

Amendment No. 2

Date: 03/04/2017

Sub: Amendment No.02 to the Tender Enquiry Document

Ref: NIT No.: HLL/PCD/PMSSY/AIIMS-II/26/16-17 dated 08.03.2017.

Ref: (i) Tender Enquiry No.: HLL/PCD/PMSSY/AIIMS-II/26/16-17 dated 08.03.2017.

**Section – VII
Technical Specifications**

Schedule: 4

Single plane cardiovascular Catheterization with digital subtraction angiography lab

1. Existing Specification:

J. Installation: 2. Cath lab also need to be provided with total 20 ton AC with voltage stabilizer.

Read As:

J. Installation: 2. Cath lab also need to be provided with total 20 ton AC with voltage stabilizer.

The AC may be distributed to the console room, Procedure room, equipment room and patient waiting area as per site requirement.

2. Added Para under Civil Work:

14. Scrub room and catheter wash room including scrub station and catheter wash sink of standard make to be provided.

3. Existing Specification:

Examination room and console room:

5. Modular design walls cabinets (highest quality) for safe keeping and storage of drugs, catheter, interventional items, manuals procedures sets, linen, trays etc under lock and key. Specify the material, brand and area to be covered.

6. Wall mounted hangars for suspended lead free aprons, film viewer (N 2, flat panel design) for display of images and bill board for memos should be provided.

7. Instrument trolleys, height adjustable operation chair, patient foot step, ergonomically designed chairs with wheels for control room personnel wall counters for medications, consumables, anesthesia equipment and emergencies drug to be provided.

Read As:

Examination room and console room:

5. Deleted

6. Deleted

7. Deleted

4. Existing Specification:

Examination room and console room:

9. Drainage for water from account condensate should be provided and the whole area should be free of flooding. Special care should be taken to reinforce the roof joints and all potential point of water leakage during monsoon or accidental water logging on the roof. Full facility for piped medical grade gas and vacuum supply to multiple points in the angio suit should be provided. This facility should confirm to existing fire/ explosion safety standard

Read As:

Examination room and console room:

9. Drainage for water from account condensate should be provided and the whole area should be free of flooding. Special care should be taken to reinforce the roof joints and all potential point of water leakage during monsoon or accidental water logging on the roof. **Necessary co-ordination has to be done with the MGPS vendor for the successful installation of Medical gas Pipe Line and outlets in Cath lab.**

5. Added Para under Electrical and air conditioning work:

9. The supplier shall be required to specify the total electrical load requirements for the Single plane DSA Centre including the load for air conditioning , room lighting and for the accessories if any.

10. The electrical supply line will be provided by the Institute at one point within the Cath lab Area

11. The electrical distribution panel shall be provided by the vendor.

6. Existing Specification:

Furniture

1. Work station table (high quality or modular)

2. Executive chair- 4, (height adjustable high quality or better)

3. Table top storage 15'x 2' 6"x2' preferable of metal modular design and highest quality for the examination room

4. Storage cabinet (modular design) in nurse's room examination room and console room of possible.

5. Redesigning the area in front of the lab for usage as changing room or housing the sterilizer equipment

Read As:

Furniture:

1. Revolving chairs height adjustable, medium-back with hand-rest in the Console room – 4 Nos

2. Tables for Console and Workstation - As required

3. Modular design walls cabinets (highest quality) for safe keeping and storage of drugs, catheter, interventional items, manuals procedures sets, linen, trays etc under lock and key – 4 nos

4. Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 3 Nos

5. Instrument trolleys- 2 nos

6. Patient foot step – 1 no

7. Drug trolley – 1 no

8. Chairs for patient waiting area – Three seater (chrome plated). - 10 Nos
9. Patient trolley with rubber foam mattress to be kept in the patient preparation room- 1 No
10. Changing rooms should have change lockers and dressing table – 2 Nos
11. Dustbins (plastic with lid) to be provided- 4Nos.
12. All furniture items should be of standard make as mentioned in the table below.

