

**Tender**  
**For**  
**Common Surgical Equipments**  
**At**  
**All India Institute of Medical Sciences, Jodhpur**

**NIT Issue Date** : **September 02, 2013**  
**Pre-Bid Meeting** : **September 19, 2013 at 03:00 PM.**  
**Last Date of Submission** : **October 02, 2013 at 03:00 PM.**



**All India Institute of Medical Sciences, Jodhpur**  
Basni Phase - II, Jodhpur, Rajasthan-342005.  
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All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan, an apex healthcare institute being established by Parliament of India under aegis of Ministry of Health & Family Welfare, Government of India, invites sealed tenders for supply & installation of the following items at the institute. You are requested to quote your best offer along with the complete details of specifications, terms & conditions.

**ANNEXURE 'A'**

S.No	NIT No.	Qty	EMD (in Rs.)	Item Description
1	Admin/General/227/2013-AIIMS.JDH	5	1,60,000	O.T. Light
2	Admin/General/228/2013-AIIMS.JDH	4	1,48,000	O.T Table
3	Admin/General/229/2013-AIIMS.JDH	7	3,500	Suction Machine
4	Admin/General/230/2013-AIIMS.JDH	1	30,000	Electrosurgery Diathermy Unit with vessel sealer & accessories
5	Admin/General/231/2013-AIIMS.JDH	6	72,000	Electrosurgery Diathermy Unit with accessories
6	Admin/General/232/2013-AIIMS.JDH	4	6,800	Surgeons Operating Stool Adjustable
7	Admin/General/233/2013-AIIMS.JDH	2	1,68,000	High Definition Laparoscopy System
8	Admin/General/234/2013-AIIMS.JDH	2	36,000	Instruments & Accessories for Laparoscopy system
9	Admin/General/235/2013-AIIMS.JDH	1	40,000	Microdrill Set
10	Admin/General/236/2013-AIIMS.JDH	1	32,000	Omni Tract Retractor
11	Admin/General/237/2013-AIIMS.JDH	2	96,000	Ultrasonic cutting device with combined generator
12	Admin/General/238/2013-AIIMS.JDH	125 Item	30,000	Instruments for basic surgical procedures
13	Admin/General/239/2013-AIIMS.JDH	175 Item	1,60,000	Instruments for advanced surgical procedures
14	Admin/General/240/2013-AIIMS.JDH	2	12,000	LED Head Light For Surgery
15.	Admin/General/241/2013-AIIMS.JDH	2	4,000	Binocular Loupes with LED Loupe Light

(Refer Specifications Details as per Annexure-'B')

Quotation should be sealed and superscribed with tender number and address to:

“Administrative Officer  
All India Institute of Medical Sciences, Jodhpur  
Basni, Phase-II  
Jodhpur-342005, Rajasthan”.

The sealed quotations should reach the Institute, latest by October 19, 2013 at 03:00 PM and it will be opened on same day at 05:00 PM in the Project Cell, Residential Complex, AIIMS, Jodhpur of the Institute in the presence of the bidder(s) or their authorized representative(s), who will present at the scheduled date and time.

**Terms & Conditions:**

- 1. Earnest Money Deposit:** The bidder shall be required to submit refundable amount as Earnest Money Deposit (EMD) and a non-refundable tender fee for an amount of **1,000/- (Rupees One Thousand only)** for each NIT by way of demand drafts only as mentioned in Annexure 'A'. The demand drafts shall be drawn in favour of **"All India Institute of Medical Sciences, Jodhpur"**. The demand drafts for earnest money deposit must be enclosed in the envelope containing the technical bid.

The EMD of the successful bidder shall be returned after the successful completion of contract / order and for unsuccessful bidder(s) it would be returned after award of the contract. Bid(s) received without demand drafts of EMD shall be liable for rejection.

The firms who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industrial (SSI) are exempted to submit the EMD (Copy of registration must be provided alongwith).

- 2. Rate:** Rates should be quoted in Indian Rupees (INR) on DOOR Delivery Basis at AIIMS, Jodhpur, Rajasthan, Inclusive of all the Charges, with break-ups as:
  - Basic Cost.
  - VAT /CST as applicable.
  - Total Cost (F.O.R at AIIMS Jodhpur).

- 3. Validity:** The quoted rates must be valid for a period for 120 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

- 4. Delivery & Installation:** The items shall be delivered within 30 days of issue of supply order at AIIMS, Jodhpur. Satisfactory installation / commissioning and handover of the items will be completed within two weeks from the date of receipt of the goods at the AIIMS, Jodhpur premises. The successful tenderer will also provide required training for supplied items at AIIMS-Jodhpur.

The goods should be manufactured after adoption of latest technology.

5. **Sample:** AIIMS Jodhpur reserves the right to ask the tenderers for submitting the sample of each item for which rates have been quoted, Technically Qualified Bidders may be asked to submit samples along with their quoted items nos. and their firm name without indicating any prices before opening of Financial Bid to AIIMS, Jodhpur for Inspection.
6. **Guarantee / Warrantee Period: For the equipment value upto Rs. 5 Lakh:** The Tenderers must quote for 2 years comprehensive warranty (Including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 3 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account on basic price and post warranty CMC.  
**CMC Charges will be payable separately at the time of start of CMC.**
7. **Guarantee / Warrantee Period: For the equipment value above Rs. 5 Lakh:** The Tenderers must quote for 5 years comprehensive warranty (Including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account on basic price and post warranty CMC.
8. **Performance Security:** The supplier shall require to submit the performance security in the form of irrevocable Bank Guarantee (BG) / or Fixed Deposit Receipt (FDR) issued by any Nationalised Bank for an amount of which is equal to the 10% of the order value and should be kept valid for a period of 60 day beyond completion of all the contractual obligation including CMC period.
9. **Payment Term:**
  - 90% payment of the total order value shall be released after the successful installation/ commissioning of the ordered goods against the submission of the test report.
  - Balance 10% of the order value shall be released after the submission of the performance security.
10. Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.
11. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.
12. After due evaluation of the bid(s) Institute will award the contract to the lowest evaluated responsive tenderer.
13. Conditional bid will be treated as unresponsive and it may be rejected.

**14.** The Institute reserves the right to accept in part or in full or reject any or more quotation(s) without assigning any reasons or cancel the tendering process and reject all quotations at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

**15. Quantity:** The quantity of item given in the tender is tentative, which may be increased or decreased as per the institute's requirement.

