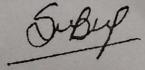
Donnler with 3 Probes (Linear, convex and 4D probe)

Techr	nical Specification of USG Colour Doppler with 3 Probes (Linear, con Purchaser's Specifications	Bidder's Offer
S. N.	USG Colour Doppler with 3 Probes (Linear, convex and 4D	
	probe)	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	Description of Functions	
1.1	A cart-based colour Doppler ultrasound imaging system with 4D probe.	
2	Operational Requirements	
2.1	It shall operate on AC power supply.	
3	Main Unit	
3.1	Fully Digital Colour Doppler Ultrasound DICOM compatible with advance application for General Ultrasound including Abdomen, Obstetrics, Gynecology, Cardiology, Small parts, Urology, Vascular, Pediatrics, Emergency Medicine, MSK, Nerve using Broadband Digital Beam former Technology.	
4	Technical Specifications	
4.1	Imaging Modes: B-Mode, M-Mode, Color M-Mode, Color Doppler Imaging, Power Doppler Imaging & Directional PDI, Pulse Wave Doppler, Tissue Harmonic Imaging.	
4.2	Systems Should have 3 Universal active Ports as standard configuration with electronic switching facility from keyboard without Probe adopter.	
4.3	The System should support broadband and multi frequency probes spanning a frequency of 2-16 MHz	
4.4	The Systems Shall have following Features:	
	Tissue Harmonic Imaging	
	Trapezoid for B image mode	
	Steer scanning for Linear probes (B, Color/Power, PW independent)	
	Spatial Compounding Imaging, available on convex & Linear Probe	
	Frequency Compounding Imaging	THE RESERVE
	Extended Field of View Imaging	
	Speckle suppression imaging Directional Power Doppler Imaging	
	Power Doppler Imaging, Directional Power Doppler Imaging	
	One key Image Optimization for B, Color, Power, PW Images	
	Zoom function with picture in picture indication on both frozen and live images	
	Zoom for one key image enlarged to full screen	
4.5	System should be capable of scanning depth up to 38 cm or more.	
4.6	System should have minimum 25,000 Digital Processing Channels for high resolution image with high acquisition frame rate	
4.7	System should have a dynamic range of minimum 30-240 dB.	

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S. N.	Purchaser's Specifications	Bidder's Offer
.8	System should have Control Panel with Height adjustments. It should	
	have a Full-sized Alphanumeric Keyboard with Track ball and Backlit	
	Keys.	
1.9	System should be Compact enough to transport within the hospital	
	along with wheel locking mechanism.	
1.10	System should have specific annotation and body markers.	
1.11	System Should have 2D Frame rate of at least 1000 frames/second.	
	Higher is preferred. Acquisition frame rate should be clearly	
	mentioned in the technical quote and supply with the documents.	
4.12	System should have Inbuilt Hard Disk with capacity of at least 1 TB.	
4.13	A complete range of measurement and calculation packages for	
	general and specific application, including Abdomen, Obstetrics,	
	Gynecology, Cardiology, Small parts, Vascular, Urology, and Gynecology, Cardiology, Small parts, Vascular, Urology, and	
	Pediatrics etc. must be available. Support user defined measurement item and obstetric formula.	
1.1		
4.14	Obstetric Analysis: BPD, HC, AC, FL, GS, CRL, NT, OB table/formula, GA formula	
4.15	Automatic OB Measurement and Calculation must be available	
	System should support Electronic Convex, Electronic Linear &	
4.16	Electronic Sector Transducers.	
4.17	Manager 12000 Frames or more.	
4.17	The standard he Minimum 18 inch color LED right Resolution	
4.10	Medical Graded Flat Panel Display with maximum viewing angle &	
	Provision to adjust swivel left/right of -178 to 178 degrees.	
	D 1 4 1266*768 pive	L
4.19	the effered with user-friendly High resolution with resolution	1
7.1)	The state of the s	
	Resolution: 1280*800. Also Support thin latex gloves on toden screen	
	and Touch Gestures	
4.20	System should have S-Video, HDMI, VGA, USB and Audio output	S.
	for storage of images and Hallston to External Berres.	
4.21	System should have feature of Transfer images and reports to Te	
	directly though wired network System should come with DVDRW, USB ports, Ethernet port and The small Printer for Printing	
4.22	System should come with DVDRW, USB ports, Effective port and should direct connectivity to Laser/Thermal Printer for Printing	
	should direct connectivity to Laser/ Therman Printer for Thinking	
	Images and Reports. System should have following upgradable features.	
4.23	System should have following upgradation reactions	
	1. Cardiac	
	2. Elastography Following Transducer should be available with the Unit:	
4.24		
4.05	Curved Array Transducer with 3-6 MHz for general Abdominal,	
4.25	LODICITAL Magaular Hrology Applications.	
100	Transducer with 6-16 VIHz for Small Organ, Vascular	r,
4.26	1 a diag Musculo-skeletal Nerve, rediatite Applications.	
1.5-	Real Time 4D Volume Convex Array Transducer with 2-6 MHz fo	r
4.27	OD/Com Abdomen Applications	
1.00	System should be provided with 1 unit of Black and White Therma	1
4.28	System should be provided with 1 different and	

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1.29	Purchaser's Specifications The Unit and Transducer class 111	
	The Unit and Transducer should be covered with comprehensive onsite warranty for Two Year commencing from the date of issue of Installation certificate	Bidder's Offer
4.30	Manufacturer shall commit the availability of spare parts and consumables and accessories for at least 7 years	
5	Accessories, Spare Parts and Consumables	
5.1	All standard accessories/consumables/ports (; 1 1)	
	the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.	
5.2	All standard Maintenance tools and cleaning /lubrication materials where applicable shall be included. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.	
5.3	Online UPS for the main unit should be provided.	
6	Operating Environment	
6.1	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.	
7	Standards & Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate	
7.3	Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.	
8	User Training	
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users. Training regarding use of 4D probe should be given by manufacturer Company application Engineer.	
9	Warranty	
9.1	Comprehensive warranty for 2 years after installation of the machine.	
10.1	Maintenance Service During Warranty Period	
	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.	Supplier must accomplish proper installation & commissioning of equipment onsite.	
12	Documentation	
12.	oser (Operating) manual in English.	
14.	Must submit manufacturer's authorization letter Er. Sujata Bhattarai	

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