

**Amendment No.1**

Date: 20.12.2013

**Subject: Amendment to the tender Enquiry Document****Ref:Tender Enquiry No.: HLL/PCD/PMSSY/AIIMS-II/04/13-14 dated 02/12/2013**

The pre-bid meeting for the referred tender enquiry was held on 09/12/2013. Based on pre-bid discussions following amendments are being incorporated in the referred tender enquiry document.

**Section I**  
**Notice Inviting Tenders(NIT)**

**(1) For:-**

S.No.	Name of Equipment	Department	Quantity per AIIMS	Total Quantity for 6 AIIMS	EMD
13	Electro OT table	Surgery	2	12	360,000
15	Laparoscope set	Surgery	1	6	660,000
19	ESU with vessel sealing	Surgery	1	6	144,000

**Read as:**

S.No.	Name of Equipment	Department	Quantity per AIIMS	Total Quantity for 6 AIIMS	EMD
13	Electro OT table	Surgery	2	12	<b>444,000</b>
15	Laparoscope set	Surgery	1	6	<b>720,000</b>
19	<b>Deleted</b>				

**(2) For:-**

Sl. No.	Description	Schedule
vi.	Closing date & time for receipt of Tender	14.01.2014, 1200 hrs IST
vii.	Time and date of opening of Techno – Commercial tenders	14.01.2014, 1230 hrs IST

**Read as:**

Sl. No.	Description	Schedule
vi.	Closing date & time for receipt of Tender	17.01.2014, 1200 hrs IST
vii.	Time and date of opening of Techno – Commercial tenders	17.01.2014, 1230 hrs IST

**Section IV**  
**General Conditions of Contract**

**(1) For:-**

21.4: Irrevocable & non – transferable LC shall be opened by the respective consignees.

**Read as:**

21.4 Irrevocable & non – transferable LC shall be opened by **the purchaser**.

**Section VI**  
**List of Requirements**

(1) For:-

S.No.	Name of Equipment	Department	Quantity per AIIMS	Total Quantity for 6 AIIMS	Warranty required	CMC required
19	ESU with vessel sealing	Surgery	1	6	5 years	yes

Read as:

S.No.	Name of Equipment	Department	Quantity per AIIMS	Total Quantity for 6 AIIMS	Warranty required	CMC required
19	Deleted					

(2) For:-

**Part II: Required Delivery Schedule:****b) For Imported goods directly from foreign:**

75 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Tenderers may quote the earliest delivery period).

**Read:****b) For Imported goods directly from foreign:**

90 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Tenderers may quote the earliest delivery period).

**Section – VII**  
**Technical Specifications**

**Schedule no. 1**  
**ORTHOPAEDIC OPERATING TABLE with ACCESSORIES**

**1. Existing specifications-**

1. Each orthopedic table must be equipped to perform the following procedures: Direct anterior approach to total hip
2. The table must allow hyperextension, abduction, adduction and external rotation of the hip for femoral component placement
3. Table should include suitable accessories to permit pediatric orthopedic interventions
4. It should be of international standards having European CE and US FDA approval
5. Warranty- 5 years comprehensive warranty of every part of the table, CMC- 5 years including remote control

**Read as-**

1. Each orthopedic table along with its accessories must be able to perform orthopedic trauma surgeries, arthroscopy, pediatric orthopedics, spine and standard replacement surgeries.
2. DELETED
3. DELETED
4. DELETED
5. DELETED

**2.Existing specifications-**

**Table must have the following standard features:**

1. Radiolucent table top made up of Carbon Fiber for orthopedic use .

**Read as-**

**Table must have the following standard features:**

1. Radiolucent table top made up of Carbon Fiber **or equivalent** for orthopedic use .

**3. Existing specifications-**

2. Radiolucent top for orthopedic use:

- a) Three or more sectional back plate with tow or more detachable shoulder segment.
- e) Should be able to slide by half.

**Read as-**

2. Radiolucent top for orthopedic use:

- a) Three or more sectional back plate.
- e) Should be able to slide longitudinally more than 250mm both side.

**4. Existing specifications-**

3. Eccentric base and rolls on heavy duty castors for longitudinal and lateral movement

**Read as-**

3. Should have provision for Eccentric Position.

**5. Existing specifications-**

4. Two foldable and detachable carbon fiber traction bars fixed beneath the seat plate with two adjustable pivot joints

**Read as-**

4. Two foldable and detachable **radiolucent** traction bars fixed beneath the seat plate with two adjustable pivot joints.