**16. Applicable Law:**

- The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
- Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Jodhpur, Rajasthan, India only.
- The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jodhpur. The decision of the Arbitrator shall be final and binding on both the parties.
- Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

**"PRE –BID Meeting" with the intending bidders shall be held on 19th Sep 2013 from 03:00 P.M. onwards at AIIMS, Jodhpur.**

# **Specifications**

## **Annexure B**

### **1. O.T. Light System**

- The Lights should have LED light engines in which the mixing of the various LED lights should take place inside the engines itself which should prevent the casting of colour shadows.
  - Should be LED based microprocessor control technology
  - One major dome and one satellite dome.
  - Dome body should be of single piece and should have provision for air circulation.
  - Intensity at 1-meter distance 1,50,000 to 1,60,000 lux for major dome and not less than 1,10,000 to 1,30,000 lux for satellite dome.
  - Colour Temperature: 3500-5500 K.
  - Having on off switch and light intensity control on light dome
  - Homogenous luminous field with lowest possible amount of shadow.
  - The contrast between the lighted area and the surrounding should not cause stress to the surgeon's eye.
  - Depth of illumination should be 100-140 cms. or more.
  - Illuminated field diameter should be approx. 12-30 cms.
  - Colour rendering index (CRI) should be 93 – 98.
  - Height adjustment more than 1 meter.
  - LED life span 30000 or more Hrs.
  - Light field adjustment by sterilizable handles (2 sets).
  - Control panels on the light assembly as well as away from it for adjustment of light intensity, illuminated area and for switching on and off, focusing etc
  - The light head should be so constructed as to provide optimum conditions for laminar flow.
  - User selectable intensity variation with digital display from 5 to 100% in 6 or more steps
  - There should be inbuilt camera in OT light.
  - It should have provision for using it during minimally invasive surgery {maintaining the correct vision of the screen}.
- a. The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
  - b. The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
  - c. Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate Indian plugs and sockets.
  - d. Electronic Voltage corrector/stabilizer of appropriate ratings meeting BIS Standards/Specifications.( Input 160-260 V and output 220-240 V and 50 Hz)
  - e. Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements
  - f. Shall meet internationally recognised standard for Electro Magnetic Compatibility (EMC) for electromedical equipment: IEC-60601-1-2 :latest edition or should comply with 89/366/EEC; EMC-directive as amended

- g. Certified to be compliant with IEC 60601-2-41: Particular requirements for the safety of Operation Theatre Light or equivalent if applicable.
- h. Equipment should be USFDA or European CE approved / certified.

## **2. OT TABLE**

Multipurpose electrohydraulic, mobile Table 4 section suitable for all major surgical procedures, complete with 5cm mattress and corded handset.

### **General operating table features:**

#### **Full-length radio-translucent top with provision complete coverage of patients anatomy with C-arm**

1. Tabletop should be made of a special scratch resistant, hardwearing and easy to clean material. Base column cover to be made of good quality stainless steel alloy and stainless steel.
2. Removable & interchangeable head and leg sections with an auto-locking mechanism to suit different applications.
3. Powered 100% radiolucent Kidney Bridge position should be obtained without moving the patient, through Hand-Control by using lift min, 100mm /break function.
4. Manually operable continuous smooth jerk free head rest adjustment
5. Battery powered, with facility for connection to mains electricity for immediate use. Battery Exhaustion protection and low battery warning exhaustion should be available.
6. Table should not have a thread/sharp edge for ensuring proper cleaning and user safety. Table Top / Base should not have welding and should be joints free.
7. Mattress should be of high quality that spans table top break for improved patient support. Its depth should be 50mm. Mattress must be Latex free.
8. The robust handset should offer controls Trendelenburg. /Reverse Trendelenburg, Lateral Tilt, Flexion/ Extension ,Height functions , table top longitudinal slide ( towards head and Leg) of minimum 360mm.
9. Hyraulic Brakes, on all 4 no.'s corners having Wheels for mobility and 360° rotation applied through hand set
10. Table should have a narrow base allowing optimum access and greater stability.
11. Table should have offset slim-line column, with S.S. Inverted telescopic covers, for superior imaging and access and should have provision for manual override in case of handset loss or malfunction.
12. The table top should not be fitted with transverse members casting shadows on the X-ray images except for the release brackets for adjustment on either side.
13. The Table should be operated by the following operating elements: corded hand control, override panel, footswitch, IR remote control (optional).
14. The table should be fulfil criteria for split leg/all position for patient
15. 5 years warranty and there after 5 years CMC.
16. Equipment should be USFDA or European CE approved / certified.

### **Electrical specification:**

Special-design, maintenance-free rechargeable batteries with capacity for about a week's use in the operating room.

Recharging of the batteries and supply of the operating table by means of a mains cord

Nominal mains voltage (select able) 100/110-115/127/200/220/230-240V AC via mains cord.

Table should have following functions powered through hand remote control:	
Table top longitudinal slide	Minimum 360mm.
Length of table top in standard configuration	1900-2100 mm.
Width of table top without side rails	510 to 540 mm.
Width with side rails	520-560 mm
Minimum height (without mattress)	650-690 mm
Maximum height (without mattress)	1100-1150 mm
Maximum lateral tilt	20-30 deg. (either side)
Maximum trendelenburg	20 to 30 / -20 to -30 deg.
Maximum reverse trendelenburg	20 to 30 / -20 to -30 deg.
Head section adjustment	±45 deg.
Leg section adjustment	+0 deg; to -110 deg
Break (extension) position	210 to 220 deg
Break (flexion) position	100 to 110 deg
Back section adjustment	+80 deg; to -40 deg
<i>Weight bearing capacity in all position</i>	>250 kg

#### Accessories (in built )

Arm board –Pair	1 Pair with each table
Lithotomy leg holders “Geopel type” – 1 Pair	1 Pair each with each table
Body strap- adult and small	2 with each table
Anaesthesia screen	1 with each table
Clamp, rotary / Circular	Bidder to supply Clamps for each accessory as per requirement
Side Lateral Support with pads- 1 pair	1 Pair
Arm support, ( Multipurpose for Raised arm support)	1 Pair

The table should be upgradeable to have accessories for all major specialized surgeries in future , viz. Neuro /Ortho etc.	
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- a. The unit shall be capable of being stored continuously in ambient temperature of 0 - 50 deg C and relative humidity of 15-90%
- b. The unit shall be capable of operating continuously in ambient temperature of 10 - 40deg C and relative humidity of 15-90%
- c. Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate Indian plugs and sockets.
- d. Electronic Voltage corrector/stabilizer of appropriate ratings meeting BIS Standards/Specifications.( Input 160-260 V and output 220-240 V and 50 Hz)
- e. Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements
- f. Shall meet internationally recognised standard for Electro Magnetic Compatibility (EMC) for electromedical equipment: IEC-60601-1-2 :latest edition or should comply with 89/366/EEC; EMC-directive as amended
- g. Certified to be compliant with IEC 601-2-46 (EN60601-2-46) Particular requirements for the safety of Operation Tables or equivalent if applicable.
- h. Additional accessories required for one table only.**

Extra Narrow head support (preferably with head groove) with Stainless Steel Surgeon Wrist Support for ophthalmic surgery (including any other accessory needed to attach this headrest with table after removing existent head rest)	2 Set ONLY
<b>Additional Accessories for Obst. &amp; Gynae</b> TUR Drainage Set (Uro -Pan)	1 set ONLY

### 3. Suction Machine with pump (Electrical)

#### Technical specifications:

- High vacuum suction unit run on electricity.
- It should be mobile portable unit with weight 5 – 6 kg
- Fast and efficient jar change facility.
- Easy access and control
- It should be heavy duty and noiseless.
- Should be able to create desired maximum vacuum in- least possible time
- Two jars of minimum capacity 3 litres, reusable and autoclavable.
- One plastic suction jar cover, steam sterilisable to be provided extra.
- Also should have an option of foot operable switch along with other switch.
- Power supply: 230-250V/50Hz
- Vacuum capacity: >18 litres /min.
- Maximum depression: -75kPa (-563mmHg)

- Vacuum is created by a plastic piston and cylinder system, with four vacuum-creating modules.
- The membrane vacuum regulator permits accurate vacuum settings.
- Double overflow-protection system (bottle and pump).

