

**BIDDER MUST HAVE TO SUBMITTED PART-III TECH BID PHYSICALLY IN TENDER ALONG WITH SIGN AND STAMPED. FAILING IN WHICH, WILL BE STRAIGHTWAY REJECTED.**

(INST) (PART-III) PART III: TECHNICAL BID			
NAME OF EQUIPMENT : <b>4K CAMERA WITH 4K MONITOR AND 30° LAPROSCOPE WITH FIBER OPTIC LIGHT SOURCE ,CO2 INSUFFLATOR</b>			TENDER NO: <b>2526 RS-18</b>
DEPARTMENT: <b>GYNEACOLOGY DEPARTMENT</b>			
MANUFACTURER :		BRAND :	MODEL :
BIDDER NAME :			EMD : <b>2,55,000/-</b>
QTY: <b>1 NOS.</b>	TENDER FEE: <b>2,400/-</b>	TOTAL ESTIMATED VALUE FOR 1 UNIT (RS.): <b>85,00,000/-</b>	
	REQUIRED SPECIFICATION	SPECIFICATIONS AVAILABLE IN OFFERED MODEL	MENTION REMARK, IF ANY DEVIATION
<b>A.</b>	<b>CAMERA CONTROL &amp; LIGHT SOURCE UNIT :- Qty1</b>		
1.	System must have inbuilt 4K UHD Camera Console, LED Light source & wifi enabled image management system with recording via USB port along with recording in APP through in built wifi .		
2.	Camera resolution must be 8MP-3840*2160 (native) 4K resolution		
3.	Shutter speed should be 1/60 second through 1/10,000 second shutter speed (60 Hz)		
4.	It should have 4K Series digital interface (4K-SDI): Four serial digital interface (HD- SDI) with 4:2:2 component digital video output on BNC connector		
5.	It should have HD Series digital interface (HD-SDI): One serial digital interface (HD- SDI) with 4:2:2 component digital video output on BNC connector		
6.	USB Storage must accommodate 8 GB or more sized storage device (32 GB recommended), Class 10/Huss Speed Class 1//UHS (Ultra High Speed). FAT32 or NTFS formatted		

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7.	USB Output Two USB Type A connectors; provides USB-compatible connection to flash or hard drives.		
8.	Standby button option – should have button which will Turns the control unit on and off. The rear power switch must be switched to the (I) position in order to provide mains power to the system.		
9.	Standby Illumination option – should haven Standby Illumination button to put light source is in standby mode and the light source is off. When illuminated, the button turns standby off and turns the light source on.		
10.	Multiple white balance option - White balance can be done by console head and App remote access		
11.	LED Light Source with life span of 30K hours		
12.	LED Light Source with control options on Camera head and remote access / App remote access		
13.	IMS console must have built in wifi for connectivity of app and printer		
14.	Video Accessory Controls Two mini-phono connectors (3.5 mm)		
15.	Fuse Type F10AH250V; V and I rating: 250V, 10A;		
16.	Temperature: Transport and Storage: -20– +140° F (-29– +60 °C); Use: +50– 104° F(+10-40°C)		
17.	Humidity : Transport and Storage: 15–85% (no condensation allowed); Use: 30%– 75%		
18.	Atmospheric pressure : Transport and Storage: 60–106 kPa; Use: 60–106 kPa		
<b>B.</b>	<b>4K CAMERA HEAD &amp; COUPLER UNIT:- Qty-1</b>		
1.	Altitude : 3000 meters maximum		
2.	Camera head should have 4K, 3 chip MOS video sensor technology		
3.	Camera head should provide 6 different custom button setting on 3 camera		

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	head button		
4.	Should have Ergonomic camera head design to help in reducing hand fatigue		
5.	Camera Head should be autoclavable and soakable		
6.	Camera head to come with zoom lens, focal length f = 15 - 35mm		
7.	Dual Vascularity Imaging Mode for Malignant tissue detection		
8.	Hi Res mode filter for ultimate clarity		
9.	Built-in FHD USB Recording to be triggered from camera head and console		
10.	Digital & Optical zoom as standard option		
11.	Ethernet output for transmitting recorded images		
12.	9 Surgery Selection modes including endoscope size specific selection modes		
13.	4 buttons on Camera head for 8 Functions -Surgery mode, Automatic White Balance, Menu for adjusting image parameters, Digital zoom, Vimage on /off, Hi-Res on / off, Recording and Still Image Capture		
14.	Display on control unit to show selected surgery mode		
15.	Red & Blue adjustments		
16.	Outputs HDMI 2.0 x 1, 3G-SDI x 2		
17.	RS 232 port for software upgradation		
18.	ISO 13485 and CE certification, Class I		
19.	The unit shall operate on a power supply of 230V + 10%		
20.	Following items to come with the unit: Mains cord (length 300cm), HDMI 2.0 cable, 64 GB USB Flash drive		
21.	Camera Control Function – should be able to change camera setting by console, Camera Head & App		

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22.	Camera head cable should be 12 feet (366 cm) long		
23.	Camera head weight 1.5 lbs (0.7 Kg)		
24.	Must have transport shock and vibration compliance with ISTA 3A		
25.	Video Field Rate 60 Hz		
26.	Must have c-mount autoclavable coupler with 19.5 mm coupler length opt for 4mm scopes		
27.	Must have digital zoom		
28.	Video Data Transmission High-speed, low-voltage differential serial (LVDS), digital transmission via 12-foot camera cable		
29.	Video Output Format Full UHD 2160p, 100% compatible with SMPTE ST-425-5 when used with the CCU		
30.	Temperature: Transport and Storage: -20– +140° F (-29– +60 °C); Use: +50– 77° F(+10–25 °C)		
31.	Humidity : Transport and Storage: 15–85%; Use: 30%–75%		
32.	Atmospheric pressure : Transport and Storage: 70–106 kPa; Use: 70–106 kPa		
33.	Altitude : 3000 meters maximum		
<b>C.</b>	<b>4K MONITOR UNIT: Qty -1</b>		
1.	Monitor should have resolution 4096 x 2160 pixels		
2.	Monitor should support picture size (Diagonal) 789.06 mm (31 1/8 inches) 1387.8 mm (54 3/4 inches)		
3.	Monitor should support effective picture size 698.0 x 368.1 mm (27 1/2 x 14 1/2 inches)		
4.	Monitor should support pixel pitch 0.1704 x 0.1704 mm		
5.	Monitor should have aspect ratio of 17:09		