**6.Existing specifications-**

6. Chrome nickel steel base

**Read as-**

6. Hygenic steel base.

**7.Existing specifications-**

7. Additional attachment made up of carbon fibre to allow intraoperative fluoroscopy examination in paediatric patients

**Read as-**

7. Additional radiolucent attachment/ plate for orthopaedic intervention in paediatric patients.

**8.Existing specifications-**

9. All supports for different positions should be included for children separately.

**Read as-**

9. Deleted.

**9.Existing specifications-**

10. Table measurements and control panel:

- d) Motorised back plate up and down-90 degree
- h) Patient weight capacity 180kg
- k) Width: 65-70cm

**Read as-**

- d) Motorised back plate up 80-90 degree and down upto -40 degree
- h) Patient weight capacity >180kg for all positions.

k) Width: more than or equal to 50 cm without side rails.

**10.Added para-**

L) Table should be able to bring to zero position with single button.

**11.Existing specifications-**

**Each table must be provided with the following accessories:**

5. Attachments for direct approach for MIS Hip replacement should be made of carbon fibre.
6. Femoral hook for direct anterior approach for MIS Hip replacement.
13. Beach chair position system with helmet type head rest for position of the patient along with shoulder plates made of carbon fibre.
20. Accessories for Hip arthroscopy including large perineal post and traction system

**Read as-**

5. Deleted
6. Deleted
13. Beach chair position system with helmet type head rest for position of the patient along with radiolucent. shoulder plates.
20. Deleted

**12.Added para-**

24. Should include below Pediatric accessories-

- a) Pediatric traction boot.
- b) Side post.
- c) Perineal post

**13.Added para-**

25. Two or more detachable shoulder segment.

**14.Added para-**

- RS 232 port/USB should be available for diagnostic and servicing purposes.
- It should be USFDA/European CE approved and all accessories from the same manufacturer.

## **Schedule no. 2**

### **Cautery Machine with Vessel Sealing**

**1.Existing specifications-**

5. The unit should have self testing facility for trouble shooting. Should have LCD display & audible alarm functions. different positions should be included for children separately.

**Read as-**

5. The unit should have self testing facility for trouble shooting. Should have LCD display/Digital display & audible alarm functions. different positions should be included for children separately.

**2.Existing specifications-**

9. It should be compatible with argon plasma coagulator system.

**Read as-**

**9. Deleted**

**3.Existing specifications-**

12. It should have vessel sealing forceps for open surgery and laparoscopy surgery. - all sizes (2 each).

**Read as-**

12. It should have reusable vessel sealing forceps for open surgery and laparoscopy surgery. - all sizes (2 each).

**4.Existing specifications-**

14. The maximum power of different type outputs should be as:-

- Cutting Max- 400W at 300 Ohms
- Cutting Max– 300 W at 300 Ohms
- Endo Mode Max– 100 W at 200 Ohms
- Contact Coagulation– Max 250 W at 200 Ohms
- Spray Coagulation– Max 120 W at 300 Ohms

**Read as-**

14. The maximum power of different type outputs should be as:-

- Monopolar Cutting Max- 300W- 400W, Monopolar Coagulation 120W or more
- Bipolar Cutting 150 W or more, Bipolar coagulation 120 W or more
- Endo Mode Max– 100 W at 200 Ohms
- Contact Coagulation– Max 250 W at 200 Ohms
- Spray Coagulation– Max 120 W at 300 Ohms

**5.Existing specifications-**

17. The equipment should be CE 0297 marked for safety standard.

**Read as-**

17. The equipment should be European CE/ US FDA approved and all accessories should be from same manufacturer.

**6.Existing specifications-**

18. Should have cart system for electro surgery unit with following accessories:-

- a) 1 power unit
- b) 3 Power outlet
- c) 1 handle out of stainless steel
- d) Foot switch bracket
- e) 2 Argon cylinder
- f) Cylinder pad for argon gas cylinder (10 Nos).

