

Amendment No.4

Date-28.02.2024

Sub: Amendment No. 04 to the Tender Enquiry DocumentRef: Tender No: **HITES/PCD/RML/05/Mix/23-24 dated 23-01-2024**Tender ID : **2024_HITE_182534_1****Section VII
Technical Specifications**

Tender Ref: HITES/PCD/RML/05/MIX/23-24 dated 23-01-2024		
High End Ultrasound Machine with Color Doppler (2024_HITE_182534_1)		
Tender spec Para	TENDER SPECIFICATION	READ AS
7	The system must be high end and should be "state of the art" with fully digital technology. Equipment to incorporate the facility of 2D, M mode, CDI, PW doppler, Power Doppler, contrast imaging, strain and shear wave elastography imaging, cerebrovascular, peripheral vascular, transcranial and superficial parts like breast, scrotum, thyroid and Musculoskeletal. Also fusion and navigation application should be available.	The system must be high end and should be "state of the art" with fully digital technology. Equipment to incorporate the facility of 2D, M mode, CDI, PW doppler, Power Doppler, contrast imaging, strain and shear wave elastography imaging, cerebrovascular, peripheral vascular, transcranial and superficial parts like breast, scrotum, thyroid and Musculoskeletal.
8	System must have the following Transducers/probes:	
8b	Matrix Linear Transducer Freq. bandwidth: 6-15MHz +/-1MHz	Matrix/Single crystal Linear Transducer Freq. bandwidth: 6-15MHz +/-1MHz
8e	Endocavity Biplane curved array transducer for Urological (Prostate) examinations, freq. bandwidth: 5-10 MHz \pm 1 MHz	Endocavity curved array transducer for Urological (Prostate) examinations, freq. bandwidth: 5-10 MHz \pm 1 MHz. Biplane (optional)
8f	Sector array transducer for Pediatric cardiac imaging freq band width 1-7 MHz +/- 1MHz	High resolution linear transducer 9-20MHz +/-2MHz with small footprint for musculoskeletal imaging
8g	Strain and Shearwave elastography probes: a) Convex SWE Transducer freq. band width 1-5MHz b) Linear Strain and SWE transducer freq. bandwidth 5-10MHz c) Endovaginal Strain transducer frequency Bandwidth 4-9MHz	Strain and Shearwave elastography probes: a) Convex SWE Transducer freq. band width 1-5MHz b) Linear Strain and SWE transducer freq. bandwidth 5-10MHz c) Endovaginal Strain/shear wave transducer frequency Bandwidth 4-9MHz
8h	Real-time 2D Shear wave elastography with adjustable box with colour fill should be available in convex & linear probes , also measurement should be available in Kpa & m/s simultaneously.	2D Shear wave elastography with adjustable box with colour fill should be available in convex & linear probes , also measurement should be available in Kpa & m/s simultaneously.
12	The system should perform minimum of 2000 frames/sec	The system should perform minimum of 1900 frames/sec
28	The System should have at least four imaging universal active transducer port & <u>one Parking port</u> . The ports should have electronic switching	The System should have at least four imaging universal active transducer port. The ports should have electronic switching facility from key board without probe adaptor.

	facility from key board without probe adaptor.	
36	The system should have FDA approved Real Time Elastography for Liver Breast Prostate and all other applications. Also the following features should be available in Elastography package:	The system should have FDA approved Elastography for Liver Breast Prostate and all other applications. Also the following features should be available in Elastography package:
36b	Endocavity Biplane curved array transducer should support prostate elastography. Necessary software should be built inn.	Endocavity curved array transducer should support prostate elastography. Necessary software should be built inn.
43	Monitor: Monitor Size should be 22" (inch) or more Back Lit LED-LCD Monitor with Easy Grip.	Monitor: Monitor Size should be 21" (inch) or more Back Lit LED-LCD Monitor with Easy Grip.
50e	One good quality color paper printer and scanner with cartridges.	One good quality color laser printer
50n	Biopsy guide attachment;	
	b. Linear array 5-9 MHz: one in number (Non disposable)	b. Matrix/linear transducer bandwidth of 6-15MHz +/- 1MHz : one in number (Non disposable)
		Added para: d. Biopsy attachment for both TVS and TRUS probe separately
50v	Cartridges for printer, batteries for UPS in warranty and CMC part.	UPS with batteries and Cartridges for color laser printer to be included in warranty and CMC. 24 nos of cartridges per annum shall be supplied along with the machine in staggered manner. Glossy paper sheets A 3/4 size 1000 per annum in staggered manner for color laser printer.
		Added para:
		51. The system should have capability of liver fat quantification
		52. System should have capability of plaque quantification
		53. The company to mention the highest end model and same to be quoted

Note: If EMD is submitted in the form of BG, then the validity of the BG should be at least 225 days from the date of tender opening.

All other terms and conditions of the tender enquiry remain unaltered