Working temperature range: +5 to +40°C.

(Two extra suction jars of capacity 3 litres should be quoted with accessories like lid, tubing etc)

#### **4. Electrosurgical Diathermy with vessel sealing device and Accessoris**

<b>TECHNICAL SPECIFICATIONS:-</b>
The system should have Monopolar Cut & Coagulation, Bipolar and Vessel Sealing technology all integrated in one system.
The equipment should have <b>Microcontroller</b> based device incorporating closed loop control for all output modes in the microcontroller firm wire.
The equipment should incorporate <b>tissue sensing technology (3333 decisions per second)</b> on real time basis and it should have the <b>technology to convert electrical energy to radiofrequency energy thus providing radiofrequency seal</b> . It should also identify the tissue type and adjust power accordingly to get the desired surgical effect on various tissue types.
The <b>input operating range</b> of the system should be 90 to 270 AC volts. Maximum current should be 5 to 9 amperes in Monopolar Cut, 3 to 6 amperes in Monopolar Coagulation and 3 to 7 amperes in Vessel Sealing mode.
The <b>operating parameters</b> should be as follows:-
Ambient Temperature Range-should be between 10 to 50 degree centigrade
Relative Humidity –should be between 25% to 80% noncondensing
Atmospheric Pressure-.should be between 700 to 1200 millibars.
Display-Digital or Preferably Touchscreen Display.
The <b>Output wave forms</b> should be between 460 to 480 KHz sinusoid in all modes.
The <b>Low Frequency Leakage</b> should be less than 65 Hz
The Equipment should have the following <b>Alert Tones</b> :-
Patient Pad monitoring Error Alert
Reactivate/Regrasp Tissue Error Alert
Instrument Checking Alert
Complete or Incomplete Seal Alert
Malfunctioning or System Error Alert
The <b>Power Efficiency Rating (PER)</b> should be between 96 to 100 in bipolar modes, 96 to 100 in Monopolar cut mode and 92 to 100 in Monopolar Coag mode.
Monopolar outputs should have minimum two cutting modes: -
Pure cut for clean, precise cut in general surgery having maximum power of 300 W.
Blend mode for cutting with hemostasis having maximum power of 200 W.
It should have two minimum Coag Modes with maximum power of 120 W.
Fulgurate mode for efficient non-contact coagulation in most applications.

Spray mode should have effect of varying amplitude and frequency for coagulating large tissue areas with minimum depth of necrosis.
The system should be integrated with all necessary modes and <b>instruments</b> for various <b>surgical specialities and procedures.</b>
The system should have twin monopolar socket with independent power setting but only one can be activated at a time. The system should also have one universal adaptor socket for footswitch operation and one bipolar socket.
The system should have <b>recall facility</b> to recall the last setting used by user.
The system should be compatible with <b>Argon machine.</b>
The System should have <b>Auto Bipolar</b> start and stops where users can set the Auto start delay time and Auto Stop impedances range.
The System should have user friendly 3 independent <b>digital or preferably touch screen display</b> for monopolar, bipolar and Vessel sealing technology.
The System should have <b>LCD Backlight</b> adjustment for good visibility in operating room.
Vessel Sealing system should have the <b>user control mechanism</b> so that the surgeon can decide for a repeat seal before actually cutting it or even not cutting it.(No Auto-Cut)
Vessel Fusion system should be able to <b>seal</b> artery, veins along with tissue <b>bundle up to 7mm</b> , and fused vessels should be able to withstand <b>3 times the systolic blood pressure.</b>
The <b>thermal spread</b> or collateral thermal spread should be minimal .
It should have <b>Patient plate monitoring</b> facility and should give audiovisual alarm and deactivate output if contact between patient and patient plate is not proper to eliminate the risk of patient burns.
The system should be able to <b>Seal</b> vessels or tissue bundles faster than any conventional devices (preferably within 2-4 seconds).
The Equipment should have <b>On Screen review</b> of error codes and diagnostics.
The system should have RS232, USB, Ethernet port or any other computer connectivity for on field software <b>downloads upgrades and serviceability.</b>
The <b>weight</b> of the machine should be less than 15kgs, <b>height</b> not more than 12 inches, <b>length</b> not more than 24 inches, <b>width</b> not more than 20 inches.
The unit should not have <b>RF leakage current</b> more than 150 mA.
The Equipment Should be <b>US FDA or European CE approved</b>
Installation should be made by the Trained Engineers.
Accessories to have individual/combo footswitches for Monopolar, Bipolar and vessel sealing. <ul style="list-style-type: none"> <li>• Ruber/disposable Silicone patient plate (pediatric and adult) – 2 each</li> <li>• Monopolar forceps with hand control with accessories</li> <li>• Bipolar forceps (straight long, straight short, bayonet) with accessories with non-stick coating.</li> <li>• Double paddle foot switch with cable</li> <li>• Bipolar foot switch</li> </ul> Power cord to connect to diathermy machine (if not in build) able to fit in Indian type of electricity socket

All <b>Laparoscopic instruments</b> should have facility for both 5 mm and 10 mm and should have a <b>blade</b> for instant cutting.
Instruction manuals and proper training should be provided to all the concerned persons of the Department. .

## 5. ELECTRO SURGICAL DIATHERMY UNIT WITH ACCESSORIES

<b>Specification</b>
Instant response technology ensures that the power delivered remains virtually constant, regardless of the tissue type.
Improved performance at lower power setting minimizes the risk of tissue damage and neuromuscular stimulation.
Three internal microcontrollers reduce system reaction time and increase the system processing speed.
Spray coagulation voltage of no more than 9000 volts peak-to-peak output for board, but superficial coagulation with limited capacitive coupling.
A power efficiency rating of approximately 98 or more for cut Performance.
Three cut modes, all controlled by instant response technology, offer surgeons a Varsity of choices. a. Low cut for delicate tissue or endoscopic cases. b. Pure cut for clean, precise cut c. Blend for cutting with hemostasis.
Coagulation modes: a. Desiccate for low Voltage contact coagulation suitable in endoscopic and delicate tissue work. b. High crest factor for efficient non-contact coagulation in most applications. c. Low crest factor for lower voltage coagulation in requirements. d. Spray for coagulating large tissue areas with superficial depth of necrosis.
Three Bipolar modes: a. Different setting in bipolar are controlled by the instant response System. b. Precise and standard setting utilizes low voltage to prevent sparking.
System compatible with other devices, including : a. Argon coagulation system. b. Ultrasonic surgical aspirators. c. Smoke evacuator d. Bipolar current monitor
Compatible with and used as the electrosurgical energy source for: a. Control RF ablation system. b. Electro blade rotary resection system c. Pacemaker lead extraction system.
Compatible with and the exclusive electrosurgical generator for the computer Motion herms Voice command system.
Unit should be advanced – microcontroller based Technology
Unit should have Digital Display with push Button.
Unit should perform self-test During Power ON.
Unit should have programming facility for different surgeries.