**Read as-**

18. Should have cart system for electro surgery unit with following accessories:-

- a) 1 power unit
- b) 3or more Power outlet - Indian Standard
- c) Deleted
- d) Foot switch bracket with double paddle
- e) Deleted
- f) Deleted

**Schedule no. 3**  
**Cautery Machine**

**1.Existing specifications-**

j. Simultaneous access to mono and bipolar by 2 or more users

**Read as-**

j. Simultaneous access to 2 monopolar output by 2 or more users

**2.Existing specifications-**

o. . The maximum power of different type outputs should be as:-

- Cutting Max- 400W at 300 Ohms
- Contact Coagulation– Max 250 W at 200 Ohms

- Spray Coagulation– Max 120 W at 300 Ohms

**Read as-**

o. . The maximum power of different type outputs should be as:-

- Monopolar Cutting Max- 300W- 400W, Bipolar Cutting 150 W or more,
- Coagulation 120 W or more
- Spray Coagulation– Max 120 W at 300 Ohms

**3.Existing specifications-**

p. The unit should be supplied with all the standard accessories such as – Reusable push button Handpiece – 2 nos, Electrode set of 10 Nos. each (Pin point, flat tip-short, flat tip- long blade), Explosion protective foot switch – 1 no, earth pad – 5, bipolar forcep with cord straight & angled (19.5cm & 22.5cm) -2 nos each.

**Read as-**

p. The unit should be supplied with all **Reusable** standard accessories such as – Reusable push button Handpiece – 2 nos, Electrode set of 10 Nos. each (Pin point, flat tip-short, flat tip- long blade), Explosion protective foot switch – 1 no, earth pad – 5, bipolar forcep with cord straight & angled (19.5cm & 22.5cm) -2 nos each.

**4.Existing specifications-**

q. The unit should be having quality standard certified by DIN ISO 9001/ EN 46001.

**Read as-**

**q. Deleted**

## **Schedule no. 4** **Suction Machine (High Vacuum)**

**1.Existing specifications-**

6. Should be able to create desired maximum vacuum in least possible time, vacuum should be up to – 90 K pascal.

**Read as-**

6. Should be able to create desired maximum vacuum in least possible time, vacuum should be up to – 90 K pascal with minimum capacity of 60L/min

## **Schedule no. 5** **Mobile C-arm Image Intensifier**

**1.Existing specifications-**

**A X-RAY GENERATOR**

Frequency : 40 KH or better

**Read as-**

**A X-RAY GENERATOR**

Frequency : 30 KH or better

**2.Existing specifications-**

mA in fluoroscopy : 0.1 to 4 mA or more in normal fluoroscopy and 12 mA or more in High Level Fluro

**Read as-**

mA in fluoroscopy : 0.2 to 4 mA or more in normal fluoroscopy and 10 mA or more in High Level Fluro

**3.Existing specifications-**

Should have facility for continuous fluoroscopy and Pulse fluoroscopy ( Pulse rate upto 8 pulse per second )

**Read as-**

Should have facility for continuous fluoroscopy and Pulse fluoroscopy ( Pulse rate upto 12 pulse per second)

**4.Existing specifications-**

Housing heat capacity of minimum 700 KHU and cooling rate of more than 12,000 HU/min

**Read as-**

Housing heat capacity of minimum 400 KHU and cooling rate of more than 12,000 HU/min

**5.Existing specifications-**

**B X-Ray tube Head**

Must have anode heat capacity of min 70,000 HU & cooling rate of min 35,000 HU/Min

Should have dual focal spots

Collimation : motorized iris and motorized rotating blades

Tube assembly filtration of 3.0 mm Al or higher

**Read as-**

**B X-Ray tube Head**

Must have anode heat capacity of min 40,000 HU & cooling rate of min 25,000 HU/Min

Should have dual/Single focal spots

Collimation : motorized iris and motorized rotating blades

Tube assembly filtration of 3.0 mm Al or higher

**6.Existing specifications-**

**C C-Arm mechanism and control panel ( digital work station)**

Swing / panning movement : +/- 12 degrees or more

**Read as-**

**C C-Arm mechanism and control panel**

Swing / panning movement : +/- 10 degrees or more

**7.Existing specifications-**

**E Integrated image processing, recording and memory system :**

**a Image intensifier tube**

Input diameter 9" with Triple field (9/6/4)

Minimum central resolution ( at monitor ) : 2.0 lp/mm or better at 9" FOV

**Read as-**

**E Integrated image processing, recording and memory system :**

**a Image intensifier tube**

Input diameter 9" with Triple field (9/6)

Minimum central resolution ( at monitor ) : 1.4 lp/mm or better at 9" FOV

**8.Existing specifications-**

**F. Digital image processor**

Recursive filter for detecting motion

Medical imaging software's with ability to store 70,000 images or more in hard disk

DICOM option

**Read as-**

**F. Digital image processor**

Recursive filter

Medical imaging software's with ability to store 5000DICOM Compatible images in internal storage

**9.Existing specifications-**

**G. Additional features**

Built in UPS to protect & save patient data.

**Read as-**

Built in/Compatible/External UPS to protect & save patient data.