7. Added Para:

LIST OF ITEMS AND SUGGESTED MANUFACTURERS		
SL NO	ITEMS	PREFERRED MAKES
A	FLOORING VITRIFIED TILES	Somany, Kajaria , H&R Johnson, RAK India
B	PAINT	Dulux, Asian Paints , Nerolac
C	PLUMBING	Kohler, Jaguar , Grohe , Roca
D	SANITARY ITEMS	CERA, Hindware, Parryware
E	ELECTRICAL	
1	CABLES	Finolex, Havells ,V-Guard
2	SWITCHES	Legrand, L&T, Crabtree , Roma
3	DISTRIBUTION BOX , MCB	Legrand, L&T, Siemens, Havells
4	LIGHT FITTINGS (LED Lights)	Philips, Crompton, Wipro, Havells
F	AIR CONDINTIONING	Daikin, Hitachi, Blue Star, Voltas,
G	FURNITURE	Hermen Miller , Godrej , Featherlite

Schedule: 10 Pulmonary Function Test Machine

8. Existing Specification:

- O2 cylinders(for multi-breath system) – 02 nos
- Gas mixture cylinder (CO,Helium,O2,N2) – 2 nos
- Regulators for gas cylinders (26 nos)
- Calibration syringe Pulmonary filters (1500 nos)
- Disposable mouth pieces – 500 nos
- Nose clips – 200 nos
- Voltage stabilizer (at least 1 KVA) – 1 no
- Mobile cart (OEM)- 1 no

Read as:

For Each PFT Machine:

- O2 cylinders(for multi-breath system) – 02 nos
- Gas mixture cylinder (CO,Helium,O2,N2) – 2 nos
- Regulators for gas cylinders (26 nos)

Calibration syringe Pulmonary filters (1500 nos)
Disposable mouth pieces – 500 nos
Nose clips – 200 nos
Voltage stabilizer (at least 1 KVA) – 1 no
Mobile cart (OEM)- 1 no

Schedule: 11
Polysomnography (PSG) system for sleep disorders study

8. Existing Specification:

Manufacturer should have a local office/ **person** with complete technical support and application Backup.

Read as: Deleted.

9. Existing Specification:

Installation list of at least **3 Govt** institution in India in past 2 years is required with satisfactory certificate from at least two users.

Read as: Deleted.

Schedule: 16
ADVANCED ELECTRO SURGICAL UNIT WITH VESSEL SEALING

1. **Existing Para:- 2.** The System should have user friendly 3 independent LCD touch screen (of at least 5.7 inches diagonally) display for monopolar, bipolar and Vessel sealing technology, with auto LCD Backlight adjustment for good visibility in operating room.

Read as :- The System should have user friendly 3 independent/**Integrated** LCD touch screen/**TFT Feather touch screen** (of at least 5.7 inches diagonally) display for monopolar, bipolar and Vessel sealing technology, with auto LCD Backlight adjustment for good visibility in operating room.

2. **Existing Para:- 4.** The equipment should incorporate tissue sensing technology at least 3333 decisions per second on real time basis and it should have the technology to convert electrical energy to radiofrequency energy thus providing radiofrequency seal. It should also identify the tissue impedance and adjust power accordingly to get the desired surgical effect on various tissue types.

Read as :- The equipment should incorporate tissue sensing/**tissue feedback** technology at on real time basis and it should have the technology to convert electrical energy to radiofrequency energy thus providing radiofrequency seal. It should also identify the tissue impedance and adjust power accordingly to get the desired surgical effect on various tissue types.

3. **Existing Para:-** 6. The Performance Efficiency Rating (PER) should be between 95-99 in different modes.

Read as :- Deleted.

4. **Existing Para:-** 11. The system should be upgradeable or should have bipolar resection (under water cutting).

Read as :- . The system should have bipolar resection (under water cutting).

5. **Existing Para:-** 12. The system should be compatible with Argon, CUSA & Da Vinci robotic systems.

Read as :- The system should be compatible with Argon, CUSA/**Waterjet (Hydrojet Technology)** & Da Vinci robotic systems.