Unit should have Digital Wattage Indications for Bipolar, Monopolar Cut and Coagulation.
Unit should have isolated Monopolar and bipolar outputs.
Unit should have Split Type Patient Plate contact monitoring System for Maximum Patient Safety (Unit should not be deliver power until and unless Maximum area of the patient plate is not covered to completely minimize the risk' of post-operative H. F. burns)
Unit should have Audio Visual Patient plate Error Monitoring System.
Unit should Have at least 3 monopolar coagulation mode.
Monopolar Coagulation Should consist Spray for Non-contact Coagulation, Fulgurate for under water coagulation, Desiccate/Force for open..
Unit should have at least Three Bipolar Mode including Precise,Standard and macro.
Unit should Have Facility to use monopolar and bipolar function without Switch over.
Unit should have simultaneous coagulation facility in monopolar coag.
Unit should have HF leakage monitoring system.
Unit should have Time-out Facility to prevent accidental activation
OUTPUT WAVEFORMS: Bipolar Precise - more than 300 kHz sinusoid Standard - more than 300 kHz sinusoid Macro - more than 300 kHz sinusoid
Monopolar Cut Low - more than 300 kHz sinusoid. Similar to the Pure Cut mode except the maximum Voltage is limited to lower value. Pure - more than 300 kHz sinusoid Blend - more than 300 kHz sinusoid bursts of sinusoid, recurring at 27 kHz intervals. 50% duty cycle envelope.
Monopolar Coag Desiccate - more than 300 kHz sinusoid repeated at 39 kHz, 8% duty cycle Fulgurate - more than 300 kHz sinusoid damped sinusoidal bursts with a repletion frequency of 30 or 57 kHz into 500 ohms. Spray - more than 300 kHz sinusoid damped sinusoidal bursts with a randomized repetition centered at 28 KHz Frequencies include 21 kHz <35 kHz.
Output is further modulated by a random 250 Hz envelope with a variable duty cycle.
Output power changes by less than 15% of 5 watts, whichever is greater as the line Voltage varies from 104-132 volts and 208-264 volts (at rated load).
<b>Accessories</b> <ul style="list-style-type: none"> <li>• Ruber Silicone/split T type patient plate (pediatric and adult) – 2 each</li> <li>• Monopolar forceps with hand control with accessories</li> <li>• Bipolar forceps (straight long, straight short, bayonet) with accessories with non-stick coating.</li> <li>• Double paddle foot switch with cable</li> <li>• Bipolar foot switch</li> </ul> <p>Power cord to connect to diathermy machine (if not in build) able to fit in Indian type of electricity socket</p>
The Equipment should be US FDA or European CE approved.

**6. Surgeons Operating Stool – Adjustable**

1. It should have the provision of hands-free height adjustment by way of foot pedal adjustment with hydraulic pump adjustment which is fitted in column of the chair.
2. The Foot pedal should have up movement when pressing down on pedal and down movement on single press & hold of pedal.
3. The pedal should be placed near the base for comfortable movement.
4. The Chair column should be sturdy with minimum 3 pronged sturdy base covered with ABS ergonomic cowling protector, each of the legs (minimum 3) having imported twin wheel 50mm db castors.
5. The breaking mechanism should be placed on the center leg on the ABS cowling protector with one pedal push system for brake & release.
6. It should have adjustable backrest for up & down movement with ergonomic screw mechanism
7. It should have swivel arm rests which may also be removable and can be locked with screw mechanism adjustment.
8. The chair should have rocker pedal swivel locking & the seat should be saddle Seat design for comfort during long operations.
9. The seat backrest & cover should be covered with high grade material which should be easy to clean & disinfect.
10. The height adjustment from the seat to the floor should be – 19 inches to 27 inches.
11. Should be European CE or US FDA approved.

## **7 High Definition Laparoscopy System**

### **1. Specifications for Full High Definition Digital Camera**

**Qty-1**

- **The system should have following features:**

- It should have Pure digital signal with high definition video of 1920x1080p (min) native resolution and progressive scan technology both on camera head and console
- It should be compatible with Aspect ratio of 4:3 and 16:9
- The system should have Digital and Optical Zoom to enhance the quality of Image size & cross specialty standardization of the camera system, regardless of the telescope used.
- Digital zoom, white balance control and two peripheral controls on camera Head
- Integrated Gain/Shutter/Enhancement with automatic brightness control
- Video Outputs: two DVI, one SVHS and one (optional) direct fiber optic output
- The system should automatically optimize all settings. The system should be ready-to-use as soon as it is connected to the camera control unit.
- The system should be Menu driven, thus allowing the surgeon to program the camera head functions as per the surgical needs & requirement.
- Should be USFDA or European CE approved.

- **Technical Specifications:**

- **Image System:** 1/3" Progressive Scan CCD
- **Pixels** 1920 X 1080p pixels per chip (min)
- **Camera Head Weight** 150-250 Gms.
- **AGC:** Microprocessor controlled
- **Signal-to-noise ratio** 65-75 dB
- **Video output:** S-video signal
- Digital Video Interface
- **Power Supply** 100-240 VAC, 50/60HZ

### **2. High Resolution Monitor**

**Qty-2**

- The system should have:
- HDTV display in original 16: 9 HDTV format.
- 1080 p/ 50 & 1080 p/60 displays possible.
- Dripwater protected , dustproof housing.
- LED crystal display.
- Max. Resolution of 1920X1080.
- Desk top with pedestal.
- Should have the facility of PIP mode.
- HD medical grade Monitor with screen diagonal "26",
- Aspect Ratio 16:9 HD format
- Brightness : 400 cd/m<sup>2</sup>
- Maximum viewing angle : 178° vertical
- Contrast ratio: 1000 : 1
- Reaction Time – 8ms
- Rated power : 115 watts

- Power Supply 100-240 VAC
- Screen Dimensions : 673 x 418 x 88mm
- **Video Inputs** : 2\* DVI , 2\* 3G SDI, 1\* S Video, 1\* SOG, 1\* RGB/VGA, 1\* RS 232, 1\* RJ 45 Interface.
- **Output:** 1\* DVI , 1\* 3G SDI, 1\* S-Video
- Accessories External 24VDC Power Supply, Mains Cord, Pedstal.
- Certified to : EN 60601-1, protection class IPX 1
  
- Should be USFDA or European CE approved.

