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Portable USG Machine Specification

1. The system should be state-of-the-art model and all digital beam former for superior image quality with integrated light weight mobile cart and probes.
2. Should have accessories and probes holding basket.
3. The system should have General Sonographic and Vascular applications
4. Should have 17" or more high-resolution LED/ LCD monitor with tilt and swivel facility and should be able to view in all angles and all light conditions
5. System should be preferably spill proof and fluid resistant for easy to clean and disinfect
6. System cold start up time off to on not more than 90 second.
7. Should have three active ports, switchable electronically for Probe selection.
8. Should have an alpha-numeric keyboard with easy access scan controls and track ball.
9. Should have independently selectable gain control.
10. Should have 2D, M-Mode, Power Doppler, Pulsed Wave Doppler and Color Doppler.
11. Triplex imaging display modes on all probes
12. Should have Tissue Harmonic Imaging.
13. Should have color flow imaging
14. Should have dual imaging
15. Should have zoom capability
16. Should have dynamic range & gain
17. Should have cardiac package option
18. Machine should detachable from mobile trolley for transport purpose
19. The system should have extensive calculation software package for General ultrasonographic imaging, abdominal, small parts, vascular imaging and obstetrics and gynaecology including NT measurement, etc.
20. The system should have provision for measurement and calculation of distance, area, volume and circumferences on the image.
21. The system should have dedicated reporting pages for all the applications.
22. Should have patient reporting page with embedded images.
23. The system should have minimum 256 grey scales or more.
24. The system should have facility to store images in a hard disk of capacity 1 TB
25. Unit should function with 200-240V AC, 50/60 Hz input power supply.



26. Power cord should be Maldives standard
27. Should provide CD/DVD/Blue ray writer and USB port
28. Should be supplied with thermal printer and pack of thermal paper and the units should have an option to connect external printer.
29. Should supply 10 packets of thermal printing roll or paper, 5 jelly bottles
30. DICOM output facility without additional Hardware or software.
31. Should have inbuilt battery capacity of Minimum 1-2 Hr.
32. Should have safety certificate from a competent authority CE issued by a notified body registered in European commission / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.
33. Spares, Accessories and Consumables should available for the machine minimum 10 years from the date of installation
34. Service should available on Maldives
35. Should provide software CDs/USB for USG machine and Printer
36. Should Provide User, Service manuals for USG machine and Printer
37. Should provide suitcase for transport purpose of the machine

Probes

1. Should have operating frequency of 2-5 MHz broadband Convex probe for general imaging.
2. Should have 8-12 MHz broadband Linear Array probe for Vascular imaging.
3. Should have 4-9 MHz broadband Trans-vaginal Probe of FOV 1400 or above

Installation & Training

The firm should install the instrument at the designated location and provide onsite training/demonstration on Operation and Application of machine (Online Training not allowed).

Warranty

- Warranty should start from the date of installation
- Performance warranty of at-least 4 years from date of installation including USG Machine, Probes, Printer
- In case of breakdown of the machine, the supplier shall make the machine functional by repair (including replacement of parts) free of cost at the user site, within 3 (three) days of the receipt of complaint, or replace the machine (if necessary).
- Service training should provide to biomedical staff within 6 Months from the date of installation.