## **Schedule no. 6** **Automatic Tourniquet System**

### **1.Existing specifications-**

Automatic Tourniquet System should be dual-port, dual-cuff system with microprocessor controls and dedicated ports for supplying and measuring pressure independently, so that it can be used for bilateral joint replacement procedure. With the innovative Limb Occlusion Pressure (LOP) feature. The Tourniquet should combine the latest in advanced tourniquet technology with the well-established tradition of safety, reliability, and convenience.

**Read as-**

Automatic Tourniquet System should be dual-port, dual-cuff system with microprocessor controls and dedicated ports for supplying and measuring pressure independently, so that it can be used for bilateral joint replacement procedure. The Tourniquet should combine the latest in advanced tourniquet technology with the well-established tradition of safety, reliability, and convenience.

### **2.Existing specifications-**

**It should have the following Features:-**

- Limb Occlusion Pressure(LOP) feature,
- Communication should asks the user to confirm a “deflation” command during bilateral procedures to reduce the incidence of clinically significant issues related to “sudden deflation”

**Read as-**

**It should have the following Features:-**

- Deleted
- Audio visual alarm for “deflation” to reduce the incidence of clinically significant issues related to “sudden deflation”

### **3.Added Para –**

**Should be supplied with reusable cuff of all sizes(small, medium & large – 2Nos each)**

**The system should be European CE / US FDA approved**

## **Schedule no. 7** **Battery Operated Drill / Reamer and saw for joint Replacement**

### **1.Existing specifications-**

#### **1. Drill and Reamer Hand Piece**

Maximum speed of 1500 rpm should have variable speed control on the hand piece

**Read as-**

#### **1. Drill and Reamer Hand Piece**

Minimum speed of 1200 rpm and should have variable speed control on the hand piece

### **2.Existing specifications-**

#### **Adaptors for Drill/ Reamer Hand Piece**

6. Screw attachment quick coupling.

**Read as-**

#### **Adaptors for Drill/ Reamer Hand Piece**

6. Quick coupling.



**3.Existing specifications-**

9. Reciprocating Saw with blades of all sizes.

**Read as-**

9. Reciprocating Saw with blades of below sizes with minimum 12000 CPM.

WIDTH 19.5MM LENGTH 86MM, CUTTING THICKNESS 1.27MM

WIDTH 12MM. LENGTH 80MM, CUTTING THICKNESS 0.9MM

WIDTH 21MM. LENGTH 85MM, CUTTING THICKNESS 0.9MM

ACL Blade

WIDTH 9.50mm, LENGTH 25.50mm, CUTTING THICKNESS 0.60mm

**4.Existing specifications-**

10. K Wires trinkle attachment

**Read as-**

10.Trinkle attachment

**5.Existing specifications-**

11. Torque limiter

**Read as-**

11. Deleted

**6.Added Para –**

**17 . The system should be European CE/ Us FDA approved and all accessories should be from same manufacturer.**

**Schedule no. 8**

**General Orthopaedic Instruments**

**1.Added Para for -**

General Orthopaedic Instruments – Set No. 1

General Orthopaedic Instruments – Set No.2

General Orthopaedic Instruments – Set No.3

General Orthopaedic Instruments – Set No.4

General Orthopaedic Instruments – Set No.6

**Instruments should be European CE/ US FDA approved**

**2.Existing specifications-**

General Orthopaedic Instruments – Set No.2

4. Autoclavable storage box for AO screws - 5

5. Autoclavable storage box with trays for AO plating instrument set - 5

9. Wiring Instrument Set

Should consist of the following:

Wire Tightner With Pegs

Wire Passer With Synthetic Handle

Double Action Wire Cutter Large

Wire Bending Pliers Multipurpose

Flat Nosed Parallel Pliers Large With Side Cutter

Wire Holder

Forceps For Holding Cercilage Wire

Box For Wire Instrument Set

**Read as-**

General Orthopaedic Instruments – Set No.2

4. Autoclavable storage box for AO tyoe screws - 5

5. Autoclavable storage box with trays for AO type plating instrument set - 5

9. Wiring Instrument Set

Should consist of the following:

Wire Tightner With Pegs

Wire Passer

Double Action Wire Cutter Large

Wire Bending Pliers Multipurpose

Flat Nosed Parallel Pliers Large With Side Cutter

Wire Holder

Forceps For Holding Cercilage Wire

Box For Wire Instrument Set

**3.Existing specifications-**

General Orthopaedic Instruments – Set No.4

3. Key for Jacob's reamer chuck AO 510.190 10

**Read as-**

General Orthopaedic Instruments – Set No.4

3. Key for Jacob's reamer chuk - 5 Nos. for each sizes

**Schedule no. 9**  
**PLASTER CUTTING SAW**

**1.Existing specifications-**

(i) Heavy duty, Light weight with aspirator.

