



Running Contract Details	
Equipment Name	4K Imaging System for Laproscopy/Endoscopy
Running Contract Valid Till	24-10-2025
Tender Ref No	KMSCL/EP/T501(R)/1651D/2023
Tendered Quantity	10
Supplier Name	M/s Lakshmi Surgicals
GST No	32AACFL2603A1ZB
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
2nd Floor 12/307-C1 KSIE Building CIC Freight Station ICTT Road Anavathil Jn. Udyogamandal Eloor Ernakulam - 683501	Contact Person	Mr. Viji Vijayan
	Phone	0484-2988006
	Mobile No	99466 02090
	Email	lakshmisurgicals2005@gmail.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	4K Video Processor <i>Model & Make : IMAGE1 S 4U-LINK, IMAGE1 S CONNECT II/ Karl Storz</i>	1834781.43 Incl.GST :18%	128434.7	1963216.13
2	4K Camera Head <i>Model & Make : IMAGE1 S 4U RUBINA, OPAL1 NIR/ICG/ Karl Storz</i>	1810637.22 Incl.GST :18%	126744.61	1937381.83
3	55" 4K/3D Monitor <i>Model & Make : Karl Storz</i>	3144650.11 Incl.GST :28%	202928.2	3347578.31
4	OR1 Cart for Monitor 42 - 64", Set <i>Model & Make : Karl Storz</i>	99129.11 Incl.GST :18%	6939.04	106068.15
5	Signal Converter Set 12G-SDI - 4x3G-SD <i>Model & Make : Karl Storz</i>	173422.28 Incl.GST :18%	12139.56	185561.84
6	Power LED Rubina, OPAL1 NIR/ICG <i>Model & Make : Karl Storz</i>	886845.01 Incl.GST :12%	65404.82	952249.83
7	Fiber Optic Light Cable, 300cm, Å~4.8mm <i>Model & Make : Karl Storz</i>	48981.76 Incl.GST :18%	3428.72	52410.48

Item-wise Price Details							
8	4K Video recorder <i>Model & Make : Karl Storz</i>			1479130 Incl.GST :18%	103539.1	1582669.1	
9	ENDOFLATORÂ® 40 <i>Model & Make : Karl Storz</i>			648298.39 Incl.GST :12%	47812.01	696110.4	
10	Insufflation Tube <i>Model & Make : Karl Storz</i>			4533.2 Incl.GST :12%	334.32	4867.52	
11	Filter, Insufflation <i>Model & Make : Karl Storz</i>			17796.3 Incl.GST :18%	1245.74	19042.04	
12	Insufflators In-Line Filter <i>Model & Make : Karl Storz</i>			18076.96 Incl.GST :18%	1265.39	19342.35	
13	CO2 High Pressure Tube, 102 cm <i>Model & Make : Karl Storz</i>			19221.88 Incl.GST :18%	1345.53	20567.41	
14	10mm 0 degree 2D 4K Telescope <i>Model & Make : Karl Storz</i>			397182.26 Incl.GST :12%	29292.19	426474.45	
15	10mm 30 degree 2D 4K Telescope <i>Model & Make : Karl Storz</i>			380591.23 Incl.GST :12%	28068.6	408659.83	
16	5mm 0 degree 2D 4K Telescope <i>Model & Make : Karl Storz</i>			397182.26 Incl.GST :12%	29292.19	426474.45	
17	5mm 30 degree 2D 4K Telescope <i>Model & Make : Karl Storz</i>			410764.51 Incl.GST :12%	30293.88	441058.39	
18	Cart/Trolley <i>Model & Make : Karl Storz</i>			193572.01 Incl.GST :18%	13550.04	207122.05	
19	S-PILOTâ,,ç Set, incl. footswitch <i>Model & Make : Karl Storz</i>			305267.02 Incl.GST :12%	22513.44	327780.46	
20	Tubing Set, Suction LAP, S-PILOT <i>Model & Make : Karl Storz</i>			38828.42 Incl.GST :12%	2863.6	41692.02	
21	S-PILOTâ,,ç Connecting Cable, 3.5mm, 300c <i>Model & Make : Karl Storz</i>			3271.76 Incl.GST :18%	229.02	3500.78	
22	58 inch 4K 2D/3D Monitor (Not taken for evaluation) <i>Model & Make : Karl Storz</i>			1836465 Incl.GST :28%	118509.38	1954974.38	
23	32 inch 4K 2D Monitor (Not taken for evaluation) <i>Model & Make : Karl Storz</i>			2110237.44 Incl.GST :28%	136176.26	2246413.7	
24	Full HD Video Recorder (Not taken for evaluation) <i>Model & Make : Karl Storz</i>			1479130 Incl.GST :18%	103539.1	1582669.1	
				17737995.56	1215889.45	18953885.01	
Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
4K Video Processor							
Labour	2,66,175.00	2,92,792.50	3,22,071.75	3,54,278.92	3,89,706.81	4,28,677.50	4,71,545.24
Comprehensive	7,60,280.00	8,36,308.00	9,19,939.00	10,11,933.00	11,13,126.00	12,24,439.00	13,46,882.00

