ANX D TO DGDP TENDER NUMBER 216.07.485.25 DATED: 06 NOVEMBER 2025

# DESCRIPTION OF TECHNICAL SPECIFICATION FOR 1000-1200 MA/150 KV X-RAY MACHINE WITH STANDARD ACCESSORIES, QUANTITY-01, (DP-5)

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

Ser	Description	Technical specification	To be filled up by the principal / Manufacture					
no		(c)	(d)					
(a)	(b) General Specification: Ge							
1.								
	a. Nomenclature	1000-1200 MA/150 KV. X-Ray Machine with Standard Accessories, PVMS-210004, Qty-01						
	b. Brand	land Marie should be leter						
	c. Model d. Name of Manufacture							
	with Complete Address							
	e. Name of Principal with	,						
	Complete Address							
	f. Name of Local Agent	To be mentioned.						
	with Complete Address	the state of contract						
	g. Year of Production	Not before the calendar year of contract.						
	h. Country of Origin &	Group-A: Bangladesh, Australia, Austria, Belgium,						
	Manufacturer	Brazil, Canada, Denmark, Finland, France,						
		Germany, Indonesia, Ireland, Japan, Luxemburg,	Plaint .					
		Netherlands, Norway, Singapore, Spain, Sweden,						
		Switzerland, Turkey, UK, USA, South Korea & Italy.  Same country of manufacture for Main System. Other						
	j. Port of shipment	Items/ Equipment's/ Accessories and Local supplied item						
		to be mentioned specifically.						
	Function/Capability: To be							
2.	Features/Facilities: Follow							
٥.	available.	-						
	a State of the art high end							
	based auto positioning and							
	b. Integrated Flat detector of							
	c. Should have AEC with m							
	d. Should have automatic > optimization of the exposur							
	opulnization of the exposul							
	e. The system should have							
	f. The system should have							
	g. Continuous monitoring fa							
	to avoid the risk of overload							
	h. Memory for different rad							
	j. Anatomical Programmers							
	k. Light beam Collimator to							
	I. Diagnostic X-Ray Table V	4						
	m. Vertical Bucky Stand wi							
	n. Removable Grids for Ve							
	n Integrated X-Ray and D							
	g. The Detector and the C							
	integrated with the X-ray c	ON OF DECK						