**Read as-**

(i) Heavy duty, Light weight(0.5kg to 1.5kg) with aspirator, with speed 10000 to 15000 CPM.

**2.Existing specifications-**

(v) Spare Blades -10

**Read as-**

(v) Spare Blades- SS, Titanium & Nitrate – 5 Nos. each

**3.Added Para**

vi) Vacuum capacity more than 7kg

vii) System should be European CE / US FDA approved

**Schedule no. 10**  
**Specifications for Arthroscopy System**

**1.Existing specifications-**

- System has to be supplied with boom and stand required for integration of high definition arthroscopy system with modular theaters

**Read as-**

- Deleted

**2.Existing specifications-**

High Definition Camera System

2. Pure Digital signal with high definition video (1280\*1024 native resolution)

4. 8 specialty settings

10. Inbuilt 16 step digital Image Enhancer on console

11. Digital zoom & white balance on camera head

**Read as-**

### High Definition Camera System

2. Pure Digital signal with high definition video (1920\*1080p native resolution)
4. Automatic settings
10. Automatic Image Enhancer on console
11. Optical zoom, autofocus & white balance on camera head

### **3.Existing specifications-**

#### High Definition Monitor 19"

- High Definition monitor, screen 19", resolution 1280 x 1024 DVI output.

#### **Read as-**

#### High Definition Monitor minimum 19"

- High Definition monitor, screen minimum 19", resolution 1920 x 1080p.

### **4.Existing specifications-**

Accessories for integration of system in Modular Operation Theatres.

#### **Read as-**

**Deleted**

### **5.Existing specifications-**

#### Shaver System

- Electronic control unit
- Foot control
- Handpiece Autoclave RPM 12000
- Microdriver with drilling, wiring and micro saw attachment
- Full radius resector
- End cutter
- Aggressive cutter
- Meniscs cutter
- Oval Burr

#### **Read as-**

#### Shaver System

- Electronic control unit -1No.
- Foot control -1No.
- Handpiece Autoclave RPM 12000 – 1No.
- Microdriver with drilling, wiring and micro saw attachment – 1No.
- Full radius resector -2Nos.
- End cutter-2Nos.
- Aggressive cutter-2Nos.
- Meniscs cutter-2Nos.
- Oval Burr-2Nos.

### **6.Existing specifications-**

#### High Definition Recording System

- Real time, MPEG 2 HD, 1 or 2 compression engine with full IBP encoding
- Video input minimum 2 nos. S-Video, 2 nos. Composite, 1 XGA (1024 X 768) and 1 High-Definition (1280 X 1024).
- Video output S-Video, Composite, DVI & XGA (1024 X 768, 1280 X 1024, and 1600 X 1200)
- Capable of Progressive scan image capture: Analog (640 x 480), Hi-Res (1024 X 768), and

Hi-Def (1280 X 1024)

- Stereo audio Input
- Disc Capacity of 500GB
- Touch screen( Min 10”) Control panel interface
- Multi session disc recording capability supports file formats for images: Bitmap(BMP), JPEG, JPEG2K

**Read as-**

High Definition Recording System

- Should be able to record Real time, Full HD(1920x1080p) digital video.
- Stereo audio Input
- Disc Capacity of 500GB and recording system should be windows XP/ Higher base
- Touch screen( Min 10”) Control panel interface
- Multi session disc recording capability supports file formats for images: Bitmap(BMP), JPEG, JPEG2K

### **7.Existing specifications-**

Modular Cart

- front-locking casters
- lipped top holds monitor
- four equipment shelves
- open back for equipment access

**Read as-**

Modular Cart(Imported)

- front-locking casters
- lipped top holds monitor
- four equipment shelves
- open back for equipment access

**Added Para:**

**The system should be European CE/ US FDA approved and all accessories should be from same manufacturer.**

## **Schedule no. 11** **PNEUMATIC DRILL SYSTEM**

**1.Added Para :**

**Hand Piece - 01No.**

### **2.Existing specifications-**

**Attachments**

Angular Drive Unit for Medullary Reaming 1

**Read as-**

**Attachments**

Angular/ Straight Drive Unit for Medullary Reaming 1

## **Schedule no. 13** **Operation Table: Electro hydraulic**

**1. Existing Specifications:**

**Para: 3.1**

j. Should have built in Kidney Bridge.

