

RESTRICTED

ANX D TO

DGDP TENDER NUMBER 216.07.486.25

DATED: 06 NOVEMBER 2025

DESCRIPTION OF TECHNICAL SPECIFICATION FOR COLOR DOPPLER ECHOCARDIOGRAPHY MACHINE WITH PROBE, A. ADULT CARDIAC TRANSDUCER PROBE, B. LINEAR PROBE, C. 3D TEE (TRANS ESOPHAGEAL), D. 3D PROBE FOR TRANS THORACIC, QUANTITY-01, (DP-5)

(Tenderer must fill up this format without changing its basic structure)

Ser no	Description	Technical specification	To be filled up by the Principal/ Manufacturer
(a)	(b)	(c)	(d)
1.	<u>General Specification:</u> General specifications are as under :		
	a. Nomenclature	Color Doppler Echocardiography Machine with Following Probe: (PVMS-270294, Qty-01) a. Adult Cardiac Transducer Probe. b. Linear Probe c. 3D TEE (Trans Esophageal) d. 3D probe for Trans Thoracic	
	b. Brand	To be mentioned.	
	c. Model	To be mentioned. Model should be latest.	
	d. Name of Manufacture with Complete Address	To be mentioned.	
	e. Name of Principal with Complete Address	To be mentioned.	
	f. Name of Local Agent with Complete Address	To be mentioned.	
	g. Year of Production	Not before the calendar year of contract.	
	h. Country of Origin & Manufacturer	Group-A: Bangladesh, Australia, Austria, Belgium, Brazil, Canada, Denmark, Finland, France, Germany, Indonesia, Ireland, Japan, Luxemburg, Netherlands, Norway, Singapore, Spain, Sweden, Switzerland, Turkey, UK, USA, South Korea & Italy.	
	j. Port of shipment	Same country of manufacture for Main System. Other Items/ Equipment/ Accessories and Local supplied item to be mentioned specifically.	
2.	<u>Technical Specification:</u>		
	a. The system must be latest generation, highest & technologically advanced digital 4D (Live 3D) TTE & TEE echocardiography system.		
	b. System should have frame rate 2800 FPS or more.		
	c. System must have adult cardiology transducer with broadband technology or equivalent for excellent grayscale image quality on difficult to image patients. Please mention the technology used in the transducer.		
	d. System must be offered with a minimum 22 inch or higher OLED/HDU high resolution monitor. 12 inch Touch Panel.		
	e. System should have at-least Four imaging active probe ports with electronic switching facility from key board without probe adapter.		
	f. System should be capable of supporting second generation 4D(Live3D) matrix TEE transducer capable of supporting exceptional 4D (live 3D) Echo, 4D(Live 3D) zoom.		



