

**AIIMS Rishikesh Tender Enquiry No. F.No. 24/Laparoscopy System/Surgical Oncology/555/2020-RISH(ADMN)**

**Ammendments in Technical Specifications  
Laparoscopy System**

(3D HD Endovision System For Laparoscopy And Endoscopy With Accessories)

SL. NO.	LAPAROSCOPY SYSTEM 3D HD ENDOVISION SYSTEM FOR LAPAROSCOPY AND ENDOSCOPY WITH ACCESSORIES	As ammended
1	<b>3D CAMERA SYSTEM</b>	
	Integrated video laparoscope, 10 mm.30 degree direction of	
	Two distal Full HD image sensors with depth of focus optimized for stereoscopic endoscopy	
	Slender and light design-weight should not be more than 450 gm for optima; ergonomics, integrated in a fine case.	
	Sterilization options: Plasma sterilization and EtO	
	Should have HD-SDI or 3G SDI or SDI Digital for simultaneous signal transmission to standard 20 monitors	
	Easy switching between 2D and 3D modes	
	Should have input Keyboard/touch screen for title generator	
1A	<b>1A. Three Chip FULL High definition Camera System for ICG/IR Fluorescence guided imaging by Near Infra Red (NIR) light and Optical Contrast Differentiation System &amp; it Should have special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa</b>	
	The system should be truly Digital HD TV endoscopic video camera. The system should have the maximum resolution of 1920 x 1080 pixels, progressive scan and the consistent use of 16:10 formats for input & output to guarantee genuine HDTV.	The system should be truly Digital HD TV endoscopic video camera. The system should have the maximum resolution of 1920 x 1080 pixels, progressive scan and the
	<b>Camera head should be compatible for ICG/IR HD fluorescence guided Imaging by Near Infra Red &amp; Optical Contrast Differentiation System and it Should have special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early</b>	
	<b>ICG HD system should be easy to handle and can be used for both white light &amp; near infra-red (NIR) light and it should have special filter light for observation of capillary vessel and fine patterns in the superficial layer of mucosa</b>	
	The system should have facility of optical & digital zoom lens to enhance the quality of image size and cross specialty usage of the camera system, regardless of the telescope used.	
	<b>USB port For Capturing Full HD Videos or HD Stills in External USB drive.</b>	
	The individual components (Light source, camera system, telescopes and fiber optic cable) are perfectly aligned to ICG HD system and Optical Contrast Differentiation System / special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of	



	Easily upgradable to flexible Video Scopes.	Should be ready for Flexible Videoscope like Laryngoscopes, Cholelithoscopes etc.
	<b>Technical Specifications:</b>	
	Camera image sensor: 3x1/3" or less Size CCD/CMOS Chop	
	Pixels: 1920 x 1080	
	AGC: Microprocessor controlled	
	Lens: Integrated Optical Zoom, F = 15-31 mm	
	Control buttons on camera Head: 3(2 of them freely	
	Video output: 1 No DVO-D output, 1 x 3G-SDI/HDSI output, camera input for communication, 1 or more USB connection.	
	Offered Mode; should be US FDA or European CE (with four digit notified body number) Certified.	
2	<b>Full High Definition Medical Grade Monitor capable of displaying 2D and 3D Image. - 2 Nos.</b>	
	_ Medical grade 3D LCD panel 31.5 inch or more (16:9 aspect	
	_ High Definition 1920*1080p pixel resolution.	
	<b>_ Should supply clip on type glasses also for selectable wearing surgeons - 10 nos.</b>	
	_ Various signal inputs: DVI-D for 3D signal DVI-D for 2D signal in HD, HD-SDI for 2D signal in HD, S-Video for 2D signal in	
	_ Should be supplied with 20 pieces of light, passive circularly polarized 3D glasses.	
	_ Viewing angle-Horizontal: 178 degrees, Vertical: 178 degrees.	
	<b>Should be US FDA or European CE (with four digit notified body number) certified</b>	
	Parallel live display of visualization modes besides white light mode (picture-in-picture)	
3	Xenon Light Source with ICG/IR HD fluorescence mode & compatible light source/special filter light for observation of capillary vessels and fine patterns in the superficial layer of	
	. Color Temperatures' 5500K-600K	
	. Light Outlets - 1	
	Light intensity Adjustment: Continuously adjustable either via a membrane keyboard or light source.	
	Facility of switching between white light and Near Infra Red light (NIR) and to change contrast enhancement for ICG/IR HD/OPTICAL Contrast Differentiation System and compatible light source/special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa for	
	To be provided with Spare Lamp - 5 Nos.	To be provided with Spare Lamp - 1 (One) Secondary Light source with lamp life of 7500 Hours for normal white light imaging Should be quoted &
	Product certification - Offered Model should be US FDA or European CE (with four digit notified body number) certified.	
4	Fiber optic cable - 2 Nos.	Fiber optic cable - 6 (six in number)
	High light transmission.	
	Extremely heat resistance	
	Should be supplied with Diameter 4.24mm-5mm Length 250 cm	
5	Rigid telescope	