**Read as:**

**Para: 3.1**

j. Should have built in **electronic controlled kidney position with additional manual / electronic control Kidney Bridge for better positioning if required.**

## **2. Existing Specifications:**

**Para: 3.1**

d. There should be inbuilt standby control enabling full use of table in case of handset failure.

**Read as:**

**Para: 3.1**

d. There should be inbuilt standby control enabling full use of table in case of handset failure **with manual override.**

## **3. Added Para:**

**3.1 k. Zero level button**

## **4. Existing Specifications:**

**Para: 3.2**

a. Height: 650-1100mm

**Read as**

**Para: 3.2**

a. Height: 650-1100mm **with 50 -70 mm mattress.**

## **5. Existing Specifications:**

**Para: 3.2**

k. Maximum patient weight – 250 Kg or more

**Read as**

**Para: 3.2**

k. Weight – 250 Kg **or more in all position.**

## **6. Existing Specifications:**

**Para: 4.2 g**

**g. Accessories for operating ion prone position**

**Read as:**

**Para: 4.2 g.** The machines should be supplied with the following accessories for operating prone position (Price of each item should be mentioned separately)

a. Gel Flat bottom chest roll (medium)

b. Gel prone positioner

c. Gel prone head rest (large)

## **7. Existing Specifications:**

**Para: 4.2**

h. Optional accessories for endourology work

**Read as**

**Para: 4.2**

h. **Optional accessories (Price of each item should be mentioned separately)**

- A. X-Ray Top for 9” Urology extension
- B. Metal Drain pan
- C. Power lift stirrup set with side rail clamp
- D. Foot control
- E. Split leg pair
- F. Reverse Trendelburg restraint strap
- G. Light weight transfer board.

**Schedule no. 14**  
**Operation Table: Hydraulic**

**1. Existing Specifications:**

**Para: 3.2**

- a. Height: 730-1040 mm

**Read as**

**Para: 3.2**

- a. Height: **700-1040 mm (with 50 -70mm mattress)**

**2. Existing Specifications:**

**Para:4.2**

**g.Accessories for operating ion prone position**

**Read as:**

**Para: 4.2 g.**The machines should be supplied with the following accessories for operating ion prone position (Price of each item should be mentioned separately)

- d. Gel Flat buttom chest roll (medium)
- e. Gel prone positioner
- f. Gel prone head rest (large)

**3. Existing Specifications:**

**Para: 4.2**

- h. Optional accessories for endourology work

**Read as**

**Para: 4.2**

**h. Optional accessories (Price of each item should be mentioned separately)**

- A. X-Ray Top for 9” Urology extension
- B. Metal Drain pan
- C. Power lift stirrup set with side rail clamp
- D. Foot control
- E. Split leg pair
- F. Reverse Trendelburg restraint strap
- G. Light weight transfer board.

**4.Existing Specifications:**

**Para: 6.1**

Should be FDA/ CE or BIS approved product

**Read as**

**Para: 6.1** Should be **US FDA or European CE approved product**

**Schedule no. 15**  
**Laparoscopic Surgery Set with High Definition Camera**

**1. Existing Specifications:**

**Para: 3.1.e**

The system should have Digital Zoom to enhance the quality of Image size & cross specialty standardization of the camera system, regardless of the telescope used.

**Read as:**

**Para: 3.1.e**

The system should have **integrated optical zoom with autofocus facility**

**2. Existing Specifications:**

**Para: 3.1.g.**

Camera control unit should be compatible with all camera heads i.e., Single Chip or Three Chip

**Read as:**

**Para: 3.1.g.** Camera control unit should be compatible with **full HD three chip camera heads. In case of downtime standby unit provided should also be of full HD three chip camera head.**

**3. Existing Specifications:**

**Para 3.1 Technical Specification:**

e) Input: Keyboard for Character Generator, 5 pole

**Read as:**

Keyboard/ Touchscreen keyboard for character generator

**4. Added Para 3.1 Technical Specification:**

g) Facility of direct recording into external storage from camera HUB should be available.

**5. Existing Specifications:**

**Para: 3.2.a**

HDTV Display in 16: 10 HDTV format.