6. **Existing Para:- 15. Should be supplied with following accessories:**
- Disposable 10mm & 5mm Lap. Vessel Sealing & Dividing Instrument - 10 each
 - Reusable open surgery vascular sealer - 02 with their Disposable electrodes - 50 No's
 - Disposable open surgery vascular sealing instrument - 10 No's
 - Three Button Pencil with power control at sterile zone - 100 No's

Read as :- Should be supplied with following accessories:

- Should be supplied with following accessories:
10mm /5mm Lap. Vessel Sealing & Dividing Instrument (20Nos disposable (or) 2 nos reusable) with/without disposable electrodes (50 Nos. if required)
- Should be supplied with following accessories:
Open vessel sealing & Dividing instruments (20 nos. disposable **(or)** **02 nos reusable) with /without disposable electrodes (50 Nos. if required)**
- Deleted.**
- Two Button** Pencil with power control at sterile zone - 100 No's.

7. **Existing Para:-** 16. Patient plate - 200 no's.
Read as :- Disposable patient plates- 200Nos.

Monopolar and Bipolar

8. **Existing Para:-** 4. It should have minimum two Coagulation modes with **maximum** power of 120 W
- Fulgurate mode for efficient non-contact coagulation in most applications
9. **Read as :-** 4. It should have minimum two Coagulation modes with power of 120 W **or more**
- Fulgurate/**Forced** mode for efficient non-contact coagulation in most applications
10. **Existing Para:-** 5. It should have minimum 3 bipolar modes with maximum power of 95W.
Read as :- . It should have minimum 3 bipolar modes with power of 95W **or more.**
11. **Existing Para:-** 6. Standard, Low & Macro.

Read as :- Deleted.

Vessel Sealer

12. Existing Para:- Vessel sealing system should be of minimum 150-200W **with bar control power setting facility.**

Read as :- Vessel sealing system should be of minimum 150-200W .

13. Existing Para:- 4. All Laparoscopic instruments should have facility for both 5 mm and 10 mm and should have a blade for instant cutting.

Read as :- 4. All Laparoscopic instruments should have facility for both **5 mm / 10 mm** and should have a blade for instant cutting – **02 nos**

14. Existing Para:- 5. The system should have following vessel sealing instruments:

- a. Maryland Jaw Vessel Sealer 5mm 37cm for lap surgery - 6 units
- b. Maryland Jaw Vessel Sealer 5mm 23cm for open surgery - 6 units
- c. Double action Jaw Vessel Sealer 5mm 37 cm for lap surgery - 6 units
- d. Curved Jaw (16.5mm seal) scissor type open surgery instrument with separate control for seal and cut - 6 units.

Read as :- 5. The system should have following vessel sealing instruments:

- a. Maryland Jaw Vessel Sealer 5mm **34 to 37 cm** for lap surgery – **2 Units reusable or 20 Nos. disposable.**
- b. Maryland Jaw Vessel Sealer 5mm **20 to 23cm** for open surgery - **2 Units reusable or 20 Nos. disposable.**
- c. Double action Jaw Vessel Sealer 5mm **34 to 37 cm** for lap surgery - **2 Units reusable or 20 Nos. disposable.**
- d. Curved Jaw scissor type open surgery instrument with separate control for seal and cut - 6 units.

Schedule: 17

PCNL Instruments (Nephroscope with forceps and accessories)

1. Existing Para:- Nephroscope with forceps and accessories 27 fr-1No.

Read as :- Nephroscope with forceps and accessories **25- 27** fr-1No.

2. Existing Para:- 1. Wide-Angle straight forward viewing telescope 0 to 12 deg, with parallel eyepiece, autoclavable , with instrument channel and fiber optic light transmission incorporated.

Read as :- . Wide-Angle straight forward viewing telescope **0 to 30 deg**, with parallel eyepiece, autoclavable , with instrument channel and fiber optic light transmission incorporated.

