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ANX D TODGDP TENDER NUMBER 216.07.490.25DATED: 20 NOVEMBER 2025**DESCRIPTION OF TECHNICAL SPECIFICATION FOR CONE BEAM CT SCAN (CBCT),
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	Cone Beam CT Scan (CBCT), PVMS-NIV, Qty-01	
	b. Brand	To be mentioned.	
	c. Model	To be mentioned. Model should be latest.	
	d. Name of Manufacture with Complete Address including website	To be mentioned.	
	e. Name of Principal with Complete Address including website	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> Movement artifact correction system, Metal artifact reduction, Noise removal System, Pioneering low dose 3D Imaging system are to be available.		
3.	<u>Features/Facilities:</u>		
	a. The system should have 4 In One Cone Beam CT Scan (CBCT), 2D PANO , CEPH. & MODEL SCAN. Details to be mentioned. (Including All Software)		
	b. Should have 360°CT rotation for scan and provides high-resolution image.		
	c. Should have the user-friendly touch operating panel in the system for patient positioning.		
	d. CT scan area can be changed vertically without moving the patient provides quick patient Positioning.		
	e. Adopting face-to-face positioning method provides comfortable positioning procedures.		
	f. Should have the function to check bone density of patient affected area and MAR Function or equivalent.		
	g. Should have the 3D Image view and DICOM print function.		



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	h. Should have double scan Facility.		
	j. Should have Endo mode with high resolution		
	k. Should have forty layers on PANO images.		
	l. All Implant software should be available.		
4.	<u>Technical Specification :</u>		
	a. Power requirement: 2.0 KVA or more		
	b. Tube voltage: 60KV to 99KV (1KV Step)		
	c. Tube current: 12mA to 16mA or more (1mA Step)		
	d. Focal spot: 0.5mm (Maximum)		
	e. Total Filtration: 2.5mm Al (Min) or more		
	f. Positioning beams: 3 laser beams		
	g. Panoramic Sensor: FPD(CMOS)		
	h. Cephalometric Sensor: CMOS		
	j. Exposure mode: Adult, Child and Ortho radial Panoramic Radiograph		
	(1) Exposure for short time:		
	(a) CEPT: 1.9 Sec to 2.4 Sec		
	(b) CT: 2.9 Sec to 3.9 Sec		
	(c) PANO: 3.9 sec to 5 Sec		
	(2) Exposure for normal time:		
	(a) CEPT: 3.9 Sec to 5 Sec		
	(b) CT: 9 Sec to 10 Sec		
	(c) PANO: 13.5 sec to 14.5 Sec		
	(3) 4 section views of TMJ: Lateral; Exposure time: 6.7 Sec to 8 Sec		
	(4) Maxillary Sinus Exposure Time: 7 Sec. to 8 sec.		
	k. Exposure area:		
	(1) Lateral FOV Normal: (110 x 279 x 20) mm or more		
	(2) Frontal: (110 x 279 x 20) mm or more		
	(3) Exposure Time: 3.9 sec to 5 Sec.		
	(4) Magnification Ratio: 1:1:14 or more		
	l. Bones of Carpus Standard		
	(1) Exposure area: 110 mm x 279 mm or more		
	(2) Magnification Ratio: 1:1:14 or more		
	(3) Exposure Time: 3.9 Sec to 5 Sec.		
	m. CT:		
	(1) FOV 1 : Endo Mode-40mm x 40mm in 50micron , Voxel: 50mm x 50mm/ 50mm x 80mm		
	(2) Exposure area: R or L , L-TMJ, R-TMJ		
	(3) Voxel size: 0.05mm, 0.05mm/0.12mm		
	(4) Exposure time: 4.5 Sec. to 5 Sec./180°, 9 Sec. to 12 Sec./ 360°		
	n. CT :		
	(1) FOV 2: 80mm x 80mm, 90mm x 120mm, 16mm x 15mm or more		
	(2) Exposure area: R or L , L-TMJ, R-TMJ		
	(3) Voxel size: 0.19mm to 0.2 mm, 0.3mm to 0.4mm		
	(4) Exposure time: 4.5 Sec. to 5 Sec./180°, 9 Sec. to 12 Sec./360°		



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	p. CT:		
	(1) FOV 3:90mm x 160mm or more		
	(2) Exposure area: Full jaw		
	(3) Voxel size: 0.3mm to 0.5mm		
	(4) Exposure time: 9Sec to 12Sec/360°		
	q. 3D Scanning for Model: To be available		
	r. Footprint Dimension: To be mentioned.		
	s. User-friendly icon design supports 2D and 3D display diagnosis on the PC		
	t. Base & Stand:		
	(1) Floor Base Stand Type		
	(2) Wheel chair accessibility		
	u. Operating Console/PC:		
	(1) HP/DELL/LENOVO Brand PC, Intel Xeon Process or (latest version)		
	(2) Intel Xeon Processor (latest version) , PCI Express empty slot x1		
	(3) Windows Operating System, 16GB RAM, Data Storage Capacity: 1TB SSD, 6GB		
	Graphic or more		
	(4) Monitor: 23" (IPS, FHD, LED) or more		
	v. Dry Film Laser Printer with two trays:		
	(1) Printing Capacity: more than 60 film per hour.		
	(2) Network Connectivity: DICOM		
5.	<u>Standard Accessories:</u>		
	a. Head support for Panoramic – 2 Nos.		
	b. Ear support for TMJ- 2 Nos.		
	c. Chinrest for Panoramic- 2Nos.		
	d. Chinrest for CT and Maxillary Sinus -2 Nos.		
	e. Chinrest for CT for TMJ - 02 Nos		
	f. Bit Block for Panoramic– 02 Nos.		
	g. Bit Block Cover (Disposable) - 300 Pcs.		
	h. LAN board Intel gigabit CT- 1 No.		
	j. Lead Apron (0.5mmpb)–2Nos. (supplied locally); Brand & Model, Country of Origin & Manufacture : Gp A or B : To be mentioned		
	k. 5 KVA Online UPS–01No. (supplied locally); Brand & Model, Country of Origin & Manufacture : Gp A or B: To be mentioned		
	l. Dry Film Laser Printer–1No. (supplied locally); Brand & Model, Country of Origin & Manufacture: Gp A or B: To be mentioned		
	m. X-Ray Dry Film–1Pack (supplied locally); Brand & Model, Country of Origin & Manufacture: Gp A or B : To be mentioned		
	n. AC (1.5 Ton) – 1 No(Supplied locally); Brand & model, Country of Origin & Manufacture: Gp A or B : To be mentioned		
	p. AC (1 Ton) – 1 No. (Supplied locally); Brand & Model, Country of Origin & Manufacture: Gp A or B : To be mentioned		
	q. Dehumidifier- 2 Nos (Supplied locally); Brand & Model, , Country of Origin & Manufacture: Gp A or B : To be mentioned		
	r. PC (supplied locally); Brand &Model, Country of Origin & Manufacture: Gp A or B : To be mentioned		



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6.	Optional accessories (if any): To be mentioned		
7.	Power Supply	Auto stabilized 220 -240 VA	
8.	Complete BOQ/BOM. All Foreign & Local supplied items to be listed separately for full range of operation of the equipment as per following table:		
	Ser	Name of item	Qty
		Brand	Mode l
		Country of Origin	Country of Manufacturer
			Rema
9.	Local Training		
	a. Operational Training	03 x Operators for 01 week	
	b. Repair/Maintenance Training	03 x EM Technician for 02 weeks	
10.	Warranty	05 (Five) years warranty 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.	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.		