**Read as:**

**Para: 3.2.a**

HDTV display in **16:9/16:10** HDTV format

**6. Existing Specifications:**

**Para: 3.3 TELESCOPES**

**Read as:**

**Para: 3.3 Telescope (High Definition)**

**7. Existing Specifications:**

**Para: 3.4 INSUFFLATOR**

**Read as:**

**Para: 3.4 CO2 Insufflator**

**8. Existing Specifications:**

**Para: 3.4.3**

Optical and acoustic warning signals in case of malfunction or excessive pressure

**Read as:**

**Para: 3.4.3**

Optical and acoustic warning signals in case of malfunction or excessive pressure with facility of automatic release in case of over pressure.

**9. Existing Specifications:**

**Para: 3.4.4** Connectible to medical gas pipeline

**Read as:**

**Para: 3.4.4** Facility for connection to CO2 medical gas pipeline as well as high pressure CO2 cylinder.

**10. Existing Specifications:**

**Para: 3.4.7** Facility for preheating of gas to body temperature

**Read as:**

**Para: 3.4.7** Facility for preheating of gas to body temperature with **internal/external OR both heating devices.**

**11. Existing Specifications:**

**Para: 3.5.6.** Standby mode with emergency lamp with visual indicator

**Read as:**

**Para: 3.5.6.** Standby mode should be available.

**12. Existing Specifications:**

**Para: 3.5.7** Electrical specifications

a) Power supply voltage: 100-240 VAC

**Read as:**

**Para: 3.5.7 DELETED**

**13. Existing Specifications:**

**Para: 3.5.8**

The light source should comply with IEC 60601-1, belong to Class II a with CE mark

**Read as:**

**Para: 3.5.8 DELETED**

**14. Existing Specifications:**

**Para: 3.6.1.**

Controlled suction and irrigation unit

**Read as:**

**Para: 3.6.1.**

Controlled suction and irrigation unit **with flow rate of atleast 1lit/min.**

**15. Existing Specifications:**

**Para: 3.6.7.** Accessories should include silicone suction tubings set , reusable pressure domes, bacterial filter and suction bottles with cap

**Read as:**

**Para: 3.6.7.** Accessories should include silicone suction tubing set, reusable pressure domes, bacterial filter and **sterilizable suction bottles with cap of 3-5 lit capacity (2nos)**

**16. Existing Specifications:**

Para: 3.7 VIDEO-CART

**Read as:** Para: 3.7 VIDEO-CART (**Indian Make**)



**17. Added Para: 3.7 f): It should have minimum 4 shelves.**

**18. Existing Specifications:**

**Para: 3.8 f)** Latest processor & HDD, which should be specified

**Read as:**

Para: 3.8 f) Latest processor & HDD (**atleast 500GB**)

**19. Existing Specifications:**

**Para: 3.8 g.** largest possible RAM, which should be specified

**Read as:**

**Para: 3.8 g.** atleast **4GB** RAM should be available

**20. Existing Specifications:**

**Para: 3.8 i)** Compact key board with drape

**Read as:**

**Para: 3.8 i)** Compact key board with **cordless mouse or touch screen keyboard.**

**21. Existing Specifications:**

**Para:3.8 j.** Cordless mouse

**Read as: Para:3.8 j. Deleted**

**22. Existing Specifications:**

**Para:3.8**

m. Separate mobile cart with lock and key for housing all the components of the image management system

**Read as:**

**Para: 3.8 (m).** deleted

**23. Added Para: 3.8 n.** It should have operating system of **Windows Xp or latest.**

**24. Existing Specifications:**

Para:3.9 CARBON DIOXIDE CYLINDER

**Read as**

Para:3.9 CARBON DIOXIDE CYLINDER (B-type,20kg)

**25. Added Para:**

1. Unit should be European CE and US FDA approved .

2. Bidder has to give demonstration of the equipment if required.

3. All the instruments mentioned in Technical specifications SI no 3.1 to 3.10 (**Not necessary for SI no 3.9 & 3.7**) should be from the same manufacturer.

## Schedule No. 16

### OPEN GENERAL SURGERY INSTRUMENTS

**1. Existing Specification:**

**Para: 2.1.2** The Instruments should be imported and of CE or FDA certification

**Read as:**

DELETED

**2. Existing Specification:**

**Para: 2.1.3** Copy of the European CE certified or US FDA certified must be enclosed.

**Read as:**

Para: 2.1.3 Instrument should be European CE or USFDA approved & copy to be enclosed

**3. Existing Specification:**

Para.2.1.5 The part no. and name of manufacturer should be engaged on the each instrument

**Read as:**

Para.2.1.5 The part number and name of manufacturer should be engraved on the each instrument

**Schedule No. 17**  
**Electro Surgical unit**

**1. Existing Specification:**

**Para:3.9** Simultaneous access to mono and bipolar by 2 or more users

**Read as:**

**Para: 3.9**

The unit should have minimum of 2 monopolar output & 1 bipolar output and should have simultaneous access to 2 monopolar units by more than one user.