3. Existing Para:- 3. Scope should have large working channel 12 Fr or more.

Read as :- . Scope should have large working channel **11 Fr or more.**

4. Existing Para:- 4. Operating sheath 27Fr having swivel irrigation connector with automatic locking mechanism compatible with above telescope

Read as :- Operating sheath **25 - 27Fr** having swivel irrigation connector with automatic locking mechanism compatible with above telescope

5. Existing Para:- **6. Should be supplied with**

- c. Grasping forceps for stone fragment and coagula, fenestrated jaws, length 38cm-2
- d. Grasping Forceps for large stone fragments and coagula, alligator jaws and spring handle, length 34-38 cm-2
- e. Grasping forceps for large stone fragments, 3 expanding jaws and small fixation spikes, length 34-38 cm -2
- f. Angled tip stone grasping forceps, length 34-38 cm-2.

Read as :- 6. Should be supplied with

- c. Grasping forceps for stone fragment and coagula, fenestrated jaws, length **38- 40cm-2 Nos.**
- d. Grasping Forceps for large stone fragments and coagula, fenestrated jaws, length **34-40 cm-2 Nos.**
- e. Grasping forceps for large stone fragments, 3 expanding jaws and small fixation spikes, length **34-40 cm -2 Nos.**
- f. Angled/**Straight** tip stone grasping forceps, length **34-40 cm-2Nos.**

6. **Existing Para:-** Nephroscope with forceps and accessories 24fr-Two

Read as :- Nephroscope with forceps and accessories **22-24fr-Two Nos.**

7. **Existing Para:-** 1. Wide-Angle straight forward viewing telescope 0 to 12 deg , with parallel eyepiece, autoclavable, with instrument channel and fiber optic light transmission incorporated.

Read as :- Wide-Angle straight forward viewing telescope **0 to 30 deg** , with parallel eyepiece, autoclavable, with instrument channel and fiber optic light transmission incorporated.

8. **Existing Para:-** 2. Scope should have large field of view, **angle of view 20-30 deg**

Read as :- Scope should have large field of view.

9. **Existing Para:-** 4. Operating sheath 24Fr having swivel irrigation connector with automatic locking mechanism compatible with above telescope.

Read as :- Operating sheath **24-25 Fr** having swivel irrigation connector with automatic locking mechanism compatible with above telescope.

10. **Existing Para:- 6. Should be supplied with**

- c. Grasping forceps for stone fragment and coagula, fenestrated jaws, length 38cm-2
- d. Grasping Forceps for large stone fragments and coagula, alligator jaws and spring handle, length 34-38 cm-2
- e. Grasping forceps for large stone fragments, 3 expanding jaws and small fixation spikes, length 34-38 cm -2
- f. Angled tip stone grasping forceps, length 34-38 cm-2.

Read as :- 6. Should be supplied with

- c. Grasping forceps for stone fragment and coagula, fenestrated jaws, length **38- 40cm - 2 Nos.**
- d. Grasping Forceps for large stone fragments and coagula alligator jaws and spring handle, length **34-40 cm-2 Nos.**
- e. Grasping forceps for large stone fragments, 3 expanding jaws and small fixation spikes, length **34-40 cm -2 Nos.**
- f. Angled/**Straight** tip stone grasping forceps, length **34-40 cm-2Nos.**

Nephroscope with forceps and accessories 12fr- 01 No.

11. **Existing Para:-** 4. The angle of view should be 12 degree or more.
Read as :- The angle of view should be **12 to 45** degree or more.
12. **Existing Para:-** 6.c. **3 Sheaths** along with one step dilators should be supplied of the following specification 15/16f,16.5/17.5 ,21/22f.
Read as :- **2 Sheaths** along with one step dilators should be supplied of the following specification 15- 18 Fr.
13. **Existing Para:-7.** 16.5/17.5 and 21/22 french sheath, dilators should have a central channel for guide wire and along with a distal curved channel for placing a safety guide wire along with a central main guide wire.
Read as :- **15 – 18 Fr** sheath, dilators should have a central channel for guide wire and along with a distal curved channel for placing a safety guide wire along with a central main guide wire.- 03 Nos.
14. **Existing Para:-**The alken serial metal dilator set should include.
2. 2 rigid and **2 flexible** guide rods
Read as: - The alken serial metal dilator set should include.
2. 2 rigid guide rods
15. **Added para:- Should be supplied with 3Nos. each of:-**
 1. Dilatation cannula
 2. Laser suction tube
 3. Sickle cold knife
 4. Wire tray for storage and sterilization tray for sterilization for all PCNL set 26 Fr. 24Fr & 12 Fr.

