



Notice Inviting e-Tender

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Procurement of 1 (one) Laparoscopic Instruments for the Dept of Urology, Medical College & Hospital, Kolkata
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-444/2023

Dated-31.07.2023

2nd call bid reference no. WBMSCL/NIT-324/2023 Dated-23.06.2023

Amendment-I

TECHNICAL SPECIFICATION

Sl. No.	Description	Specification	Quantity
1	Forward-Oblique High Definition Telescope 30°, enlarged view (Diameter 10 mm)	Diameter 10 mm, length 30cm Two 33cm, Autoclavable. Fiber optic light transmission incorporate Sapphire tip, Laser welded joints, Glasscone for longer life of fibers, Brilliant and high contrast even around the edges.	Two
2	Forward-Oblique High Definition Telescope 30°, enlarged view (diameter 5 mm)	Diameter 5 mm, length 30 cm-33cm, Autoclavable, Fiber optic light transmission incorporated Sapphire tip, Laser welded joints, Glasscone for longer life of fibers, Brilliant and high contrast even around the edges.	Two
3	Forward High Definition Telescope 0°, enlarged view (diameter 10 mm,)	Diameter 10 mm, length 30-33cm, Autoclavable, Fiber optic light transmission incorporated Sapphire tip, Laser welded joints, Glasscone for longer life of fibers, Brilliant and high contrast even around the edges.	Two

Sl. No.	Description	Specification	Quantity
4	Forward High Definition Telescope 0°, enlarged view (diameter 5 mm)	Diameter 5 mm, length 30-33cm, Autoclavable, Fiber optic light transmission incorporated Sapphire tip, Laser welded joints, Glasscone for longer life of fibers, Brilliant and high contrast even around the edges.	Two
5	Veress Pnemoperitonium Needle	Spring loaded blunt stylet. 2m.m. Dia 120 m.m. and 150 m.m length	Four (2 each)
6	Trocar with canula (11 mm)	Size 11mm, Pyramid tip,adjustable cannula with stop cock for insufflations. Made up of stainless steel, with multifunction valve, autoclavable	Five
7	Trocar with canula (12.5mm)	Size 12.5mm, Pyramid tip, and adjustable cannula with stop cock for insufflations. Made up of stainless steel, with multifunction valve, autoclavable	Five
8	Trocar with canula (5mm)	Size 5mm, Pyramid tip,adjustable cannula with stop cock for insufflations.Made up of stainless steel,with multifunction autoclavable	Five
9	Trocar with blunt , Obturator (round tip) 11mm with stop cock	Size 11 mm, BLUNT tip adjustable cannula with stop cock for insufflations.Made up of stainless steel, with multifunction valve, autoclavable	FOUR
10	Double Reducer	13/10 mm and 13/5 mm	Two
11	Reducer	11/5 mm	Two
12	Laparoscopic Grasping Forceps	Rotating,with connector pin for unipolar coagulation, size 5mm, length 30-36 cm, "Tiger-jaw", 2 x 4 teeth, single action jaws, consisting of: Plastic Handle, with ratchet,Outer Tube, insulated,Forceps Insert	Four
13	Laparoscopic Dissecting Forceps	Rotating, right angled, size 10mm length 30-36 cm,Double action jaws, consisting of: Metal Handle, with hemostat style ratchet, Outer Tube, insert, ForcepsInsert	Four
14	Laparoscopic Dissecting and Grasping Forceps Forceps	Rotating, size 10 mm, length 30-36 cm atraumatic, double action jaws, length of jaws 40 mm, for organs, consisting of: Metal Handle, without ratchet, Outer Tube, insulated, Forceps Insert	Four

Sl. No.	Description	Specification	Quantity
15	Laparoscopic Scissors, rotating, with connector pin for unipolar coagulation Forceps	Size 5 mm, length 30-36 cm, blades curved, double action jaws, length of blades 12 mm, consisting of: Insulated Handle, without ratchet, Outer Tube, insulated, Insert	Four
16	Laparoscopic Scissors, Insert, Scissors curved,	Length of blades 12 mm, double action jaws, size 5 mm, length 30-36 cm	Four
17	Laparoscopic Dissecting Grasping Forceps and	Rotational, with connector pin for bipolar coagulation, size 5 mm, length 30-36 cm, especially suitable for dissection, double-action jaws, consisting of: Ring Handle, Outer Sheath, Forceps Insert	Four
18	Bipolar high Frequency cord	With 2 x 4 mm banana-plug to Coagulator, length 300 cm	Four
19	Laparoscopic Surgical Sponge holder, for atraumatic dissection of tissue layers	Size 5 mm, length 30-36 cm consisting of: Handle, Outer Sheath, insulated, Sponge Holder Insert	Two
20	Maryland dissector	5 mm, length 30-36 cm rotating with connector pin for unipolar coagulation, double action jaws, plastic handle without ratchet, outer tube insulated forcep inserts	Four
21	Multiple tooth grasping forceps	Diameter 5 mm, length 31-36 mm, rotating, double action jaws, plastic handle with ratchet.	Four
22	Atraumatic Non tooth grasping/ dissecting	Diameter 5 mm, length forceps 31- 36 cm, rotating with connector pin for unipolar coagulation, double action jaws, plastic handle without ratchet, outer tube insulated forcep inserts	Four
23	Bowel grasper	Diameter 5 mm, length 31- 36 mm, rotating, double action jaws, plastic handle without ratchet	Four
24	Babcock grasping forceps	Diameter 5 mm, length 31- 36 cm, rotating, double action jaws, plastic handle without ratchet	Four
25	Laparoscopic bulldog clip straight	Small, Medium ,large	Six pack each