**3. LED Light Source** **Qty 1**

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- The system should have:
- 300 W
- 220 Volts ,
- Light Engine: Red, Green & Blue LED's
- Increased patient safety & added protection in OR with safelight technology
- Intuitive simple user interface with LCD touch screen
- Stand by Mode
- Universal Jaw Assembly to adapt any make of Fiber Optic Cable
- More than 5000 Hours bulb life
- Light intensity adjustment continuously adjustable from 0 to 100% manually
- Should be USFDA or European CE approved.

**4. Fiber Optic Light Cable** **Qty-2**

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- Size should be diameter > 3.5mm, length 300 cm

**5. Insufflator:** **Qty 1**

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- **Flow rate 35- 45 Liter/mints**
- .High flow with LCD display
- Microprocessor controlled & Software driven for upgradeability
- Soft approach pressure control for safe recovery of abdominal pressure
- Should have Neonatal mode & visual and audible alarms with min 0.1 L flow rate
- Internal leakage detection capability
- Integrated Gas heating
- Having internal venting system for safety
- Should have video on screen display
- Unit should include heated tubing, hose & yoke

- Should be able select either central supply (4.5 kg/cm<sup>2</sup>) input pressure from central supply as well as direct connection to high pressure co<sub>2</sub> cylinder and should indicate the right inlet pressure of co<sub>2</sub> gas supply of front panel of machine.
- Should be USFDA or European CE approved.

**6. Laparoscope: Qty-1 Each**

- Wide Angle Full Screen, Autoclavable, Forward-Oblique and lateral scope
- Optimal centre-to-edge resolution for enhanced picture quality
- Angle of view: 30° and 0° of 10mm diameter 1 each
- 5 mm diameter 30 degree 1
- Length 30 cm
- Fiber optic light transmission incorporated
- Standard ocular window for coupling the camera head
- Scratch resistance sapphire coated tip lens
- Should be USFDA or European CE approved.

**7. High Definition Digital Documentation System (Recorder System) Qty -1**

- The system should have:
- High Definition Digital Documentation System (Recorder System)
- Should be real time, MPEG 2 HD, 1or 2 compression engine with full IBP encoding
- Should have video inputs minimum 2 nos. S-Video, 2 nos. Composite, 1 XGA (1024 X 768) and 1 High-Definition (1280 X 1024).
- Should have video outputs S-Video, Composite, DVI & XGA (1024 X 768, 1280 X 1024, and 1600 X 1200)
- Should be capable of Progressive scan image capture: Analog (640 x 480), Hi-Res (1024 X 768), and Hi-Def (1280 X 1024)
- Should have Stereo audio Input
- Should have Disc Capacity of 250 GB/1 Tera bite
- Should have touch screen (min 10”) control panel interface
- Multi session disc recording capability

- Should support file formats for Images: Bitmap (BMP), JPEG, JPEG2K, Tagged Image File Format (TIFF) Videos: MPEG-1, MPEG-2, and MPEG-4
  - Should have CD-R, DVD-R, DVD+R (single session), DVD+RW Disc Recording Formats
- Real time Broadcasting facilities over internet in HD formats should be there
- Should be USFDA or European CE approved.

## 8. INSTRUMENTS & ACCESSORIES FOR LAPAROSCOPY SET

<p><b>Trocar &amp; Cannula:</b> Cannula size: <b>11 mm diameter</b>; should have multifunctional valve and automatic valve to prevent damage of sharp instruments. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the canula should be 100-110 mm.</p>	<b>03</b>
<p><b>Trocar &amp; Cannula:</b> Cannula size : <b>5mm diameter</b>; should have multifunctional valve and automatic valve to prevent damage of sharp instruments and 18quipme tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the canula should be 100-110 mm.</p>	<b>04</b>
<p><b>Veress Needle:</b> Veress needle of working length 13 cm with luer lock.</p>	<b>02</b>
<p><b>Reducer</b> 11/5 mm</p>	<b>02</b>
<p><b>Grasping forceps-</b> Babcock , Double action jaws , rotating with connector pin for unipolar coagulation, size 5mm, length 33-36cm, dismantling facility</p>	<b>01</b>
<p><b>Grasping Forcep Fenestrated:</b> Atraumatic serration, fenestrated, grasping forcep with unipolar connection, insulated sheath, handle without ratchet. Should be dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm.</p>	<b>01</b>
<p><b>Grasping Forcep Fenestrated curved Fundus grasper:</b> Atraumatic, fenestrated, curved grasping forcep with unipolar connection, insulated</p>	<b>01</b>

sheath, handle without ratchet. Should be dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm	
<b>Bowel Grasping Forcep:</b>  Bowel Grasper fenestrated, size: 5.0mm, length 5-36cm, handle with ratchet, insulated shaft.	<b>02</b>
<b>Unipolar curved Maryland dissecting and Grasping Forcep:</b>  Kelly curved dissecting and grasping forceps insulated, atraumatic, working length 36 cm, size: 5mm,dismountable into handle, insert and working tube. Handle without ratchet.	<b>02</b>
<b>Insert Forcep Unipolar:</b>  Insert forcep only Maryland type curved atraumatic jaw compatible with main Kelley curved dissecting forceps.	<b>01</b>
<b>Unipolar curved Right angle dissecting and Grasping Forcep:</b>  Kelly curved dissecting and grasping forceps insulated, atraumatic, working length 36 cm, size: 5mm,dismountable into handle, insert and working tube. Handle without ratchet.	<b>02</b>
<b>Tooth Grasping Forcep;</b> Grasping forceps – toothed 2x 3 teeth, Double action jaws , rotating with connector pin for unipolar coagulation, size 5mm, length 33-36cm, dismantling	<b>02</b>
<b>Grasping forceps- Allis</b> , Double action jaws , rotating with connector pin for unipolar coagulation, size 5mm, length 33-36cm, dismantling facility	<b>01</b>
<b>Scissor curved Unipolar:</b>  METZENBAUM curved scissor, length of blade 12mm, connection for unipolar HF cable, dismantable into insert, tube and handle. Working length 36 cm, size: 5mm, handle without ratchet.	<b>02</b>
<b>Hook Scissor</b>  Hook scissor, with connection for unipolar HF cable, dismantable into insert, tube	<b>01</b>
<b>L Hook HF:</b>	<b>02</b>