Schedule: 18
URODYNAMIC MACHINE

1. **Existing Para:-**1. The unit should be able to perform CMG, Pressure Row, EMG, Video Urodynamics with X-ray Transparent Chair, Uroflowmetry, 2nd Uroflow Wireless, Ambulatory Urodynamics (2 pressure and Wireless EMG) and Biofeedback.
Read as :- The unit should be able to perform CMG, Pressure Row, EMG, Video Urodynamics with **radiolucent motorized Chair**, Uroflowmetry, 2nd Uroflow Wireless, Ambulatory Urodynamics (2 pressure and Wireless EMG) and Biofeedback.
2. **Existing Para:-** Equipment should have 8 pressures: **Pves, Pabd, Pura, p4 (for arm), P5 (for arm), P6.**
Read as :- Equipment should have 8 pressures
3. **Existing Para:-** 3. P8 for non-invasive monitoring for diagnosis of erectile dysfunction.
Read as :- Deleted
4. **Existing Para:-** 5. Software for multiple Calibrations and multiple connections: up to 3 wireless devices could be controlled at the same time.
Read as :- Software for multiple Calibrations and multiple connections

5. **Existing Para:-** 32. Should be supplied ultrasound probe for Anorectal findings.
Read as :- Deleted
6. **Existing Para:-** 34. Physical demonstration of the quoted model is essential, failure to demonstration of quoted model will lead to disqualification of the firm.
Read as :- Deleted.
7. **Added para:-**
 1. Should have automatic artifact recognition and compensation on flow transducer.
 2. 7Fr. Single sensor bladder catheter for cystometry-40 Nos.
 3. 7Fr. Single abdominal rectal balloon catheter. -40 Nos.
 4. EMG Cable for Ambulatory Urodynamic- 04Nos.
 5. UPS Should be supplied with system.

Schedule: 19
Extracorporeal Shockwave Lithotripter (ESWL)

1. Shock Wave System

1. Existing Para:-

3. Shock Wave Head should have motorized movements to ensure easy targeting without the need to change patient's position or rotating the table for left or right side stones.
4. Depth of penetration should be 165mm or more.
 9. Largest dimension of the focus should be 8 cm or higher.
 10. Movements of treatment table, X-ray system and the shockwave head should be motorized to ensure easy and accurate stone targeting. All functions should be controllable with remote control touch button keypad. One set of controls must be available at the patient side and one remote set (with all functions) is to be located away from the main machine behind a lead screen, at least 3 meters away from the patient.

Read as:-

3. Shock Wave Head should have motorized movements to ensure easy targeting of stones.
4. Depth of penetration should be **140 mm** or more.
9. Largest dimension of the focus should be **5 cm** or higher.
 10. Movements of treatment table, X-ray system and the shockwave head should be motorized to ensure easy and accurate stone targeting. All functions should be controllable with remote control touch button/**Touch screen** keypad. One set of controls must be available at the patient side and one remote set (with all functions) is to be located away from the main machine behind a lead screen, at least 3 meters away from the patient.

2. Stone Localization system: Integrated, isocentric fluoroscopy and ultrasonography:

2. **Existing Para:-B 2. :-** 3.5/4 MHz transducer on articulated support arm for easy movements and positioning,

Read as:- "3-5 MHz USG transducer with articulated support/hand-held for localization of stone"

3. Existing Para:- 5. Remote control panel:

1. All functions should be controllable with remote control touch button keypad. One set

of controls must be available at the patient side and one remote set (with all functions) is to be located away from the main machine behind a lead screen, at least 3 meters away from the patient. The remote control centre must have all monitors that provide C-arm image and lithotripsy parameters.