Sl. No.	Description	Specification	Quantity
26	Laparoscopic bulldog clip curved	Small, Medium, large	Six pack each
27	Laparoscopic bulldog clip applicator	Diameter 5 mm, length 31- 36 cm	Two
28	Laparoscopic stone holding forceps	Diameter 10 mm, length 31- 36 cm	Two
29	Suction and irrigation tube	Anti-reflex surface with two-way stopcock, for single hand control, size 5 mm, length 36 cm	Two
30	High frequency needle	Insulated with connector pin for unipolar coagulation	Two
31	L- Hook regular type	Diameter 5 mm, length 31- 36 cm	Four
32	High frequency hook electrode with suction and irrigation channel.	Diameter 5 mm, length 31- 36cm	Four
33	High frequency cord unipolar for HF unit	4 mm, length 300 cm	Six
34	Bipolar coagulating forceps	Power grip type 5 mm, length 32- 36 cm rotating with connector pin for bipolar coagulation, double action jaws, ring handle without ratchet, outer tube insulated, forcep inserts	Six
35	High frequency cord, bipolar	2 x 4 mm banana plug to coagulator, length 300 cm	Four
36	Titanium clip applicator	10 mm x (31-36 cm) for LT 200, LT300 & LT 400 separately	Two each
37	Laparoscopic Needle Holder, straight jaws, axial ring handle with ratchet	size 5 mm, length 30-36 cm, for use with suture material 2/0-4/0, needle size RB (Ethicon)	Two

Sl. No.	Description	Specification	Quantity
38	Laparoscopic Needle Holder, convex / concave, slim jaws, curved left, axial ring handle with ratchet	size 5 mm, length 30-36 cm, for use with suture material 3/0, needle size RB-1 (Ethicon)	Two
39	Laparoscopic Satinsky Clamp	Long version, length of Jaw 10 cm, Depth of Jaw 2.5 cm, straight Sheath with axial ring handle, Ratchet with safety locking device, Size 10 mm, Length 30-36 cm	Two
40	Laparoscopic Hemolock Clip Applicator - MEDIUM	Matt Finishing Stainless Steel appier Compatible only with USFDA approved medium polymer clip 360 rotation knob with one finger Provides tactile feedback when locking	Two
41	Laparoscopic Hemolock Clip Applicator - LARGE	Matt Finishing Stainless Steel appier Compatible only with USFDA approved large polymer clip 360 rotation knob with one finger Provides tactile feedback when locking	Four
42	Laparoscopic Hemolock Clip Applicator - EXTRALARGE	Matt Finishing Stainless Steel appier Compatible only with USFDA approved extra-large polymer clip 360 rotation knob with one finger Provides tactile feedback when locking	Four
43	Carter Thomson Port closure needle	-	Two

44. TECHNICAL SPECIFICATION OF LAPAROSCOPIC /ENDOSCOPIC FULL HD CAMERA HEAD AND CONTROL UNIT WITH HD RECORDING & STORAGE SYSTEM.

- System should have full HD output (1920x1080in DVI Format).
- Should have 3 (three) chip CMOS SENSOR of the camera system and it should generate significantly higher real resolution than provided by CCD cameras.
- **With in- built video/sill HD recording & storage facility.**
- **Camera Coupler should be zoom coupler with 15-35mmfocallength.**
- Should have image capturing capacity in camera head (in 16:9 format).
- Camera head should inbuilt with keys for white balance, enhancement, light on/off, image capturing / freeze function etc.
- Camera head should be sterilizable. Plug& play user friendly operation
- The sensitivity of the sensor should be much higher without negatively affecting the sharpness tissue colour differentiation along with optimum contrast and brightness of the image.
- Max resolution of 1920x1080 pixel, progressive scanning, 50/60 HZ and support 16:9 format.

