

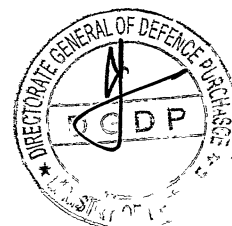
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ANX D TO
DGDP TENDER NUMBER 216.07.479.25
DATED: 30 OCTOBER 2025

DESCRIPTION OF TECHNICAL SPECIFICATION FOR HEART LUNG MACHINE
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 Principal/ Manufacturer
(a)	(b)	(c)	(d)
1.	<u>General Specification:</u> General specifications are as under :		
	a. Nomenclature	Heart Lung Machine Complete, PVMS-080660, Qty-01	
	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/ Equipments/ Accessories and Local supplied item to be mentioned specifically.	
2.	<u>Function/Capability:</u> It pumps blood while heart is stopped and adds oxygen to the blood before it is pumped throughout the body.		
3.	<u>Features/Facilities:</u> a) Touch screen control panel to direct-drive roller pumps and others features including safety monitor. b) Individual monitor for Cardioplegia, Level sensor, Bubble sensor, Temperature for 4 channel and others. c) The system panel should have facility to inter-change the monitor on emergency		
4.	<u>Technical Specification:</u>		
	a) System base for 5 pump console\5 pump heads for 4 large roller pump (one must mount roller pump) (one centrifugal pump) and 1 twin roller pump.		
	b) Pump Heads should have rotating facility for perfect positioning relative to the surgical site.		
	c) All pumps should have individual touch screen monitor and connect with the central monitor.		
	d) All pumps should have Pulsatile Flow control option.		
	e) Console should have facility to integrate centrifugal pump without change the position of any roller pumps.		
	f) Audible Alarm/sensor in all pump cover for safety reason.		
	g) Pump reverse guard for safety reason.		
	h) Hand crank.		
	j) Blender (air/oxygen/ Carbon dioxide mixer) with hoses.		
	k) One heater cooler unit with complete accessories		



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5.	Standard accessories:																			
	a) Dual pressure control display monitor/ module.																			
	b) Level sensor 1000 pcs																			
	c) Isoflurence vaporizer with flow meter.																			
	d) One cross tray on top of pump with 200-240v power unit.																			
	e) Timer Display Monitor different channel.																			
	f) Level detector Monitor blood level in the Oxygenator.																			
	g) Air bubble detector 3/8", 1/4 ".																			
	h) Temperature Module																			
	i) Temperature Probe for use with venous reservoir(as per requirement of CVS perfusion unit, CMH Dhaka): 2pcs																			
	j) Halogen Lamp/LED:1pc																			
	k) PressureMonitoringTransducer:4pcs																			
	l) PressureTransducerCable:2pcs																			
	m) TransducerHolder:1pc																			
	n) Heating cooling blanket with connecting tubing set-adult—02 pcs (for H/C machine)																			
	o) CAN cable connector for connecting to the HLM (with H/C)																			
	p) Revolving chair suitable to run HLM																			
6.	Power Supply	Auto stabilized 220 VAC $\pm$ 10%, 50 Hz Internal battery module for providing uninterrupted back-up for 120 minutes entire system.																		
7.	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" style="width: 100%;"> <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									
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8.	Foreign Training																			
	a. Operational Training	Not required																		
	b.Repair/Maintenance Training	Not required																		
9.	Local Training																			
	a. Operational Training	04x Perfusionists for 02 week. (Preferably from country of origin)																		
	b. Repair/Maintenance Training	04x EM Technician for 02 weeks. (Preferably from country of origin)																		
10.	Warranty	05 (Five) years from the date of issuance inspection note (I/Note)																		
11.	After sales service	10 (Ten) years from the date of installation.																		
12.	Certificate of quality	FDA/CE/JIS Certificate must be submitted with offer.																		
13.	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.																		
14.	Other feature/items not listed above but required for full range of operation of the offered equipment to be mentioned and to be supplied with main equipment.																			