	10mm, 30 deg & 0 deg ICG/IR type - 1 no. each	
	Straight forward telescope (HD) 30 degree & 0 deg. Enlarged view, 10mm, length 31-33cm. Autoclavable, white light, fiber optic light transmission incorporated.	
6	<b>CO2 ELECTRONIC INSUFFLATOR 40L/MIN OR more</b>	CO2 ELECTRONIC INSUFFLATOR 45 L/MIN OR more with gas heating facility abd should
	High flow mode with flow performance 40.1/min or more	
	<b>Easy and intuitive use with user friendly color touch screen/feather touch button for easy and precise setting of set values for pressure and flow and of insufflations mode, as well as for clear display of corresponding set values</b>	
	Optical and acoustic alarm signals in the event of patient	
	<b>Applicable for use in Laparoscopy and Endoscopic</b>	
	<b>Technical Specifications:-</b>	
	Gas flow: 0 to 40 L/min or more.	
	Pressure: 0-25 mmHg (400Pa) or more.	
	High flow mode (40L 1/more)	
	Sensitive mode pressure 10-15 mmHg or more & flow 10.1/min or more for sensitive application.	
	Electronic control and color screen.	
	<b>Following data are displayed on screen:-</b>	
	_ Insufflations mode	
	_ Current patient pressure.	
	_ Set value gas flow (0-40.1/min or more.	
	_ Current gas flow.	
	_ Gas consumption (0-999 1)	
	The offered Model should be US FDA or European CE (with four digit notified body number) certified silicon CO2 gas tube -	
7	<b>IMAGE/VIDEO RECORDING AND DATA ARCHIVING SYSTEM 3D SIGNALS</b>	
	State of the art user friendly Medical grade system (certified to be used in OT) Should be offered with following features.	
	<b>Use should have full control of the system from the sterile field via camera head buttons or through touch screen</b>	
	Parallel (synchronic or independent) recording of two image	
	Still images and videos (optional with audio) in 2D Full HD or 4K	
	Intelligent, adaptive storage management.	
	Storage on internal memory 2TB or (500 GB internal memory with 2TB external HDD)	Storage on internal memory 2TB with external HDD of 4 TB
	Automatic storage in the background to reduce the time between the interventions. Easy management and overview of open/automatic save processes.	
	<b>The recorder should be DICOM compliant</b>	
	Infra and postoperative printing via optional printer (local or network). Infra and postoperative printing via optional printer (local or network). Compatible printer to be quoted separately	Deleted
	Medical grade 3D LCD panel 32 inch (16:9 aspect ratio)	Deleted
	High Definition 1920*1080p pixel resolution	Deleted
	Should supply clip on type glasses also for selectable wearing	Deleted



	Various signal inputs: DVI-D for 3D signal DVI-D for 2D signal in HD, HD-SDI for 2D signal in HD. S-Video for 2D signal in HD.	Deleted
	Should be supplied with 20 pieces of light, passive circularly polarized 3D glasses.	Deleted
	Viewing angle- Horizontal: 178 degrees. Vertical: 178 degrees	Deleted
	<b>Should be US FDA or European CE (with four digit notified body number) certified</b>	
	Playback of 2D and 3D content on separate monitor.	
	Integrated security software as a protection against malware, independent from security patches of the operating system and it is only guidance, optimized for touch screen control.	
	Scalable range of functions.	
	Controllable via 7" or more inbuilt touch screen.	
	Input Voltage: 100-240 VAC.	
	Input Frequency: 50-60Hz.	
	The offered Model should be US FDA or European CE (with four digit notified body number) certified (except printer).	
8	<b>ENDOSCOPY VIDEO TROLLEY - 2 Nos.</b>	
	Equipment Cart, rides on 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributors with 6 sockets, grounding plugs. Should have central monitor holder to mount monitor with height adjustable, swiveling and tilting, swivel range approx. 360 deg., loading capacity max. 18Kg with monitor mount. Cart should be	
	— Isolation transformer	
	— CO2 cylinder holder	
	— Monitor holding arms (lateral)	
	Trolleys should be from same principal manufacturer	
9	Telescope 5 mm, 30 degree, 5mm - 0 deg, 10mm - 30 deg, 10mm-0 deg: 1 no. each	Telescope 5 mm, 30 degree, 5mm - 0 deg, 10mm - 30 deg, 10mm - 0 deg: 2 (two) no. each, along with sterilization tray for
	— Completely distortion free	
	— Quick lock for attachment of video adaptors	
	— Large field of view and depth of focus	
	— Autoclavable	

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02/03/2020  
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