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Ser	Description	Technical specification	To be filled up by the principal / Manufacture
no			/ Wallulacture
4.	Patient Table:  a. Table with flat table to longitudinal tube travel and to b. Max. Patient Coverage c. Table height d. Max patient weight e. Table top dimensions more f. Longitudinal travel (Table g. Transverse travel (Table)	: 190±2 cm : 52cm – 95cm (continuously adjustable) : 300Kg or more : 220 mm or more (motor-driven) with 30 mm/sec or	
5.	High Frequency Generato		
	a. Microprocessor controlled technology with constant out b. Generator capacity must c. KVP range 40 KV-150 KV d. mA Output Should be 800 e. Exposure time should be f. Generator capacity must be g. Automatic exposure contained wall stand each.  h. Anatomical Protocol (AF protocol which is needed j. The generator must be combe possible to control all exposure contained in the second standard protocol which is needed j. The generator must be control all exposes the control all expose		
6.	X-ray Tube :		
	a. 10" multi-functional toucl operation next to patient.		
	b. Nominal voltage	: 150 kV or more	
	c. Dual Focal Spot	: 0.6/1.2 or more	
	d. Anode heat storage capa	190 Uz or more	
	e. Anode drive frequency f. Total filtration	: 180 Hz or more : > 2.5 mm Al	
	11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	uto filter programmed with APR	
	a Should have motorized a		
	9. 0	at about the necessition using DAD motor	
	h. Patient Dose Measureme	ent should be possible using DAP meter	
7.	h. Patient Dose Measureme Primary collimator:	ent should be possible using DAP meter	
7.	h. Patient Dose Measureme Primary collimator:  a. Manual or Motorized con	ent should be possible using DAP meter trol pre-set via organ programs	
7.	h. Patient Dose Measureme Primary collimator:	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al	
7.	h. Patient Dose Measureme Primary collimator:  a. Manual or Motorized con b. Inherent filtration at 80kV c. Cu-prefilter 0.3 mm	trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm,	
7.	h. Patient Dose Measureme Primary collimator:  a. Manual or Motorized con b. Inherent filtration at 80kV c. Cu-prefilter	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45°	
7.	h. Patient Dose Measureme Primary collimator:  a. Manual or Motorized con b. Inherent filtration at 80kV c. Cu-prefilter 0.3 mm d. Collimator rotation e. Full field light locazier	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45° : 4 W High power LED.	
7.	h. Patient Dose Measureme Primary collimator:  a. Manual or Motorized con b. Inherent filtration at 80kV c. Cu-prefilter 0.3 mm d. Collimator rotation e. Full field light locazier	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45° : 4 W High power LED. ent chamber in the collimator housing to measures the dose	
7.	h. Patient Dose Measureme Primary collimator:  a. Manual or Motorized con b. Inherent filtration at 80kV c. Cu-prefilter 0.3 mm d. Collimator rotation e. Full field light locazier f. An integrated measurement	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45° : 4 W High power LED. ent chamber in the collimator housing to measures the dose mGy/cm²)	
	h. Patient Dose Measurement  Primary collimator:  a. Manual or Motorized continuous b. Inherent filtration at 80kV c. Cu-prefilter  0.3 mm  d. Collimator rotation  e. Full field light locazier  f. An integrated measurement area product in µGy/m2 (or	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45° : 4 W High power LED. ent chamber in the collimator housing to measures the dose mGy/cm²)	
	h. Patient Dose Measurement  Primary collimator:  a. Manual or Motorized conton b. Inherent filtration at 80kV c. Cu-prefilter  0.3 mm  d. Collimator rotation e. Full field light locazier f. An integrated measurement area product in µGy/m2 (or Ceiling mounted tube supposed to the collimator of the c	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45° : 4 W High power LED. ent chamber in the collimator housing to measures the dose mGy/cm²)  port:	
	h. Patient Dose Measurement Primary collimator:  a. Manual or Motorized continuous b. Inherent filtration at 80kV c. Cu-prefilter 0.3 mm d. Collimator rotation e. Full field light locazier f. An integrated measurement area product in µGy/m2 (or Ceiling mounted tube supplements). Transverse travel range	trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45° : 4 W High power LED. ent chamber in the collimator housing to measures the dose mGy/cm²)  port: : 345 cm or more : 220 cm or more	
	h. Patient Dose Measurement Primary collimator:  a. Manual or Motorized condition b. Inherent filtration at 80kV c. Cu-prefilter 0.3 mm d. Collimator rotation e. Full field light locazier f. An integrated measurement area product in µGy/m2 (or Ceiling mounted tube supplements at the collimator of the collimator rotation collimator rotation e. Full field light locazier f. An integrated measurement area product in µGy/m2 (or Ceiling mounted tube supplements at the collimator range b. Transverse travel range c. Vertical travel range	ent should be possible using DAP meter  trol pre-set via organ programs : 1 mm Al : Motorized & position able, 0.1 mm, 0.2 mm, : Up to max ± 45° : 4 W High power LED. ent chamber in the collimator housing to measures the dose mGy/cm²)  port: : 345 cm or more	

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Ser	Description	Technical specification	To be filled up by the principal / Manufacture				
no	Flat Detector for Table:						
9.	2. 35 cm v 43 cm or more Flat Panel Solid State wireless detector.						
	b. Material	: Amorphous silicon with CSI scirtillator					
	c. Resolution Matrix	: 2350 x 2865 approx or more.					
	d. Pixel size	: 148µm or less					
	e. DQE	: 70% at 0.05 lp/mm					
	f. Digitization Depth	: 16 bits					
	g. Data Transmission	: 2s preview, 5 s full image					
	h. Weight	: 3.5 kg or less					
	j. Max. Load Capacity patient.	: 300 kg with recumbent patient, 100 kg with standing					
	k. Battery type & Capacity to be	: Lithium-ion, rechargeable, exchangeable, Capacity mentioned					
	I. Charging Location	: Table Detector Tray or Bucky Stand Detector Tray.					
10.	Flat Detector for Bucky Sta	nd:					
	a 43 cm x 43 cm or more Fla	t Panel Solid State fixed detector.					
	b. Material	: Amorphous silicon with CsI scintillator					
	c. Resolution Matrix	: 2360 x 2860 approx.					
		: 148µm or less					
	d. Pixel size						
	e. DQE	: 65% at 0.05 lp/mm					
	f. Digitization Depth	: 16 bits					
	g. Data Transmission	: 3.5 s preview, 6 s full image					
11.	Chest Detector Stand:						
	a. Auto tracking facility of x-r	ay tube and detector during height adjustments.					
	b. Vertical Travel Range	: 30 cm to 170 cm or more					
	c. Detector Unit Tilt	: -20° to +90°					
10							
12.	Control System:  a. Complete system operation with control of generator, tube, and imaging system from						
	a single integrated console						
	b. The examination procedure is controlled via the selection of clinical protocols.						
	c. The generator parameters and collimator settings, including additional filtration as well as image processing parameters, are automatically set via the selected clinical						
	d. Manual positioning of the x-ray tube.						
	e. Automatic positioning of z-axis (SID) with motorized adjustment of ceiling support.						
	f. Automatic centering of the table detector to the x-ray tube when x-ray tube is						
	f. Automatic centering of the table detector to the x-ray tube when x-ray tube centered in the transverse axis.						
	g. Collision monitoring of z-axis of the tube.						
10							
13.	Digital Imaging System:  a. The entire control and communication of the radiography system including digital						
	image processing takes place from the imaging system. High resolution digital radiography system with DICOM network connection for image processing and image						
	b. Computer: Intel Xeon or equivalent microprocessor with speed 3.3 GHz, 16 GB or more RAM, SATA & SSD Hard Drive, USB 3.0 and inface cards.						
	c. Operating System : Windows 10 Enterprise 64 bit or equivalent.						
	d. Image storage : 15,000 RAD images.						
	e. Diagnostic Monitor: 23" tiltable multitouch full HD color monitor with maximum						
	brightness 400 cd/m <sup>2</sup>	D 3 of 3	<u>-l</u>				

