



## 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-324/2023**

**Dated-23.06.2023**

### Amendment-I

### Revised Technical Specification

#### TECHNICAL SPECIFICATION

| Sl. No. | Description   | Specification   | Quantity |
|---------|---|---|----------|
| 1       | Forward-Oblique<br><b>High Definition Telescope</b><br>30°, enlarged view<br>(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<br><b>High Definition Telescope</b><br>30°, enlarged view<br>(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 <b>High Definition Telescope</b><br>0°, enlarged view<br>(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 Pneumoperitonium 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                        | 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 -3.5cm.
- 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.
- 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-150-200 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: (TWO in Quantity)

- 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 light cable identification standby, if the light cable is removed
- It should be able to produce endoscopic images in a realistic light.
- It should have highest level of brightness and realistic colors for imaging with all the relevant details  
[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: Iob 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"/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.
- \*Protective Integrated & toughened glass in front to reduce the accidental damages during movement in operation theatre.
- \*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 30 litter / Min. 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 Stainless Steel with white finish
- \*It should have 4 double castor wheels, 2 featuring a double lock (direction lock/free wheel/total lock) 2 wheels electrical conductive.
- \*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.

The supplying company should follow the following instructions.

1. Prior price bid 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.