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6.	Monitor should have Pixel Efficiency of 0.9999		
7.	Monitor should have LED backlight; LCD with IPS Panel Technology		
8.	Monitor should have Luminance (Panel Specification) of 770 cd/m2 (typical)		
9.	Monitor should have Contrast Ratio of 1450 : 1		
10.	Monitor should support Approx.1.073 billion colors		
11.	Monitor should have Viewing Angle (Panel Specification) of 89°/89°/89°/89° (typical)		
12.	Monitor should have Gamma 1.8, 2.0, 2.2, 2.4, 2.6, DICOM, Highlight		
13.	Monitor should have HDMI (x1) (HDCP 1.4 correspondence) Input		
14.	Monitor should have Input DVI-D (x1) (HDCP 1.4 correspondence) TMDS single link		
15.	Monitor should have SDI Input: 3G/HD/SD-SDI and BNC (x5)		
16.	Monitor should have DC Input XLR-type 3-pin (male) (x1), 26 V DC (output impedance 0.005 ohms or less)		
17.	Monitor should have Serial Remote LAN D-sub 9-pin (RS-232C) (x1), RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX)		
18.	Monitor should have DVI-D (x1) when HDCP disabling Output		
19.	Monitor should have SDI Output BNC (x5)		
20.	Monitor should have DC 5 V/12 V Output 5 V Output (x1), 8 W; 12 V Output (x1) 20 W max		
<b>D.</b>	<b>LED Light Source and Fiber Optic Cable:</b>		
1.	LED Light Source with Turret for Multi brand cable adaptability		
2.	Intensity equivalent to 300 watts Xenon		
3.	Unique small scope mode so that scopes 4 mm and below so scopes don't get		

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	excessively heated		
4.	LED hrs consumed meter		
5.	Safety features such as Temperature display, High temperature cut off, Fan status		
6.	Stand by button		
7.	Fiber Optic Cable with 4.8mm diameter,300 cm length, metal braided		
8.	ISO 13485 and CE certification, Class I		
9.	Following items to come with the unit: Mains cord (length 300cm)		
10.	Monitor Power Consumption: LCD monitor: Approx. 180 W (max.)		
11.	Monitor Dimensions: 753.8 x 456.4 x 69.3 mm (Slimmest D 28mm) (29 3/4 x 18 x 2 3/4 inches)		
12.	Monitor Mass: 11.8 kg (Approx. 26 lb 0.23 oz)		
13.	Monitor should be supplied with below accessories: <ul style="list-style-type: none"> <li>• AC adaptor: AC-300MD (1)</li> <li>• AC power cord (1)</li> <li>• Instructions for Use (CD-ROM) (1)</li> <li>• Abridged edition of Instructions for Use (1)</li> <li>• AC power plug holder (2)</li> <li>• Instructions for Use of the AC adaptor (1)</li> <li>• Service Contact List (1)</li> <li>• M4 x 12 mm Screw (4)</li> </ul>		
14.	Storage/Transport Humidity: 0% - 90%		
15.	Operating Humidity: 30% to 85% (no condensation)		
16.	Operating/Storage/Transport Pressure: 700 hPa to 1060 hPa		

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17.	Storage/Transport Temperature: -20°C to +60°C (-4°F to +140°F)		
18.	Operating Temperature: 0°C to 40°C (32°F to 104°F) (Recommended: 20°C to 30°C (68°F to 86°F))		
19.	High luminance		
20.	ANSI/AAMI ES60601 certified		
21.	ISO 13485 and CE certification, Class I		
<b>E.</b>	<b>App Specification – In Built</b>		
1.	App must be able to do below listed functions		
2.	Create new patient		
3.	Create new procedure, view list of procedure		
4.	Make necessary changes to camera head buttons		
5.	Click picture and record video remotely		
6.	Create annotations – Voice, Text & graphical		
7.	Applications must be able to control camera console and camera head programming		
8.	Print images from app		
9.	Create PDF of surgical pictures		
<b>F.</b>	<b>ENDOSCOPE 30* :- Qty -1</b>		
1.	Camer-3 chip HD camera with 30° Laproscope		
2.	Image sensor resolution FULL HD		
3.	Direction of view 30°		
4.	Outer diameter 10.3mm.		
5.	Working length 320mm		

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6.	Fluorescence imaging (NIR/ICG) NO		
7.	Connection D3-Line		
8.	Weight 420g		
9.	Cable length 300 cm		
10.	Cable routing straight		
11.	Frame rate 50/60 Hz		
<b>G.</b>	<b>ENDOSCOPIC TROLLEY</b>		
1.	Compatible monitor mount matching with 32"/ 43"/55" monitors		
2.	Monitor should be on mount		
3.	One extra monitor mount to control recording of 4K video		
4.	Monitor center height should be 5'6" from floor level and should be adjustable		
5.	3 minimum shelves		
6.	Drawer at the bottom		
7.	Isolation Transformer to match the rating of all above equipment for extra safety against extra voltage and current leakages.		
8.	Holder for camera head		
9.	Trolley should be from same make as camera		