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Ser no		Description			ī	echnical spe	ecification		To be filled up by the principal Manufacture
	f. Body								
	replaci								
	replacing as well as selection of generator and AEC parameters with patient size adapter.  g. Clinical protocol steps combined of multiple imaging parameters for particular body parts								
	and imaging exposure and postprocessing. Clinical protocol steps can be stored,								
	customized and arranged in clinical protocols using the advanced clinical protocol editor.								
	The system should automatically select the next clinical protocol step in the chosen clinical								
	protocol as each exam step is completed.								
	h. Sma								
	superb, consistent images with neural networks detecting the collimator edges extremely								
	efficiently, and adaptive noise cancelling removing image noise, which will also enable low								
	dose settings for all clinical tasks								
	j. Gridless acquisition of free exposures, especially Thorax using Al functionalities for superior contrast and easier handling								
	k. Rea	I time image of t	he patie	ent at the			elp of 3D Camera		
							lp of smart auton		
							table and up to 4		
							he patient during		
							be used to enab		
						errorm an exa	am with fewer ima	iges.	
14.		ser/ Digital Ima							
		olution		dpi or mo					
		t Size		μm or sm					
	c. Film		: 8" x	10", 10" >	x 12", 11"	x 14", 14" x 1	4" & 14" x 17"		
		oughput				hour or more			
		ply Magazine/Tr							
						" x 12", 11" x	14", 14" x 14" & 1	4" x 17")	*
		nting facility from						***************************************	
		OM Compatible		Dry imag	er for film	size 8" x 10"	to 14" x 17"		
15.		sories & Others		200	4.5		1 /		
		d glass				pb or equiva			
			er, Qty-	01 No (Br	and, Mod	el, Country o	f Origin and Manu	ıfacturer -	
	To be mentioned)								
		d sheet for door				/D			
	d. Voltage Stabilizer Compatible for x-ray Machine (Brand, Model, Capacity with backup								
	time, Country of Origin and Manufacturer - To be mentioned)								
	e. Online UPS for Workstation (Brand, Model, Capacity with backup time, Country of								
	Origin and Manufacturer - To be mentioned)								
	f. Equipment table and operator's chair								
	g. Thermal laser printer for report printing (Brand, Model, Country of Origin and								
16	Manufacturer - To be mentioned)  Complete POC/POM All Foreign & Legal supplied items to be listed consentable for full								
16.	<u>Complete BOQ/BOM.</u> All Foreign & Local supplied items to be listed separately for full range of operation of the equipment as per following table:								
	Ser	Name of		Brand	Model		Country of	Damada	-
	361	item	Qty	Dianu	Woder	Country of Origin	Country of Manufacturer	Remarks	
		TCTTT				or Origin	Manufacturer		
					L	L		l	
17.	Foreign Training								
	a. Operational Training : Not required								
	b. Repair/Maintenance Training : Not required								
18.	Local Training								
									1
	a. Operational Training : 02x Operator for 02 weeks.								
	b. Repair/Maintenance Training: 02x EM Tech for 02 weeks.								



Ser	Description	Technical specification	To be filled up by the principal / Manufacture
19.	Warranty Inspection	: 05 (Five) years from the date of issuance of Note (I/Note).	
20.	After sales service	: 10 (Ten) years from the date of installation	
21.	Certificate of quality	: FDA/CE/JIS Certificate must be submitted with offer.	
22.	Books and Publication		
	Following books and publifree of cost.  a. Operational manual – 03 of the cost		
23.	If any other feature/items no offered equipment to be me		

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