L-shaped hook dissector with unipolar HF connection.	
<b>J Shape Hook -5 mm ,33 cm monopolar</b>	<b>02</b>
<b>Debakay Forceps- 5 mm,33 cm</b>	<b>01</b>
<b>Alligator jaw forcep, 33cm</b>	<b>02</b>
<b>Spatula/Blunt HF dissector:</b> Spatula/Blunt dissector with unipolar HF connection	<b>01</b>
<b>Single action claw forceps, 10 mm</b>	<b>01</b>
<b>Spoon Forcep:</b> Retrieval of foreign body/stones forcep, size 10mm without ratchet	<b>01</b>
<b>Heavy Duty Robust Bipolar Forcep</b> length: 36cm, 5 mm rotating dismantable, preferably wide jaw with spare insert and handle. Suitable bipolar HF cable 2 Nos. to be included along with it.	<b>01</b>
<b>Bipolar HF Connecting cable</b>	<b>04</b>
<b>Clip Applicator:</b> Medium Large clip applicator dismantable rotating size: 10mm, length 36cm, for Titanium clips with ratchet to lock the jaw holding the clip.It should be compatible with more than one brand.	<b>01</b>
<b>Clip Applicator:</b> Large clip applicator dismantable rotating size: 10mm, length 36cm, for Titanium clips with ratchet to lock the jaw holding the clip. It should be compatible with more than one brand.	<b>01</b>
<b>Haemolock clip applicator 10 mm size</b> . It should be compatible with more than one brand	<b>1</b>
<b>Haemolock clip applicator 5 mm size.</b> It should be compatible with more than one brand.	<b>1</b>
<b>Washers</b> , For 5 & 10 mm cannula and reducers	<b>01</b>
<b>Two Way Suction irrigation cannula, size:</b> 5mm&10mm each with special handle with trumpet control for irrigation and suction with silicon tubing.	<b>01</b>
<b>Puncture Needle, size: 5mm, length 36cm</b>	<b>01</b>
<b>Needle Holder:</b> Macro needle holder with tungsten carbide insert, ergonomic pistol handle, with disengageable ratchet, jaw curved to left, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.	<b>02</b>

<b>Fan retractor:</b>  Fan retractor with simple opening of the fan by axial movement of the outer sheath, dismountable and distendable, size: 10mm, length: 36cm	<b>01</b>
<b>Nathanson Liver retractor;</b> Set of four sizes (45, 55, 78, 95 mm), sandblasted to eliminate light reflection.	<b>01</b>
<b>Unipolar HF Cable:</b>  Unipolar HF cable suitable to connect with forcep and electrosurgical unit.	<b>02</b>
<b>Myoma holding screw, 5 mm diameter and working length 30 cm</b>	<b>01</b>
<b>Colpotomiser –</b>  11 mm, with insulated ball-shaped sphere, $\varnothing$ 40 mm and 35 mm consisting of Automatic Valve	<b>01</b>
<b>Knot pusher and Knot tier.</b> 5 mm diameter, working length of at least 30 cms. For knotting	<b>01</b>
<b>HP Hose:</b>  Suitable high pressure hose pin index to connect the gas to insufflator, length : 1.0 meter.	<b>01</b>
<b>All instruments Should be USFDA or European CE approved</b>  <b>Their should be provision for prior demonstration in AIIMS Jodhpur</b>	
<b>CO2 Cylinder: D type----with hose pipe and regulator and connector</b>  30 Kg. Carbon Dioxide bottle with pin index connection with wrench	<b>02</b>
<b>Suitable Autoclavable plastic tray double tray for sterilization and storage for hand instruments of minimum 20 hand instruments preferably from OEM.</b>	<b>04</b>
<b>Sterlization/Disinfection Tray:</b>  Disinfection/Sterlization tray with sieve tray to lift. Size: 27"x7"x5"(LxBxD)	<b>01</b>
<b>Formaline Chamber:</b>  Formaline Chamber made of Virgin Acrylic 4.5mm thickness; size:26"x8"x8"(LxBxH)	<b>01</b>

with three tray, for sterilizing the laparoscope, preferably with three tray Indian make.	
<p><b>UPS 2.0 KVA:</b></p> <p>UPS – 2.0 KVA off line with One hour backup time( at 1200 Watts real load) with SMF Batteries. Should be able to work on wide input range between 160-270 VAC at 22frequency between 50Hz <math>\pm</math> 2Hz, Should use PWM technology with power conversion with single transformer arrangements with an output of 220VAC <math>\pm</math> 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. ISI/CE approved good quality Indian make.</p>	<b>01</b>

**Specification for Suction and Irrigation Device for Laparoscope Set**

<p><b>SUCTION &amp; IRRIGATION DEVICE:</b></p> <p>Compact suction and irrigation unit having Irrigation pressure not less than 400mmHg &amp; Suction pressure not less than (-0.75mmHg). The unit should be supplied with 1.5 Litre glass bottle with bottle cap and stand; The unit should be supplied with 1.0 Litre irrigation bottle sterilizable in autoclave with bottle cap attachment to connect tubing. The unit should be supplied with reusable irrigation and suction silicon tubing set 2 Nos. each.</p> <p>Should be IEC 601-1, CE according to MDD.</p>	<b>01</b>
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**ANCILIARY EQUIPMENT**

- |  |        |
|--|--------|
| 1. Monopolar and bipolar cautery cable.  | 2 each |
| 2. Silicon gas tubing with valve system. | 2      |

**6. Video Trolley: 2 for each set**

**Suitable Medical Grade video trolley to be supplied for mounting equipments having minimum three self in addition to with one drawer, with antistatic wheel casters, front lockable, high grade of electrical insulation and earth protection. 5 Ampere socket, 10Nos, inbuilt with trolley to connect all electronic devices. CO2 bottle stand should be integrated with trolley. Potential equalization connection to be provided at least 8 points. Preferably from OEM.**

## **9. Specification for Micro Drill and Saw System**

### **Specifications for the Micro Drill and Saw System**

#### **1. Console-----01**

Should have Software upgradeable Provision

Should have touch screen display control for incorporating multi-functions into systems

Outputs should represent in digital figures or in graphic charts

With inbuilt irrigating system

Supply 220- 240V only 50-60Hz

Should be able to identify different handpieces with display on console

Should have function of controlling brightness, contrast and alarm volumes on the console

Ability to recognize & accept 02 two handpieces at the same time

Able to change the setting of the BRAKING; Speed to provide hard or soft brake and acceleration of the handpiece

Torque sensing feedback capability

Should be programmable as per surgeon preference

Should be able to store user setting for different surgeries

Colour Display

On Screen Help

#### **2. Footswitch-----01**

Should have fully programmable footswitch as user need

User should be able to control following functions via footswitch

Forward

Reverse

Oscillation

Select handpiece

Irrigation Control with Increase/decrease water flow rate

Switch over to high/ low speed

Increase or decrease speed (Accelerator type for accurate speed control)

#### **3. Drill Handpiece-----01**

Maximum Speed not less than 60000 RPM

Should accept straight, angled attachments and contra-angle attachment

Should have facility of hand controlled hand switch also

Should be able to mount accessories/ attachments without usage of any tools

DC brushless motors

#### **4. Attachments for the Drill-----01 Each**

Angled Long

Angled Medium

Straight Medium

Straight Long

#### **Burs for the Attachments**

Assorted Tungsten Carbide Cutting & Diamond from 1 mm to 7 mm

10 Burs of each size

**5. Micro saws-----01 Each**

**Sagittal Saw**

Maximum speed of 23000 cpm  
Snap-lock assembly and disassembly of all attachments  
Maintenance free DC brushless motor

**Oscillating Saw**

Maximum speed of 22000 cpm  
Snap-lock assembly and disassembly of all attachments  
Maintenance free DC brushless motor

**Reciprocating Saw**

Maximum speed of 18000 cpm  
Snap-lock assembly and disassembly of all attachments  
Maintenance free DC brushless motor

**Assorted Blades for Sagittal, Oscillating and Reciprocating Saws**

**All sizes( Short, Medium, Long in Both Narrow and Wide Variant)- 5 each**

**6. Wire and Pin Driver-----01**

Maximum speed of 1500 rpm  
Trigger control for variable speed control on the handpiece.  
Cannulated for use with wires and pins.  
Forward/Reverse and oscillation mode controls on the handpiece.