RESTRICTED

Ser no	Description	Technical specification	To be filled up by the Principal/Manufacturer
	g. System should support board band probes spanning a frequently of 1-15MHz (+2).		
	h. Image storage facility on in build hard disc with capacity of 1TB SSD. System should have extensive image capability including thumb nail review. Cine loop editing etc. management.		
	j. System must be offered with spackle reduction imaging: Image processing technique to remove speckles and clutter artifacts. System should have 4D depth rendering technology with light source and transparency to improve regurgitation assessment.		
	k. System should be capable of scanning depth of 30 cm. Scanning Depth should be clearly mentioned in the technical quoted if not mentioned Please attach a letter from manufacturer along with the technical bid clearly stating the scanning depth of 30 cm in the offered system.		
	l. Should be able to perform advanced quantification measurements like Automated strain & CRT quantification. Should measure the myocardial velocity and derives the strain rate and strain along user-defined M-lines, Capable of drawing up to M-lines at a time, Capable of sub-dividing each M-line into 8 sub-regions or according to user-defined sub-region sizes, Point of interest tool obtains values from any point on the M-mode display. In addition to the tissue Doppler based strain system should have 2D based strain like AFI or Automated Strain for LV, LA and RV should be offered.		
	m. System should have automated/semi automated 2D tools for TAPSE, LA Volume, EF assessment.		
	n. The system should have the facility of dual light source depth rendering technology.		
	p. Same patient with a directory and compare side by side with previous studies.		
	q. Integrated stress Echo facility to perform Stress Echo exams. Images can be used later for Strain offline as well. System should have Automated Three layer strain with Segments approval and deletion.		
	r. Should have the state of the art Transmit real time compound Imaging Technology with Multiple transmitted lines of sight, wherein multiple coplanar Images from different viewing angels are obtained and combined into a single compound image at real-time frame rates for improved visualization. Should demonstrate and show multiple transmitted line of sight in liner probes.		
	s. System Should have 4D dynamic LV, RV, LA Volume. Mitral Valve and tricuspid valve tomography representation.		
	t. Cardiac Auto Doppler with Artificial intelligence. System should have Physio and respiratory signals through ECG.		
	u. 4D Right Ventricle Quantification for TTE and TEE.		
	v. System Should be offered with Software beam forming technology, cSound or equivalent.		
	w. 2D AI based measurement Auto EF, LV Strain, Auto LV Study should be offered.		
	x. CRT Tools should be offered on the system.		
	y. System Should be offered with tomographic representation for Mitral Valve, Tricuspid Valve.		



RESTRICTED

Ser no	Description	Technical specification	To be filled up by the Principal/Manufacturer																
	z. Multi slice imaging from 4D with up to 12 Slice.																		
	(1) 2-5 MHz Broadband 2D adult echo transducer for adult cardiology imaging. Must have Tissue harmonic Imaging.																		
	(2) 1-5 MHz Active Matrix 4D TTE Probe with wider apex.																		
	(3) 3-8 MHz Customizable button Adult 2D TEE Probe																		
3.	Standard accessories: a. Thermal B/W Printer. b. Color Printer (Print command via main console not via PC c. 3 KVA Online UPS for 30 minutes Back up																		
4.	Optional accessories (if any): To be mentioned																		
5.	Power Supply	Auto stabilized 220 -240 VAC, 50Hz																	
6.	Complete BOQ/BOM. All Foreign & Local supplied items to be listed separately for full range of operation of the equipment as per following table:																		
	<table border="1"> <thead> <tr> <th>Ser</th><th>Name of item</th><th>Qty</th><th>Brand</th><th>Model</th><th>Country of Origin</th><th>Country of Manufacturer</th><th>Remarks</th></tr> </thead> <tbody> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Ser	Name of item	Qty	Brand	Model	Country of Origin	Country of Manufacturer	Remarks										
Ser	Name of item	Qty	Brand	Model	Country of Origin	Country of Manufacturer	Remarks												
7.	Local Training																		
	a. Operational Training	02x Operator for 02 weeks.																	
	b.Repair/Maintenance Training	Not Required																	
8.	Warranty	03 (Three) years warranty from the date of issuance Inspection Note (I/Note)																	
9.	After sales service	10 (Ten) years from the date of installation.																	
10.	Certificate of quality	US-FDA & EU-CE / US-FDA & JIS certificate to be submitted with the offer.																	
11.	Books and Publication	Following books and publication will be supplied in English along with the stores free of cost. a. Operational manual – 03 Copies (01x Original & 02x Photocopies) b. Repair/Maint/Service manual including details circuit/Schematic diagrams– 03 Copies (01x Original & 02x Photocopies) c. Parts Catalogue/Master Parts list– 03 Copies (01x Original & 02x Photocopies) d. 100% Spare Parts list with price – 02 x Original copies Note: In addition to hard copy, a soft copy CD/DVD containing all books and publications will be supplied by the supplier free of cost.																	
12.	If any other feature/items not listed above but required for full range of operation of the offered equipment to be mentioned and to be supplied free of cost with main equipment.																		

