

ECHOCARDIOGRAPHY SYSTEM

Sr. No.	Technical Specifications	Qty
1.	Imaging platform <ul style="list-style-type: none"> • Convenient touch screen platform for combined ultrasound imaging and quantification. • M-Mode or Motion mode, single line acquisition allowing high-temporal resolution for analysis of cardiovascular function. 	1
2.	LV Trace Tool <ul style="list-style-type: none"> • Allow tracing of left ventricular (LV) walls during systole and diastole, to generate calculations of cardiac function. 	1
3.	PW Doppler Mode <ul style="list-style-type: none"> • 2D and power doppler acquisition for the visualization of low flow states and relative quantification of smaller vessels using advanced digital signal processing techniques. 	1
4.	Anatomical M-Mode <ul style="list-style-type: none"> • Allow tracing to steer the sample volume to any angle than having sample volume in a strict vertical position. 	1
5.	Image acquisition workstation <ul style="list-style-type: none"> • Image acquisition and analysis software for measurement and annotations for data from the imaging platform. System requirement of 8GB RAM, 4 GHz dual core processor, 1TB hard drive, 2 USB ports, video card with minimum resolution of 1024 x 768 in 32-bit colour mode. 	1
7.	Transducer with approx. 10-20 MHz broadband frequency	1
8.	Transducer with approx. 20-45 MHz broadband frequency	1
9.	Optical fused silica fiber for high efficacy light delivery that fits into the transducer fiber jacket.	1
10.	Imaging station <ul style="list-style-type: none"> • Bench mounted adjustable rail system custom designed for small animal handling, positioning and imaging optimization. 	1
11.	Animal handling table <ul style="list-style-type: none"> • For placement, warming animal and physiological monitoring and manipulation. 	1
12.	Transducer array holder	1
13.	Approx. 2-meter-long power cord for Indian power supply	1
14.	Hands on training on the device usage	
15.	Vendor <ul style="list-style-type: none"> • Vendor should have a good track record of selling systems with at least 10 installations across India especially in institutes like IITs, IISERs, IISc, CSIR labs. • Vendor should submit at least 3 performance certificates for similar systems • Vendor should have a local presence with good track record of after sales support in Chennai • Installation and Training should be done at IITM. 	
16.	Warranty 5 years warranty and 2 years AMC included on all the above components	