Read as:- All functions should be controllable with remote control touch button keypad **or touch screen LCD panel**. One set of controls must be available at the patient side and one remote set (with all functions) is to be located away from the main machine behind a lead screen, at least 3 meters away from the patient. The remote control centre must have all monitors that provide C-arm image and lithotripsy parameters."

4. Existing Para:- Terms & Conditions:

6. The bidder must inspect the site of installation before bidding and ensure the installation of new machine in the existing facility. If any addition all civil/electrical work is required for the functioning of the machine, the bidder must arrange to complete it on his own. It is the bidder's responsibility to ensure that the machine is installed and fully functional to its maximum capacity.

Read as:-

System should be covered under warranty and CMC period with all consumables & spare including shock head generator minimum for 3500 treatment session during 5 years of warranty period & 3500 treatment during 5years CMC period.

ADDED under ESWL:

Turnkey Works for ESWL

Bidder to execute turnkey works in an area of approx. 300 sq feet. Bidder should assist institute in getting AERB site approval (if AERB approval is required for ESWL unit).

Bidder should quote separate rate for each of the following items. The payment shall be made as per the actual work done.

SN	Name of the particulars	Qty	Price in Rs.
1	Construction of 9" brick wall	80 sq meter	
2	Provision of wall tiles- Reputed make	50 sq meter	
3	Provision of Floor tiles- Reputed make	28 sq meter	
4	Provision of false ceiling with 2ftx2ft LED light fittings to provide 500 lux illumination – reputed make	28 sq meter	
5	Provision of double leaf lead lined door	1	
6	Provision of single leaf lead lined door	1	
7	Air conditioning for room and equipment-suitable AC unit split or package unit	7 TR	
8	All Electrical works including provision of electrical control panel, wiring, provision of electrical fittings, equipment earthing etc.	LS	
9	Supply & Installation of 12mm medical grade copper pipeline compliance with EN 13348 complete with all required supports, gas specific painting of the pipeline	10 mtr.	

10	Supply & Installation of 15mm medical grade copper pipeline compliance with EN 13348 complete with all required supports, gas specific painting of the pipeline	40 mtr.	
11	Supply & Installation Oxygen, Vacuum and Compressed air outlets with required probes & hose pipe (Imported) as per HTM-02-01/NFPA99/DIN/EN/ISO standards	3 nos. (1 for each gas)	
12	Supply & Installation of LED X-ray view box for 3 films each of 17"x14"size	1 nos.	
13	X-Ray warning light	2 nos.	
14	Provision of office desk with 2 nos. swivel chairs – reputed make		
15	Desktop computer system min. Core i5, 4GB RAM, 1 TB HDD, 17"Monitor, Mouse, Keyboard & color laser printer & suitable UPS with 30 min.	1	
16	Instrument tray – reputed make	1	
17	Any other dismantling, demolition miscellaneous works etc. if necessary for successful installation and commissioning of the ESWL	LS	

Schedule: 22 Open Surgery Instruments

1. **Existing Para:-** 1. CE certified

Read as :- All instruments should be of a high quality, **US FDA / European CE** certified to ensure quality standards.

2. **Existing Para:- Gerbode sternal retractor:**

Standard spread,- Blades 3 15/16" (10cm) wide by 1 3/16" (3cm) deep, spread 5 7/8" (15cm), arm length 8 11/16" (22cm)

Wide spread: Blades 3 15/16" (10cm) wide by 1 3/16" (3cm) deep, spread 8 1/2" (21.5cm), arm length 8 11/16" (22cm)

Read as :- Deleted.

3. **Existing Para:-** Chaux multipurpose sternal retractor:

Spread 9 1/4" (23.2cm), blades 1 1/8" (2.7cm) wide by 1 1/4" (3cm) deep, arm length 8 1/2" (20.5cm), rack length 11 1/8" (28.2cm)

Read as :- Deleted.

