: U24232RJ2011SGC035067

E-Mail -[edepmrmisc-ri@nic.in](mailto:edepmrmisc-ri@nic.in)

F-8() RMSC/EPM/M-4/NIB-606/

Date:-

**CLARIFICATION/CORRIGENDUM/ADDENDUM**

**Subject: Amended technical specifications of item SONOGRAPHY COLOR DOPPLER SYSTEM for under NIB No. F No. F-8() RMSC/EPM/M-4/NIB-606/2021-22/863 Date 02.07.2021**

In reference to subject cited above NIB-606, various representation received from the firms and issues raised by the bidder are examined by the competent authorities and technical committee. The following clarification/corrigendum/addendum is issued for inclusion in bid document of items as below:-

**REVISED TECHNICAL SPECIFICATIONS OF SONOGRAPHY COLOR DOPPLER SYSTEM**

**Technical Specification of SONOGRAPHY COLOR DOPPLER SYSTEM**

*The system should be state of art with full digital technology & should be capable of whole body sonography & other applications for adult & pediatrics (infants & neonates) which includes abdominal, obstetrics, gynecology, peripheral vascular, transcranial, transvaginal, transrectal & small parts.*

1. The system should incorporate facility for high resolution 2D, 3D, M Mode, PW, Colour Flow Imaging, Power Doppler Modes.
2. The Equipment should have more than 30000 digital channels & should be up gradable on the site to higher numbers of channels. Higher number of channels is preferred.
3. The system should have 256 grey shades or more.
4. All transducer should have broad bandwidth for extreme high resolution 2D imaging. Frequency range of transducer should be 2 to 12MHz  $\pm$  1 or more.
5. System should have advance image processing algorithms to analyze between targets & artifacts so as to sharpen target anatomy, reduce the sparkle & artifacts for improve image quality.
6. **The system should have a high dynamic range of 180db or more. Higher dynamic range will be preferred. Scanning depth 30cm or more.**
7. The system should have a very high frame rate of 700 frames per second or more. Please specify frame rate in triplex mode.
8. The system should have harmonic imaging for tissue for hard to image patients. The system shall support tissue harmonic imaging capability on phased, linear, 3D and curved array transducers.
9. The system shall offer harmonic imaging in power doppler imaging mode for improved sensitivity & specificity in differentiating blood / agent from tissue.

10. The system should have a full alphanumeric keyboard with illuminated keys & status display.
11. The system should be able to support at least three transducers with universal ports allowing any transducers to be connected to any port.
12. The system should have high resolution fully articulating non-interlaced full flat HD (High Definition) display of 17" or more will be preferred with tilt & swivel facility.
13. The system should have facility for zoom (real-time & frozen image) & manipulation of image through pre processing & post processing with cine loop viewing of images of all modes.
14. System should have hard disc of at least 500GB or more.
15. The system should have facility of digital storage & retrieval of B/W & color image data (both frozen & cine loops) on built in as well as removable media (CD/DVD) and USB port.
16. The system should have automatic real time quantification of doppler parameters like velocity, frequency, time, heart rate slope, flow volume, pulsatility index, resistivity index, peak velocity, average value, point value, area & diameter flow volume etc.
17. The system should have capability of triplex display in real time with all probes.
18. The system should have extensive calculation software packages for general measurement obstetrics, gynecology, vascular and pediatrics.
19. Automatic fetal biometry measurements should be available.
20. Machine should be supplied with followings transducers:-
  - a) Broad band convex array transducer with multi frequency range of 2 to 5MHz  $\pm$  1 or wider range (Quantity- 1)
  - b) Broad band endocavitary probe with multi-frequency range between 4 to 10MHz  $\pm$  2 or wider range (Quantity- 1) (Angle of view should be mentioned)
  - c) Linear probe transducer 5 to 12MHz  $\pm$  2 (On both minimum and maximum) (Quantity- 1)
21. The system should have latest model with the following documentation devices.
  - a) Black & white thermal printer
  - b) **Thermal printer with Glazed (25nos) and ordinary (25 each) paper rolls Total Quantity- 50 rolls.**
22. All information in the tender document must be supported with product data sheet. Companies should quote the latest model.
23. Online UPS of appropriate rating should be provided with the system (Power backup of at least 30 minutes or more).

24. 3 years guarantee of complete unit including probes, online UPS, batteries and printer from the date of installation.
25. CMC: CMC shall be given @ 5% of net rate excluding GST (as applicable). CMC may be given for seven year (on yearly basis) after guarantee period of three years.
26. The quoted model should be USFDA/European CE (Notified Body) approved (Valid documentation should be submitted in technical bid).
27. The bidder will have to make an arrangement for demonstration of equipment at company cost with all due formalities as per PCPNDT act.
28. Company should have local service centre in Rajasthan.
29. Other terms and condition to be covered during guarantee period by the supplier:-
  - a) Response time- < 48 hours after lodge complain in complaint portal.
  - b) Service hours- As per health facility schedule.
  - c) Preventive Maintenance Schedule (PM)- As per OEM (Mention PM Schedule)
  - d) Calibration Schedule – As per OEM (Mention Schedule)
  - e) Up time- 95% (346 Days)
  - f) Technical & application support, demonstrations & trainings- As & when required.
  - g) Toll Free No-
  - h) Life of the equipment- As per OEM

**Note:-** 1. It is also clarified that information of award of contract shall be communicated to all participating bidders on the website [www.rmsc.health.rajasthan.gov.in](http://www.rmsc.health.rajasthan.gov.in) and [sppp.raj.nic.in](http://sppp.raj.nic.in). Please note that individual bidder will not be intimated.

  
**Executive Director (EPM)**  
**RMSCL, Jaipur**