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ANX D TO

DGDP TENDER NUMBER 216.07.487.25

DATED: 20 NOVEMBER 2025

**DESCRIPTION OF TECHNICAL SPECIFICATION FOR 4K ENDOSCOPIC CAMERA SYSTEMS
COMPLETE SET FOR UROLOGY, QUANTITY-01, (DP-5)**

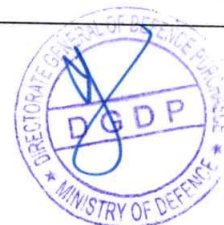
(Tenderer must fill up this format without changing its basic structure)

Ser no	Description	Technical specification	To be filled up by the Principal/ Manufacturer
(a)	(b)	(c)	(d)
1.	General Specification: General specifications are as under :		
	a. Nomenclature	4K Endoscopic Camera Systems Complete Set for Urology, PVMS-NIV, Qty-01	
	b. Brand	To be mentioned.	
	c. Model	To be mentioned. Model should be latest.	
	d. Name of Manufacturer's Complete Address with web site.	To be mentioned.	
	e. Name of Principal's Complete Address with web site.	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.	Function/Capability: To be used for Urological and general imaging and visualization in 4k with built in documentation system.		
3.	Technical Features/Facilities:		
	a. Camera System		
	4K Camera Controller BNDL Consisting of:		
	a. 4k Controller		
	b. USB flash memory 8 GB		
	c. HDMI / DVI-D cable, lockable, 3.0 m		
	d. Power cable		
	b. Special Features:		
	(i) Built in HD Image and Video Recording on External USB drive		
	(ii) Special Imaging Modes: HDR, Contrast I, Contrast II, etc for enhanced tissue differentiation		
	(iii) Max. Output Resolution 4K 3840 x 2160/60P (16:9) 4K 4096 x 2160/60P (17:9)		
	(iv) ICG functionality (optional)		
	(v) PDD functionality(optional)		
	(vi) 4k camera head, 3 chip, soakable, steam sterilizable, Gas/Plasma sterilizable with minimum 2 programmable buttons (4 fuctions) zoom lens		



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Ser no	Description	Technical specification	To be filled up by the Principal/ Manufacturer
	c. Light Source		
	i. Light source LED		
	ii. LED service life >30000hrs		
	iii. Color temp: 6500k (approx)		
	iv. Brightness: 1900lm (approx)		
	d. Monitor		
	i. 37 inch or Higher High quality 4K Medical Grade Monitor		
	ii. 4096 x 2160 pixels (17:9)		
	iii. LED background lighting		
	iv. Max. luminance 770 cd/m ² (approx)		
	e. High Flow Insufflator		
	i.. 40L/min or higher		
	ii. Heat function for gas heating		
	iii. EVAC function for Smoke evacuation		
	f. Cart		
	i.. Mobile with Basic Electronics		
	ii. Camera Head mounting bracket		
	iii. Light cable mounting bracket		
	iv. Footswitch tray		
	v. Monitor mounting bracket VESA 75 x 100		
4.	Technical specification:		
	a. 4K Camera Controller		
	i. Device properties		
	ii. Type of controls Touchscreen/membrane switch		
	iii. Max. video signal resolution 4096 x 2160 pixels		
	iv. White balance, color temperature range 2300 K to 7000 K		
	v. Digital zoom 1.5x max.		
	vi. Individually configurable profiles at least 5 profiles		
	vii. Brightness control Automatic shutter control + automatic gain control		
	viii. Image format of saved pictures / videos JPEG, TIFF (max. 1920 x 1200) / MPEG4 (max. 1920 x 1080/60P)		
	ix. ix). Operating mode Continuous operation		
	x. Power supply : Mains + frequency 100-240 VAC, 50/60 Hzxi.I. Video outputs 2x HDMI 4K, 2x HDMI HD, 2x 3G-HD-SDI		
	xi. PiP input 1x 3G-HD-SDI		
	xii. Remote output 2 x 3.5 mm jack, stereo		
	xiii. USB port (for external storage media) USB 2.0 (FAT32/NTFS formatting)		
	b. 4K 3 chip Camera Head		
	i. Sensor 3x 1/3" CMOS		
	ii. Operation 2 programmable head buttons with 4 functions (minimum)		
	iii. Thread for objective lens C-Mount		
	iv. Service Camera head cable and eyepiece snap-in coupling can be replaced on site		
	c. Light Source		
	i. Type and number of lamps 2x high-power LED		
	ii. Lamp service life 15,000 h (minimum)		
	iii. Brightness in Lumen 1,400 lm (approx.)		
	iv. Light output compared to xenon in W 300 W		
	v. Color temperature 8000 K (approx.)		



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Ser no	Description	Technical specification	To be filled up by the Principal/ Manufacturer					
	vi. Brightness control 0 - 100%							
	vii. Operating mode Continuous operation							
	viii. Supported light cables Wolf/Storz/ Olympus							
	ix. Power supply: Mains + frequency 100-240 VAC, 50/60 Hz							
	D. Insufflator							
	i. Device properties							
	ii. Operating mode Continuous operation							
	iii. Power supply: Mains + frequency 100–127/220–240 V~, 50/60 Hz							
	iv. Relevant application parameters Insufflation medium Medical-grade CO2 (degree of purity > 99.5%) Intraabdominal pressure 3 mmHg to 25 mmHg (± 2 mmHg) selectable in increments of 1 mmHg							
	v. Gas flow rate primary filling 1 l/min (± 50%)							
	vi. Gas flow rate, High Flow 2 l/min to 45 l/min (± 20%) selectable in increments of 1 l/min							
	vii. Consumption indicator 0 l to 9,999 l (± 20%)							
	E . 4k Monitor							
	i. Screen diagonal 37" inch or higher							
	ii. Resolution / aspect ratio 3840 x 2160 pixels / 16:9							
	iii. Background lighting LED							
	iv. Panel technology IPS							
	v. Display colors 1,073,000,000							
		vi. Contrast 1400 : 1						
vii. Max. luminance 620 cd/m² (approx.)								
viii. Angle of view 178° H / 178° V								
ix. VESA mount								
x. VESA 200 x 200								
xi. VESA 300 x 300								
xii. Power supply: Mains + frequency 100 - 240 VAC, 50/60 Hz								
5.	Standard accessories: 4K System Should consist of :							
	a. 4K Camera Controller bundle							
	b. 4K Camera Head 3-Chip, cable length 3.0 m							
	c. Zoom Lens							
	d. LED 2.2 bundle							
	e. Fusion Fiber Light Cable bundle, Ø 5.0 mm							
	f. LCD Monitor 37inch or higher (4K Medical Grade)							
	g. Keyboard							
	h. High flow Insufflator system							
	j. Mobile Cart with electronics							
	m. Locally Supplied Component: (If any) External camera setup to record open surgery							
	6.	Optional accessories (if any):To be mentioned						
7.	Power Supply	Auto stabilized 220V AC ±105, 50/60Hz						
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	Model	Country of Origin	Country of Manufacturer	Remarks

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Ser no	Description	Technical specification	To be filled up by the Principal/Manufacturer
9.	Local Training		
	a. Operational Training	02x Operator for 01 week.	
	b. Repair/Maintenance Training	02x EM Tech for 01 week.	
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.		

