Corrigendum
In tender document of
Enquiry No. F.No 24/EQPT/24/2013-RISH(ADMN)
After
Pre bid meeting on 13-08-2013 at 03.00 PM
Department of General Surgery

Tender for Department of General Surgery: Page No 13 to 16 and page No 32 totally replaced in Enquiry No.F.No 24/EQPT/24/2013-RIS (Admin) tender for Department of General Surgery and :-

High Definition Camera System for Minimal Access Surgeries and Hand Instruments Set for Laparoscopic Surgery

Part A: High Definition Camera System for Minimal Access Surgeries

Full High Definition Digital Camera

The system should have following features:

- It should be a Three Chip high definition camera with digital video of 1920x1080 resolution camera head and console.
- The system should have Digital/ Optical Zoom to enhance the quality of Image size regardless of the telescope used.
- Button controls on camera Head to control vital functions of camera, like White Balance, Brightness etc.
- Video Outputs: DVI, S-Video and RGB (Optional)
- The Camera should preferably have Signal to Noise ratio range of 60-70 dB.
- The Camera Head should have a focusing coupler for even focus control.
- Should offer both NTSC and PAL Video Formats.
- The Unit should be compatible for recording of stills and videos.
- The system should be Menu driven, thus allowing the surgeon to program the camera head functions as per the surgical needs & requirement.

Technical Specifications:

<table>
<thead>
<tr>
<th>Image System</th>
<th>1/3&quot;Progressive Scan CCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixels</td>
<td>1920 X 1080 pixels per chip</td>
</tr>
<tr>
<td>AGC</td>
<td>Microprocessor controlled</td>
</tr>
<tr>
<td>Signal-to-noise ratio</td>
<td>60-70 dB</td>
</tr>
<tr>
<td>Video output</td>
<td>S-Video &amp; DVI (Minimum)</td>
</tr>
</tbody>
</table>

High Definition Medical Grade Monitor

The system should have:

- Hi Definition Colored Monitor 24"26" Flat Panel Monitor
- PAL system compatible.
- Composite, S-Video and DVI inputs (Minimum)
- Compact & Lightweight design.
- Resolution more than 1100 lines

Xenon Light Source

- 300 W Xenon Light Source with 100-240 V
- Xenon bulb should emit light at temperature of 5700-6000K
- Minimum bulb life of 500 hours.
- Light intensity adjustable from console.
- Universal Jaw Assembly to adapt any make of fiber optic cable
- Display of Bulb hours elapsed on console

Fiber Optic Light Cable

- Size should be diameter > 3.5 mm, length > 160 cm
High Flow Insufflator

- High flow of 30 liters or more with LCD/Digital display
- Microprocessor controlled & Software driven for upgradeability
- Soft approach pressure control for safe recovery of abdominal pressure
- Should have visual and audible alarms with min 0.1 L flow rate
- Internal leakage detection capability
- Integrated Gas heating
- Having internal venting system for safety
- Unit should include heated tubing, hose & yoke

Laparoscopes for Surgery

- Wide Angle Full Screen, Forward-Oblique and lateral scope
- Optimal centre-to-edge resolution for enhanced picture quality
- Angle of view: \(0^\circ - 30^\circ\)
- Diameter 10mm and 5mm
- Length 32-36 cm
- Fiber optic light transmission incorporated
- Standard ocular window for coupling the camera head
- Scratch resistance sapphire quoted tip lens
- Advanced Rod lens system for optimum brightness, contrast and definition

Digital High Definition Recording System

- The Full High-Definition Digital Documentation System should be a high-end computer system based on Windows embedded platform (for security purposes) designed specifically for recording, managing, editing and archiving surgical images and video in HD (1920x1080) resolution.
- The captured full high definition images & videos can be accessed from the hard drive for printing or saving onto multiple forms of external media which includes CD/DVD, USB Flash Drive or Hard Disk Drive (HDD)
- It should have a touch screen display/interface with atleast 200GB Memory of Hard Disk Drive (HDD)
- Video Formats compatible MPEG-1, MPEG-2 and MPEG-4 (Minimum) and Still Image formats like JPEG(.jpg) and BMP(.bmp)
- Should offer multiple video signals like S Video, DVI, C-Video in both NTSC and PAL Formats.
- Video Signals available: DVI, S-Video, C-Video (Minimum)
- Should be compatible to 100-240V 50/60 Hz Power requirements