**2. Existing Specification:**

**Para:4.2 d** reusable and single use neutral electrode for adults and children along with cable for neutral electrode and fixation device wherever required

**Read as:**

**Para:4.2 d.** reusable (2 Nos.) and single use (50 Nos.) neutral electrode for adults and children along with cable for neutral electrode and fixation device wherever required

**3. Existing Specification:**

**Para:4.2 e**

sterilizable and disposable electrode handle with and without finger switch with cable for electrode handling

**Read as:**

**Para:4.2 e** .Reusable & sterilizable (5 Nos.) and disposable electrode handle with finger switch (50 Nos.) with cable.

**4. Existing Specification:**

**Para: 4.2 f** set of electrodes (long and short) with electrode container with holder

**Read as:**

Set of electrodes (flat tip short, flat tip long & pin point -5 Nos. each) with electrode container with holder

**5. Existing Specification:**

**Para:4.2 g** tip cleaner

**Read as:**

**Para: 4.2** Tip cleaner – 5 Nos.

**6. Existing Specification:**

**Para:4.2 h** .bipolar forceps with cable

**Read as:**

**Para: 4.2 h** .bipolar forceps with cable (straight & bayonet) – 2 each

**7. Existing Specification:**

**Para:4.2 i** cable for connecting to standard monopolar & bipolar laparoscopic instruments

**Read as:**

**Para: 4.2 i.** Cable for connecting to standard monopolar & bipolar laparoscopic instruments – 2 Nos.

**8. Existing Specification:**

**Para:4.2 j** dedicated instruments for open and laparoscopic monopolar & bipolar user

**Read as: Para: 4.2 j DELETED**

**9. Existing Specification:**

**Para:6.2** Suitable UPS with 60 min. back up

**Read as: Para: 6.2 DELETED**

**10. Added Para:**

**Para: 3.14:**

- a) Monopolar cut: 300-400 Watt
- b) Monopolar coagulation: 120 W min.
- c) Bipolar coagulation: Min 100 W

**Schedule No.18**

**Ultrasonic Cutting & Coagulation Device**

**1.Existing Specifications**

**Para:1.1** Ultrasound is the basis for an efficient surgical instrument: the cuts and coagulates by using lower temperatures than those used by electrosurgery or lasers. Controls bleeding by coaptive coagulation at low temperatures ranging from 50°C to 100°C: vessels are coated (tamponaded) and sealed by a protein coagulum. It should not be combined with any other energy source.

**Read as:**

**Para:1.1** Ultrasound is the basis for an efficient surgical instrument: the cuts and coagulates by using lower temperatures than those used by electrosurgery or lasers. Controls bleeding by coaptive coagulation at low temperatures ranging from 50°C to 100°C: vessels are coated (tamponaded) and sealed by a protein coagulum. It should have a facility of additional vessel sealing system attached in the same unit

**2.Existing Specifications**

**Para: 3.1.10**

Should be capable of sealing vessels 5-7mm in diameter

**Read as:**

**Para: 3.1.10**

Should be capable of sealing vessels **atleast upto 5mm** diameter.

**3.Existing Specifications**

**Para: 4.1.4** Open surgery instruments

**Read as:**

**Para:4.1.4 Open surgery instruments – 2 Nos. Each**

**4.Existing specifications**

**Para:4.1.4a** Coagulation shears – 5mm dia, 18cm long or more

**Read as:**

**Para:4.1.4a**

Coagulation shears – 5mm dia, **17cm** long or more

**5.Existing specifications**

**Para:4.1.4b**

Dissecting grasp 5mm for cogulation 18mm or more

**Read as:**

**Para:4.1.4b** Dissecting grasp 5mm for cogulation **17mm** or more

**6.Existing Specifications**

**Par:4.1.5**

Endoscopic surgery instruments

**Read as:**

**Par:4.1.5**

Endoscopic surgery instruments – **2 Nos. each**

**7.Added Para:**

**Para: 3.2** Bidder has to give demonstration of the equipment if required.

**Para: 4.2** Price to be quoted for each of the accessories & it should be valid for the entire warranty period.

**Schedule No. 19**

**Electro Surgical Unit with Vessel Sealing System**

**This item is deleted from the tender.**

**All other terms and conditions of the tender enquiry remain unaltered.**