- Color system PAL/NTSC, power supply 200-240 VAC, 60 HZ.
- Should have sensitivity minimum 1.3 to 2 LUX. Focal length: 1.5 -3.sCm.
- Image sensor: 1/3"CMOS
- Should have Signal to noise ratio 60-70db.
- Facility to select different light source like LED, Xenon and Halogen.
- Consists of freeze function in camera head.
- The camera system should have Digital Zoom function operated from the camera head button.
- No extra adjustment should be required by the user while operating camera system.
- **Should have 2 TB Hard Disk storage capacity.**
- **If in-built recording system is not available then company should provide compatible external HD recording system with storage facility and it should be European CE (4 digit notified body) / US FDA approved.**
- **Camera control unit**
 - Main cable.
 - BNC connecting cables: 2, length 180- 200 cm.
 - S-VIDEO connecting cable: 2, length-1s0-200 Cm.
 - SD OUTPUT CABLE -2, length 180- 200 cm.
 - SCB Connecting cable- 100-150 Cm.
 - DVI-D Connecting cable: 2, 180-200 Cm.

45. ENDO LED LIGHT SOURCE:

- It should be a LED Light Source and able to control manually
- It should be Remotely controllable in Core
- It should have color temperature of (5800-6000) Degree (IR FILTERED) .
- Its light intensity should be equivalent to (300) watt Xenon.
- It should have with large status display for all functions
- It should have an optical sensor which allows switching on the bulb only while the cable is connected.
[It should have low noise ventilation concept for a calmer atmosphere in the operating room
- It should have a life time of 30,000 - 60,000 hours.
- It should be a maintenance free equipment
- It should be able to reduce the energy consumption than Xenon and halogen
- It should have uniform colour temperature over the entire lifetime of the LED
- Intensity indication should be there
- Power supply :100-240 V A.C, r 50/60 HZ
- Medical Protection Class: lob Type.
- It should be supplied with Light Cable:
- Autoclavable
- It should have high quality fibre bundle to withstand the high intensity light like 300W
- It should have of length 250 - 300 cm & Diameter 4.5 to 5 mm.
- It should come with metal braided for better protection to the fibres.
- It should withstand high temperature and flexible in nature.

46. HDTV FLAT SCREEN MEDICAL GRADE MONITOR FOR LAPAROSCOPY ENDOSCOPY SURGERY (Two in quantity)

The Medical Grade Monitor should have:

*High Class Full LCD panel **26" or more**/2T diagonal

- *High Definition Monitor to be used for Video LED.
 - *LED back light illumination.
 - *Fast response time
 - *It should accept high definition signal through DVI 7 produce accurate images with smooth & natural gradation using IN-Plain -Switching panel.
 - *For better viewing comfort to surgeon the monitor should have double side anti reflection coating on front glass to reduce glare.
 - *Full glass flat front.
 - *picture in picture facility.
 - *The monitor should have passive -cooling, Antiglare and Hard Coated Panel.
 - *Resolution of 1920 x 1200 pixels
 - *Aspect Ratio of 16:10
 - *DVI-D, VGA, HD-SDI/BNC/S-video inputs and outputs VGA input for Pc.
 - *Excellent angle of view, contrast, brightness and colour depth.
- Monitor Stand for Safe mounting.
- Mains supply 240 V, 50 Hz
- Should confirm to the international standards.
- It should have Monitor Stand for above Monitor from the same origin.

47. CO2 INSUFFLATOR WITH THE FOLLOWING SPECIFICATION:

- * It is an Automatic Pressure and Flow Control Insufflators. It has High degree of safety During Laparoscopic Procedures. It has a High Flow Insufflations of 40 litter / Min or more. It has Digital Display and User Friendly Design. It should have built in self test, occlusion test, continuous monitoring of safety parameter. Protection class: I, Protection level :BF. Operating temperature Condition : 10-40 degree C (Approx.) It Is Consist of Insufflations Tube 5 Mm 2.5 M Long, Verees Needle 120mm Long Hygiene Filter Sterile Pack of 5 Power Cable 3 M Long, Spanner as per requirement It should have high pressure connection tubes for Co2 bottles with din connection 1-2 m long.

48. MOBILE TROLLEY

- *The trolley should be made of rust proof material with white finish, it need not any certification
- *It should have 4 double castor wheels, 2 featuring a double lock (direction lock/free wheel/total lock).
- *It should have 3 shelves, 2 individually adjustable.
- *It should have a back panel and integrated cable duct.
- *The Trolley should have a Monitor bridge to hold a Monitor including Monitor mount.
- *It should have interfaces for support arms and installations of extensive accessories.
- *It should include Premium Electrics 220-230V, consisting of Electronic housing with integrated isolation transformer 220-230V, isolation monitor and shut off module, device socket block with main switch module, isolation control indicator and 12 device sockets & 6 device power cable.
- *It should have a Camera mount.
- *It should have a swivel arm with effective length of 58cm with integrated cable channel, mechanical transport locking.

*The swivel arm should be able to carry a load of 3-10kg.

Standards and safety for instruments

* It should be CE (4 digit notified body) & US FDA /BIS approved.

** For hand instruments, it should be CE / USFDA / BIS approved.

The supplying company should follow the following instructions.

1. Prior price bit opening live demonstration is essential in our O.T.
2. The instrument should have minimum of 2 year warranty
3. Concerned company should have local representative at Kolkata for prompt repair and service.