Trolley

- Maximum shelf load 16 kg (35 lbs) per shelf.
- It should have extendible arm for Monitor Mount.
- Total loading capacity 70-80 kg
- Position heavier components towards the bottom of the Trolley Endo Cart for optimum stability.
- It should have Isolation Transformer
- Should Have Extendible Video Arm to Mount Medical Grade LCD Monitor
- It should have High Quality Caster Wheels
- It should have inbuilt Electric Switches channelled through Isolation Transformer
- Voltage Rating: Input: 240V ~ 50Hz 2.4KVA
- Output: 220/240V ~ 50Hz 2.4KVA MAX
- Should have the bracket/ clamp to hold small gas cylinders supplied along with connections
[Camera, Monitor, Lightsource, Fiber Optic Cable, Laproscopes, Recording System and Trolley should be of same make]

All the items should be European CE or/and US FDA Approved

Part B: Hand Instruments Set for Laparoscopic Surgery

Trocars Cannula & Veresse Needle

- 120mm Veress Pneumoperitonium Needle with spring loaded blunt stylet \( \text{Qty two each} \)
- Metal Trocars & Cannulae with Sealing Caps & Insufflation Cock, Length 10-11 cm with ribbed/threaded outsersurface for self retention on abdominal wall \( \text{Qty two each} \)
- 11 mm Cannula Sleeve with Automatic Valve, Stop Cock
- Metal Trocars & Cannulae with Sealing Caps & Insufflation Cock, Length 10-11 cm with ribbed/threaded outsersurface for self retention on abdominal wall \( \text{Qty two each} \)
- 5.5 mm Cannula Sleeve with Automatic Valve, Stop Cock \( \text{Qty two each} \)
- Reducer11mm-5.5mm \( \text{Qty two each} \)

5mm Hand Instruments and Handles

(For ease of usage and post surgical cleaning & Sterilization the Hand instruments should be provided with separate inserts and appropriate handles)

- Monopolar Autoclavable Peek Multifunction Handle, Inner Shaft Flush Port, 360\(^\circ\) Rotation & Shaft Rotation Lock with Peek Monopolar Handle Ratcheted, facility for connection with monopolar electrosurgery, insulated, Easy to use Ergonomic Design & Easy to clean Shaft.- \( \text{Qty 1} \)
- 5mm, Fundus Grasping Forceps 32 -36 cm, Insert \( \text{Qty two each} \)
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360\(^\circ\) Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Ratcheted, facility for connection with monopolar electrosurgery, insulated: \( \text{Qty 1} \)
- 5mm, Atraumatic Grasper 32-36 cm, Insert- \( \text{Qty two each} \)
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360\(^\circ\) Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Non Ratcheted, facility for connection with monopolar electrosurgery, insulated \( \text{Qty 1} \)
- 5mm, Maryland Dissector 32-36 cm, Insert- \( \text{Qty two each} \)
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360\(^\circ\) Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Non Ratcheted, facility for connection with monopolar electrosurgery, insulated \( \text{Qty 1} \)
- 5mm, Metzenbaum Scissors, Single Action Jaws 32-36 cm, curved tip, Insert- \( \text{Qty two each} \)
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360\(^\circ\) Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Non Ratcheted, facility for connection with monopolar electrosurgery, insulated \( \text{Qty 1} \)
- 5mm, Unipolar curved right angle dissecting and grasping forceps, 32-36 cm, insert- \( \text{Qty one} \)
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360\(^\circ\) Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Non Ratcheted, facility for connection with monopolar electrosurgery, insulated \( \text{Qty 1} \)
- 5mm, Unipolar Hook Scissor 32-36cm, Insert- \( \text{Qty 2} \)
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360\(^\circ\) Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Ratcheted, facility for connection with monopolar electrosurgery, insulated \( \text{Qty 1} \)
- 5mm Grasping forceps atraumatic Hartmann Pouch, 32-36cm insert \( \text{Qty 2} \)
- Reusable Monopolar Cable- \( \text{Qty two each} \)

