

## TECHNICAL SPECIFICATIONS FOR ECHOCARDIOGRAPHY SYSTEM

Sr. No.	Technical Specifications	Qty
1.	<b>Imaging platform</b> <ul style="list-style-type: none"> <li>• Convenient touch screen platform for combined ultrasound imaging and quantification.</li> <li>• <b>B-Mode</b>, two-dimensional ultrasound image display</li> <li>• <b>M-Mode</b> or Motion mode, single line acquisition allowing high-temporal resolution for analysis of cardiovascular function.</li> <li>• <b>3D-Mode</b>, volumetric acquisition of tumours and other structures for quantification and assessment.</li> </ul>	1
2.	<b>LV Trace Tool</b> <ul style="list-style-type: none"> <li>• Allow tracing of left ventricular (LV) walls during systole and diastole, to generate calculations of cardiac function.</li> </ul>	1
3.	<b>PW Doppler Mode</b> <ul style="list-style-type: none"> <li>• 2D and power doppler acquisition for the visualization of low flow states and relative quantification of smaller vessels using advanced digital signal processing techniques.</li> </ul>	1
4.	<b>Anatomical M-Mode</b> <ul style="list-style-type: none"> <li>• Allow tracing to steer the sample volume to any angle than having sample volume in a strict vertical position.</li> </ul>	1
5.	<b>Image acquisition workstation</b> <ul style="list-style-type: none"> <li>• 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.</li> </ul>	1
7.	Transducer with approx. 20-45 MHz broadband frequency Applications: Abdominal, Cardiovascular, Tumours. Optional: Reproductive	1
8.	Optional: Transducer with approx. 10-20 MHz broadband frequency	1
9.	Optical fused silica fiber for high efficacy light delivery that fits into the transducer fiber jacket.	1
10.	<b>Imaging station</b> <ul style="list-style-type: none"> <li>• Bench mounted adjustable rail system custom designed for small animal handling, positioning and imaging optimization, allows easy movement and manipulation of the mounted animal.</li> </ul>	1
11.	<b>Animal handling table:</b> For placement, warming animal and physiological monitoring and manipulation.	1
12.	Transducer array holder	1
13.	<b>Injection Mount:</b> Micro manipulation control and rail system extension	1
14.	Anaesthesia system that integrates with small animal handling platform	1
15.	Approx. 2-meter-long power cord for Indian power supply	1
16.	Hands on training on the device usage	
17.	<b>Vendor</b> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Vendor should submit at least 3 performance certificates for similar systems</li> <li>• Vendor should have a local presence with good track record of after sales support in Chennai</li> </ul>	
16.	<b>Warranty</b> 5 years warranty and 2 years AMC included on all the above components	