

**TECHNICAL SPECIFICATIONS OF HIGH END COLOR DOPPLER
ULTRASOUND SYSTEM**

16/4/15

S.N O.	TECHNICAL SPECIFICIATIONS
1	It should be robust state of art, fully digital high end latest Color Doppler Ultrasound System capable of performing imaging applications in abdominal, obs/gynae, musculoskeletal, cardiovascular, small parts, Urology, Cardiology, TCD etc.
2	System should have broad band beam former capable of processing signals from 1-16 MHZ or more.
3	System should in corporate facility for high resolution 2D, M-mode, PW, CW, Color Flow Imaging, Color Power Angio imaging, Directional Color Power angio imaging modes, 3D/4D.
4	System should have to provide dual/Quad Imaging with B, B+C, B+PW, B+M etc.
5	System should have Full Spectrum Imaging, Speckle Reduction Filter, Spatial Compound Imaging, Pulse Inversion Harmonic Imaging , Trapezoidal Imaging & Contrast Enhanced Imaging (Low-MI),
6	System should have real time triplex mode facility in 2D, color and Doppler modes.
7	System should have dynamic range of 200 db or more.
8	System should have high PRF (mention rate-highest will be preferred).
9	System should have scan depth of 2 to 30 cm or more. Please specify through data sheet.
10	System should have 256 shades of gray display.
11	System should have minimum 900 frames per second or more. Please specify through data sheet, (maximum frames will be preferred.)
12	System should have facility for real time or frozen, pan or point zoom.
13	System should have cine loop review minimum 5400 frames, (maximum frames will be preferred.)
14	System should have minimum 125000 or more receiving channels. Please specify through data sheet.
15	System should have panoramic extended field of view for convex probe and linear probe.
16	System should have Advanced 4D capabilities like Multi Slice View, Oblique View, Mirror View, Volume Slice, Smooth Cut, OVIX etc.
17	It should have cardiac package for adult and fetal echocardiography.
18	It should have extensive software and automatic and user programmable calculation package for gray scale, color Doppler, 3D and 4D applications.
19	It should have minimum 19" high resolution medical grade TFT/LCD screen monitor with articulated arm.
20	System should have Touch Screen Control 9" wide or more.
21	System should have cardiac quantification like stress and strain. (UPGRADABLE)

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S.N O.	TECHNICAL SPECIFICIATIONS
	<ul style="list-style-type: none"> ● System should have one click color optimization for getting 3D Clinical data (face etc.) ● System should have capability of splitting the screen horizontally while doing dual imaging.
	System should be capable of sending structured reporting by DICOM 3.0.
	System should be provided with following transducers: 192 element porbs.
	<ul style="list-style-type: none"> ● Convex Abdominal 2-6 MHZ Approximately. ● Endocavity 4-9 MHZ approx. with 150 degree Radius or more. ● Linear high frequency 5-13 MHZ approx. ● Phased Array Sector 2-4 Mhz. approx for adult cardiac. ● Convex 4D probe 2-6 Mhz approx. ● Endocavity with 4D capabilities 5-9 Mhz. approx. ● Optional Probe (upgradability) ● Phased Array Sector 3-8 Mhz. approx for peadiatric cardiac. ● Phased Array Sector 4-12 Mhz. approx for Neonatal cardiac. ● TEE Pobe 3-7 Mhz ● <u>Maximum range frequency of probe will be preferred.</u> ● Linear high frequency hocky stick 5-13 MHZ approx. for MSK
22	The system shall have four transducer ports with electronic switching capability allowing any transducer to be connected to any port.
23	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 with built in CD/DVD read write.
24	System should have Elastography Imaging to evaluate tissue stiffness of breast, prostate and small parts applications on Linear and Endocavity Transducer with elastic quantification.
25	System should have automated 3D Calculation of NT/IT.
26	System should have TEE Probe capabilities.
27	Offered system must be USA FDA & European CE approved.
28	Please respond to each specification in the same format and order and support it with Product Data Sheet.

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Accessories (Essential)

1. Reputed make B/W Thermal printer with 10 Roll.
2. Reputed make online UPS of 2.5KVA.

Optional

1. Linear H/F Probe 5-13 MHZ for MSK.
2. TEE probe 3-7 MHZ.

Minor Parameter - NIL

SPECIAL CONDITIONS

1. Offered system must be USA, FDA & European CE approved.
2. Firm should have high reputation in national / international market for more than 10 years.
3. Firm should given the name and address of institution where similar unit is supplied in last 3 years.
4. Firm should give the copy of purchase order of similar unit supplied for verification of rates.
5. Warranty required is 03 years.
6. CMC/AMC rates should be given for five year after expiry of warranty period.
7. Name of local or nearest service centre should be given for after sales service.
8. Inspection of similar unit supplied may be required before purchase.

Md
1/26/19

Annexure-II

To be submitted by the firm along with offer.

Tender specification	Specification quoted by the firm	Deviation if any with clarification