Dissecting cannula, L - Shaped Electrode, J – Shaped electrode and Spatula Shaped Electrode 5mm, Length 32-36 cm \( \text{Qty 2 each} \)
10mm Hand Instruments & Handle(s)

(For ease of usage and post surgical cleaning & Sterilization the Hand instruments should be provided with separate inserts and appropriate handles)

- **Clip Applicator** for use with Titanium Clips (Medium Large), Rotating shaft
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360° Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Ratcheted, facility for connection with monopolar electrosurgery, insulated - **Qty 1**
- 10mm, **Gall Bladder Extractor/Claw forceps**, 32-36 cm, Insert i - **Qty two each**
- PEEK Monopolar Autoclavable Multifunction Handle, Inner Shaft Flush Port, 360° Rotation & Shaft Rotation Lock with PEEK Monopolar Handle Ratcheted, facility for connection with monopolar electrosurgery, insulated - **Qty 1**
- 10mm, **Spoon Forcep** Length 32-36 cm, Insert - **Qty one**

**Miscellaneous**

- **Needle Holder** with detachable Handle (Straight and Curved) - **Qty two each**
- 5mm **Bipolar Forceps with Ring Handle** includes Shaft, Insert, Handle & Sealing Cap - **Qty 2 each**
- Reusable **Bipolar Cable** - **Qty one**
- 5.5mm **Aspiration Needle 17 G** - **Qty one**
- **Suction Irrigation** (Trumpet Style), 5mm and 10 mm - **Qty one each**
- Suture passer needle - **Qty one**
- 5mm Fan retractor - **Qty one**
- 10mm and 5mm, **Liver Retractor**, Length 32-36 cm - **Qty one each**
- **Sterilization/ Disinfection Tray** - Disinfection/ Sterilization Tray with sieve tray to lift - **Qty one**
- **Hassan’s Cannula** - **Qty two each**

**Note:** All items should be either European CE Approved &/Or US FDA Approved

<table>
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<tr>
<th>Formaline Chamber</th>
<th>Qty 1</th>
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**Formaline Chamber** made of Virgin Arclyc 4.5 mm thickness with three trays, for sterilizing the laparoscopes.

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- Suitable UPS with one hour backup time with SMF batteries and Stand.
- Should be able to work on wide input range between 160-270 VAC at frequency between 50Hz± 2Hz.
- Should use PWM technology with power conversion with single transformer arrangements with an output of 220VAC± 5%.
- Protection of overload, short circuit and low battery
- Should have indication on front panel for mains load/ battery load/ battery overload-low and MCB protection in case of short circuit.

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Specifications for Electro Surgical Unit

- The unit should be a microprocessor controlled electrosurgical unit with tissue impedance feedback system.
- It must have digital display for power setting of monopolar cut, monopolar coagulation, bipolar cut and bipolar coagulation.
- Should have monopolar coagulation with dual output facility.
- Should have split patient plate contact quality measurement facility with display of bar graph showing percentage of patient contact connectivity.
- The unit should have Soft, Force and Spray Coagulation in Monopolar mode. It must have at least 4 levels of haemostasis settings & separate audible tones for cut and coagulation modes.
- The unit should have multiple programmable settings and multiple preset memory for different specialty applications. It must have auto-self test facility.
- The unit should have user settable auto start and auto stop facility in bipolar coagulation
- The unit should have a double pedal explosion protected footswitch for monopolar & bipolar applications and a separate connector to connect the resectoscope / TUR applications.
- The generator should have at least HF power of 300 Watts for monopolar cut and 120 watts for Soft, Force and Spray coagulation, bipolar cut and bipolar coagulation.
- It must have patient plate monitoring circuitry to monitor connectivity between the patient plate and the unit along with audible and visible warning against malfunction and disconnection of patient plate.
- The Safety class should be Class I, Type CF and the unit should be manufactured at an ISO 9001:2000 certified factory
- Should be supplied with standard accessories: Cab le for patient plate, reusable Silicon Rubber Patient plate, 2 set of split patient plate, Double Pedal Explosion protected foot switch, Knife electrode, Ball electrode, Reusable electrode handle and power cord.
- Please separately provide cost of consumables not covered under guarantee period.

Note:- Above item should be European CE or/and US FDA approved