**7. Pin Collet for Universal Driver-----01**

**8. Jacobs Chuck with key-----01**

**9. Wire Collet of compatible and suitable diameter-----01**

**10. Connecting cord-----02**

10ft long, 3/8" diameter flexible electrical connecting cord.  
Dot-to-Dot type push-pull connectors at both ends.  
Autoclavable

**11. Compatible Irrigation tubings-----20**

**Instruments must be ISO/EN ISO/BS-EN-ISO certified and copy should be enclosed**

**Copy of the European CE / US FDA certificate must be attached.**

**All the motors should be maintenance free D.C. brushless motors**

**Should have operation from both hand switch and foot switch  
All Attachments, handpiece etc should be sterilizable through Steam and Flash Autoclave.  
Prior demo to be provided if needed.**

## **10. Omnitract Retractor**

### **Omni-Tract self-retaining Surgical Retractor System with its attachments**

Should have the following technical specifications and components-

#### **I - BF200 Fast System Upper Abdominal Retractor System**

- A- 2 Omni-Clamp Sterile Field Post, Double Joint
- B- 1 Standard Cross Bar
- C- 1 Hinged Cross Bar
- D- 2 Angled Side Arm, 8" x 18" (20.3cm x 45.7cm)
- E- 1 Doherty-Harrington Retractor Blade, 5 1/2" x 3 1/2" (14cm x 8.9cm)
- F- 2 Sternal Retractor, 3" x 3" (7.6cm x 7.6cm)
- G- 2 Mayo Swivel Retractor, 3 1/2" x 2 3/4" (8.9cm x 7cm)
- H - 1 Blade Holder, 9" (22.9cm)
- I - 1 Malleable Swivel Retractor, 2" x 6 1/2" (5cm x 16.5cm)
- J - 1 Malleable Swivel Retractor, 3" x 6 1/2" (7.6cm x 16.5cm)

#### **II - UF100 Fast System Pelvic Retractor System**

- A- 1 Extension Arm 20" (51cm)
- B- 4 Malleable Swivel Retractor, 3/4" x 2" (1.9cm x 5cm)
- C- 4 Malleable Swivel Retractor, 3/4" x 3" (1.9cm x 7.6cm)
- D- 4 Malleable Swivel Retractor, 3/4" x 4" (1.9cm x 10.2cm)
- E- 1 Posterior Swivel Retractor, 1 3/4" x 3" (4.5cm x 7.6cm)
- F- 1 Posterior Swivel Retractor, 1 3/4" x 4" (4.5cm x 10.2cm)
- G- 1 Anterior Swivel Retractor, 1 1/2" x 3" (3.8cm x 7.6cm)

## **11. Ultrasonic Cutting Device**

### **Technical Specification of Combined Generator for Ultrasonic Cutting and Coagulation and advanced RF Energy device for Open and Laparoscopic Surgery**

- System should have a universal connector to connect Ultrasonic energy and Advanced RF energy instruments.
- System should have automatic instrument recognition.
- System should be European CE or US FDA approved.
- System should have a touch screen display for fast and setup, operation and on-screen diagnostics.

- System should have a high-resolution display with wide viewing angles.
- System should have the ability for software updates via USB memory stick.
- System should be a single generator that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing
- System should have a potential equalization terminal for compatibility with other medical systems requiring such connections
- System should conform to the following international standards EN (IEC) 60601-1, EN (IEC) 60601-1-2, EN (IEC) 60601-2-2, EN (IEC) 60601-1-8
- System should provide Class 1 protection against electric shock
- System should have a single footswitch for operating ultrasonic energy or advanced RF energy instruments
- System should have the ability to select handswitch or footswitch activation or both for Ultrasonic and advanced RF energy instruments and the ability to change selection during use
- System should have English language as default
- System should not have minimal lateral thermal spread more than 1 mm.
- System should not have an auto switch off mechanism.
- System should have standby mode to ensure safety.
- System should come equipped with system diagnostics and troubleshooting guide to pin point any problems in the systems.
- System should have onscreen warning display system for generator overheating, generator software upgrade, handpiece errors and instrument errors
- System should be able to power ultrasonic energy instruments with 55.5 KHz frequency and have the ability to power ultrasonic energy instruments in the frequency range of 30-80 KHz in future
- The hand piece for the system should come with an inbuilt transducer.
- System should be compatible for open surgery and for laparoscopic surgery.
- System should be compatible with both 5mm and 10mm instruments.
- System should have atleast 5 power settings levels with power level display for ultrasonic energy instruments.
- System should be able to power energy instruments with microprocessor controlled bipolar electrosurgical radiofrequency technology with a quasi-sinusoidal forced impedance output.
- System should be equipped with smart advanced RF energy technology to measure the tissue impedance and control the power delivery.
- System should be equipped with advanced RF energy technology that can simultaneously seal and transect vessels up to and including 7mm, large tissue pedicles and vascular bundles.
- System should be equipped with advanced RF energy technology that provides temperature controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius.
- System should have Advanced RF Energy hand instruments with a unique electrode configuration to minimize the lateral thermal spread.
- System should have Advanced RF Energy hand instruments with technology to deliver high compression uniformly across seal area.

- System should have Advanced RF Energy hand instruments that provide tissue / vessel seal strength to withstand bursting pressure of 7 times the systolic pressure.
- All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues.
- System should be able to power advanced RF energy hand instruments of 5mm shaft diameter for both open & laparoscopic procedures with round tip (5mm tip width) in the following shaft lengths (14cm, 25cm , 35cm & 45cm) and should be both hand & foot activated.
- Systems should be able to power ultrasonic energy hand instruments of 5mm shaft diameter for both open & laparoscopic procedures with the following specifications
- System should be USFDA or European CE approved.