Other terms & conditions

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).
2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

Technical Specification

Equipment :4K Video Processor

Equipment: 4 K Imaging System for Laparoscopy/ Endoscopy

Complete Visualization Tower for Advanced laparoscopic / Endoscopic Procedures

I. Processor

1. Endoscopic video camera in 4k resolution (3840 x 2160) with NIR/ICG feature or 4K camera system along with ICG
2. Slot for video scopes (Digital scopes / Chip on tip) like 3D laparoscope, video Cholescope and GI scopes and 3D 4K ICG.
3. System for 55 inch or more 2D/ 3D medical Grade Monitors IN 4K resolution
4. System should have Facility for Optical Contrast Differentiation System, and it have special filter for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions.
5. System should be capable of near infrared fluorescence imaging (ICG application) with below features:
 - a. **Overlay**: White light image with super imposed display of NIR /ICG fluorescence. Possible to select the preferred color for NIR/ICG imaging : Either blue or green.
 - b. **Monochromatic**: NIR / ICG Fluorescence signal in white. Background in black for maximum contrast.
 - c. **Intensity Map**: White light Image with superimposed display of NIR/ ICG fluorescence. NIR/ ICG signal display will appear in different colors depending on the strength of the detected NIR signal.
6. Picture in Picture of visualization modes with standard and optical contrast differentiation.
7. Recorder with 4K Full HD and 4K Stills with 2TB memory capacity shall be provided. Rate to be quoted separately in BOQ.
8. Automatic adjustment of light intensity of light source and controlled from Camera head
9. Outputs: All compatible outputs should be there (12GSDI, D.P, 4*3G SDI) for 4K resolution and DVI for HD resolution & HDMI.

II. 55 inch or more 2D/ 3D Monitor

1. Should provide 4K-3D medical grade 55 inch or more UHD LED backlit monitor
2. Should have 16.9 aspect Ratios
3. Should provide wide color gamut BT2020
4. Should be approved by BIS
5. Should have multi image display format

6. Should have various input / output terminals, including 3G/ HD/ SD SDI, DVI-D, BNC (x5) / HDMI / 12GSDI
7. Monitor should preferably run on AC (without DC adapter) 100V-240 V, 50/60Hz

III. LED / Xenon Light Source (Laser Free) with Fiber Optic Cable

1. Should have Lumen >2000
2. Lamp life of minimum 30,000 hrs or If Xenon the spare lamps should be provided equivalent to at least 10000 hrs capacity (same OEM)
3. 4.8 mm Fiber Optic Cables and 300 cm Long
4. Should have touch display which provides an intuitive & user friendly interface that directly displays relevant data.
5. Lamp type: High- performance LEDs, white light LED and near infrared LED, which are active individually or simultaneously / 300 – Watt Xenon Lamp
6. Certified to: - IEC 601-1 & UL 544 CE According to MOD, protection class 1/CF.

IV. 4K Camera Head

1. Pixels: 3840 X 2160 Pixels
2. AGC : Microprocessor Controlled
3. Lens: Integrated Zoom Lens f =19 mm or more
4. Color Space : BT.2020 emulation
5. Control Buttons : 3(2 or more of them freely programmable)
6. High sensitivity and less noise for clear image / auto /manual focus & electronic zoom Function
7. ETO, sterrad or Immersible sterilisable.
8. Camera head should be able to perform both white and Near Infrared application.

V. TELESCOPES FOR 2d 4K/ UHD

1. Telescopes with the 4K system should be quoted with Dimensions as below for White light and Near Infrared application /ICG.
 - a. 10 mm 0 Degree and 30 Degree with 300cm or more working length – Each.
 - b. 5 mm 0 degree and 30 Degree with 290 cm or more working length.

VI. High Flow – Insufflater (40-50 ltr /minute)

1. Innovative Sensitive Mode for sensitive areas such as paediatric application with safety limits in the pressure up to maximum 15 mmhg and flow ranges up to maximum 15 l/min
2. High Flow mode with flow performance up to 40 l/min or more
3. Precise setting of set values for pressure and flow and of insufflation mode, as well as for clear display of corresponding set values and actual values.
4. Optical and acoustic alarm signals in the event of patient overpressure.
5. Fully automatic electronically controlled gas refill
6. Safety system: Constant monitoring of intra –abdominal pressure. Any overpressure is reduced immediately.

VII. System should be provided with smoke evacuation system to eliminate carcinogenic smoke and make the field smoke free when using cautery.

VIII. Equipment cart from same manufacturer should be quoted for all the above items.

IX. Should have safety certificate from a competent authority CE issued by a notified body registered in European Commission / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.

X. All the above items should be from same manufacturer to ensure full system compatibility & synchrony except recorder.

Note:

1. If CDSCO (Central Drugs Standard Control Organization) certification is required for the import and marketing of the equipment, then the same shall be submitted along with the technical bid
2. Warranty exclusions if any shall be discussed at the time of prebid meeting else the tender condition as per clause 6.31.20 shall prevail