4. **Existing Para:- Kuyper-murphy sternal retractor:**

Small- Spread 6 7/8" (17.5cm), blades 2 1/8" (2.8cm) deep by 3" (7.6cm) wide, arm length 5 1/8" (13cm)

Medium- Spread 6 5/16" (16cm), blades 2 1/8" (2.8cm) deep x 3 9/16"(9cm) wide, arm length 6 1/2" (16.5cm).

Read as :- Deleted.

5. Existing Para:- Chisel and Hammer

Read as :- Amended as "Chisel - 12mm, 6.5 inches - 1 no and Mallet with metal head - 8 inches - 1 no"

6. Existing Para:- Sternal Saw- Pneumatic

Read As :- Deleted

Added Para:-

- 1. Item Code and Manufacturer name should be LASER engraved on the instrument.**
- 2. Compatible Sterilisation Containers shall also be provided.**
- 3. Instruments supplied should be 90% or more from the same manufacturer.**
- 4. Scott Ring Retractor with 6 retractable blades for adult urethroplasty**
- 5. Turner-Warwick needle Holder 6-8 inches - 2 nos**
- 6. Prostate retractor - long straight with Y-shaped end**
- 7. Open Titanium clip Applicator for size LT-300 and LT-400**
- 8. Castroviejo needle holder - 2 nos**
- 9. Microscopic ring forceps - 2 nos**
- 10. Castroviejo Scissors straight - 2nos**
- 11. Castroviejo Scissors curved - 2 nos"**

Schedule: 23

Combined single generator for ultrasonic cutting & coagulation device with advanced Radio frequency energy

A. GENERATOR

- 1. Existing para:-** 1. System should be a single generator with single footswitch that provides ultrasonic energy and advanced RF energy technology for soft tissue dissection and vessel sealing.
Read as :- System should be a **single**/dual generator with single footswitch that provides ultrasonic energy and advanced RF energy technology for soft tissue dissection and vessel sealing
- 2. Existing para:-** 6. Should be able to power ultrasonic energy instruments with 55.5 KHz frequency.
Read as :- 6. Should be able to power ultrasonic energy instruments with **45 KHz** frequency.
- 3. Existing para:-** 10. Should be compatible with articulating RF energy instruments with articulation of 55 deg either side and total of 110 deg of articulation with 360 shaft rotation and can simultaneously seal and transect vessel upto 7mm, large tissue pedicles and vascular bundles with system feedback.
Read as :- Should be compatible with 360 shaft rotation and can simultaneously seal and transect vessel upto 7mm, large tissue pedicles and vascular bundles with system feedback.
- 4. Existing para:-** 13. All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues **and also works separately curved blade and dissecting Hook having telescoping shaft (10cm - 14cm)** with integrated hand activation control buttons.

5. **Read as :-** 13. All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues with integrated hand activation control buttons.
6. **Existing para:-** 14. Should have the ability for software updates via USB memory stick.
Read as :- Should have the ability for software updates via USB memory stick/**HDMI/Link**

C. Accessories

7. **Existing para:-** RF energy 5mm lap hand activated probe capable of sealing blood vessels upto 7mm in diameter, 35cm with 3mm curved tip and 5mm straight tip with active articulation of 55 deg each side using articulation wheel and 360 deg knob rotation.
Read as :- RF energy 5mm lap hand activated probe capable of sealing blood vessels upto 7mm in diameter, 35cm with 3mm curved tip.
8. **Existing para:-** 5. Ultrasonic 5mm lap hand activated curved coagulating shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for generator surgical efficiency, capable of sealing blood vessels upto 7mm in diameter using three hand activation buttons – max, min & advanced hemostatis, proprietary non stick coated active blade to reduce tissue sticking, 36cm shaft length with ergonomic handle.
Read as :- Ultrasonic 5mm lap hand activated curved coagulating shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for generator surgical efficiency, capable of sealing blood vessels upto 7mm in diameter using two hand activation buttons , proprietary non stick coated active blade to reduce tissue sticking, 36cm shaft length with ergonomic handle.

All other terms and conditions of the tender enquiry remain unaltered