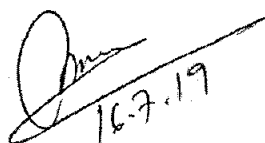
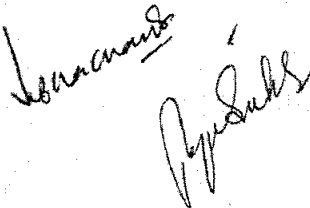


TECHNICAL SPECIFICATION OF HIGH END ULTRASOUND SYSTEM

1.	High end system capable of performing Obs-Gyn, Abdominal, Vascular, Small parts Musculoskeletal examinations along with shear wave elastography for liver, breast and thyroid
2.	The system should have following modes: 2D, M mode, PW, Color flow imaging, Directional color power angio imaging, Anatomical M mode, Pulse inversion harmonics, Tissue Doppler imaging, Duplex, Triplex, 3D, 4D imaging. The system should be upgradable to fusion imaging.
3.	The system should have minimum 21" high resolution LED monitor.
4.	Minimum 10" touch screen.
5.	More than 20,000,00 transmission channels.
6.	The system should have at least 4 active transducer ports.
7.	Cine for 256 frames and Loop review.
8.	System should dual live mode or equivalent.
9.	System should have Panoramic view.
10.	System should have auto IMT facility.
11.	System should have minimum 256 grayscales.
12.	The system should have minimum 1900 fps frame rate.
13.	System should have minimum 30 cm scanning depth.
14.	All transducer should have Broad Bandwidth Beamformer technology for high resolution 2D imaging
15.	System should have Tissue Harmonic Imaging.
16.	System should have softwares for noise and airfacts reduction that improves conspicuity and margin definition.
17.	Dynamic range should be 230 dB or more for better resolution of image.
18.	System should have auto optimization features and auto quantification of Doppler parameters in real time and freeze mode.
19.	Pan zoom on freeze and live mode.
20.	Facility for independent steering on B mode and color mode.
21.	Easy to use control panel with up-down & sideways movement with alphanumeric keyboard.
22.	System should have image management software. Image should be able to stored, retrieved, transferred and can be viewed in thumbnail.
23.	System should have minimum 500GB image storage facility.
24.	System should have DVD/CD R-W and USB port for image transfer.
25.	System should have DICOM facility.
26.	The system should have measurement package for General Imaging, Obs-Gyn, Vascular imaging, Elastography, 4D and Musculoskeletal imaging. The system should have 3D & 4D with STIC features for General imaging, Obstretic and fetal echo studies.
27.	The System should have contrast imaging.
28.	The system should be upgradable to Fusion technology .


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29.	The system and shear wave should be US FDA approved.
30.	<p>Following Probes should be quoted:</p> <ol style="list-style-type: none"> Single crystal/ Pure wave Convex probe with shearwave liver elastography of 1-6 MHz Endocavity probe with strain based Elastography for prostate & gynae application with 4-9 MHz (+ / - 1 MHz) Linear probe with Elastography 3-9 MHz. Linear probe for superficial imaging 5-16 MHz (preferably Hockey Stick type) Microconvex of 4-9 MHz Volume convex (preferably 1-8 MHz).
31.	System should be able to generate a color coded shear wave elastogram with a reference Adjustable Numerical elasticity scale for all the application. System should be able to display simultaneously both color coded shear wave elastogram and corresponding B-Mode image in real time for performing elastography guided biopsies/FNAC.
32.	Data sheet of the system should be provided along with the quote.
33.	System spares and service should be available for the next 7 years after completion of warranty period.
34.	Warranty of 5 years to be provided. After warranty CMC and AMC per year rate to be quoted.
35.	<p>Accessories</p> <ol style="list-style-type: none"> On-line UPS with capacity for an hour backup to support all functions of the equipment i.e. Performing Ultrasound procedure, exposure on to films or copy on a CD. Two numbers of Air Condition of a good quality of 1.5 Ton each to be provided. Thermal Printer and a DICOM compatible Color inkjet printer to be supplied. Both should be compatible with the system. Separate price to be quoted for a Dry chemistry camera of 500 DPI or more with two active trays. Examination couch with mattress, Operator's revolving chair (at least two), one metallic double foot step to be provided

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