Open Surgery Instruments:

1. 9cm shaft, curved, tapered tip for precise dissection, seals 5 mm vessels, as well as lymphatic with 16 mm active blade & 240-degree activation, triggers support multiple hand positions.
2. 17cm shaft, curved, tapered tip for precise dissection, seals 5 mm vessels, as well as lymphatic with 16 mm active blade & 240-degree activation, triggers support multiple hand positions.
3. 5mm Hand Activated Curved Coagulating Shears capable of sealing blood vessels upto 5mm in diameter, 23 cm shaft length, ergonomic handle
4. Curved Blade having telescoping shaft (10cm-14cm) with integrated hand activation control buttons.
5. Dissecting Hook having telescoping shaft (10cm-14cm) with integrated hand activation control buttons.
6. 18cm shaft hand activated straight coagulating shears capable of sealing blood vessel upto 5mm.
7. Combination Hook Blade, 10cm long

Laparoscopic Surgery Instruments:

1. 5mm Lap Hand Activated Curved Coagulating Shears capable of sealing blood vessels upto 5mm in diameter, 36 cm and 45 cm shaft length, ergonomic handle.
2. 5mm Lap Dissecting Hook, 32 cm long.

• **System should comprise of the following**

**Hardware:**

- 1 Generator
- 2 Footswitch & Cable

**Accessories:**

- 1 Handpiece (Transducer)
- 2 Handpiece (Blue)
- 3 Generator Cart
- 4 Adaptors for ultrasonic and advanced RF energy instruments

**12.LIST OF INSTRUMENT FOR BASIC SURGICAL PROCEDURES**

S. No.	Instrument name	Qty
1	Forster Sponge Holder 18 cms	118
2	Bergmann sponge forceps 24cm	78
3	Crile wood needle holder15 cm	12
4	Halsted Mosquito haemostatic forceps curved 12 cm	4
5	Halsted Mosquito haemostatic forceps straight 12.5 cm	4
6	Halsted Mosquito haemostatic forceps curved 14 cm	30
7	Allis tissue grasping forceps 15.5 cm	2
8	Babcock tissue grasping forceps 15.5 cm	2
9	Backhaus towel clamps 13cm	448
10	Kidney dish170x100x35mm	60
11	kidney dish250x140x40 mm	36
12	scalpel no 3	42
13	scalpel no 4	42
14	scalpel no 3 and 4	36
15	scalpel no 7 k	24
16	Metzenbaum dissecting scissor curved 11.5 cm	2
17	Metzenbaum dissecting scissor curved 15.5 cm	2
18	Metzenbaum -Nelson dissecting scissor 20.5 cm	2
19	Mayo dissecting scissor straight 14.5 cm	2
20	Dissecting forceps 14.5 cm	20
21	Dissecting forceps 18 cm	36
22	Adson dissecting forceps 15 cm	6
23	Tissue forceps (single toothed )13cm	24
24	Tissue forceps (multiple toothed )14.5 cm	4
25	Tissue forceps (multiple toothed )18 cm	2
26	Lister sinus forceps 16 cm	12
27	Desjardins gall stone forceps 23 cm	1
28	Bakes gall duct dilator tip size 1 to 13 mm complete set	1
29	Gil-Vernet saddle hook 24 cm ,(breadth6mm)	4
30	Gil-Vernet saddle hook 24 cm ,(breadth15mm)	4
31	Langenbeck Mini retractor 16 cm (tip21x8mm )	72
32	Langenbeck retractor 22 cm (tip 50x11mm )	32
33	Langenbeck retractor 22.5 cm (tip 85x15mm )	24
34	Harington retractor 32.5cm (tip137x44mm)	16
35	Harington retractor 32.5cm (tip137x65mm)	30
36	Deaver retractor 18cm (tip 19mm)	12
37	Deaver retractor 30.5cm (tip 25mm)	15
38	Deaver retractor 31.5cm (tip 50mm)	9
39	Czerny retractor 17.2 cm	20
40	Morris retractar 25cm,( blade 7x4 cm)	48
41	Balfour -Standard abdominal retractor 20cm	6

42	Joll self retaining retractor 15.5 cm	4
43	Kelly dissecting and ligature forceps 18.5cm	28
44	Kelly dissecting and ligature forceps 21.5cm	8
45	S S Bowl 80x40mm	116
46	S S Bowl 116x50mm	42
47	S S Bowl 160x65mm	4
48	S S Bowl 147x65mm	24
49	S S Instrument tray 350x240x40mm	72
50	S S Instrument tray 470x320x50mm	48
51	Frazier Suction Cannula 19.5 cms, 5mm Dia	12
52	Mayo Safety Pin 14 cms	24
53	Rib Raspatory with Hollow Handle Right Curved	2
54	Rib Raspatory with Hollow Handle Left Curved	2
55	Rib Shear 23 cms Straight Tip	2
56	Giertz Stille Rib Shear 24.5 cms	2
57	Sauerbruch Rib Shear 26 cms	2
58	Wire Cutter 23 cms	2
59	Fistula Probe with eye and maleable	2
60	Varicose Vein Stripper	2
61	Lockhart -Mummery fistula probe curved 16.5 cm	2
62	Kelly Proctoscope 25x75mm	2
63	Kelly Proctoscope 21x50mm	2
64	Morgan self illuminating Proctoscope 17x65mm	1
65	Rudd haemorrhoidal ligator 27.5cm	2
66	Rings for haemoroidal ligator ( packet)	1
67	-Jackson Rectal biopsy Forceps	2
68	Ives-Fansler Anoscope 22x80mm	2
69	Haemorrhoidal ligator( with suction mechanism )	1
70	Van Buren Urethral Sound 27 cm Complete set	1
71	Hegar dilator all size ( one set ) 18.5 c m	1
72	Guyon Catheter Introducer 40 cm	1
73	Strauss penile clamp 12 cm	2
74	Satterlee Amputation Saw 29cm	2
75	Gigli wire with Saw handle wire length 50 cm	6
76	Skin Hooks	16
77	Dingman's mouth retractor (adult) complete frame including cheek retractor with tongue blades set	1
78	Dingman's mouth retractor (pediatric) complete frame including cheek retractor with tongue blades set	1
79	Jennings mouth gag 9 cms	1
80	Doyen's mouth gag	1
81	Ferguson's mouth gag	1
82	Doyen's Retractor 24-26cm, blade 6-7 x 8-9cm	4
83	Fritsch Retractor 24-26cm, blade 4.5-5.5 x 8-9cm	4
84	Langenbeck retractor 22 cm (blade 6-7cm x2-2.5cm )	4
85	Landon retractor, 19-21cm, blade 8-9 x 2-2.5cm	4

86	Deaver retractor 30.5cm (tip 38mm)	1
87	Lane Tissue Forceps 18-20cm	8
88	Ligature Scissors, 15-18cm	8
89	Skin hooks 16 cm / 6 and 2/8", sharp tip,	4
90	Langenbeck Mini retractor 16 cm (tip 12x6mm )	8
91	Kocher Langenbeck 21.5cm / 8 and 4/8", rectangular blade (80mm X16 mm, 55X11mm, 35X11mm)	12
92	Frazier Suction Cannula 19.5 cms, 2mm Dia	4
93	Cobbs dissector straight 15cm,22.5cm	4
94	Cobbs dissector curved 15cm,22.5cm	4
95	Charnley retractors	2
96	S.S. Tray rectangular with lid 15x12 inch	12
97	S.S. Tray rectangular with lid 10x12 inch	12
98	S.S. Drums (Large) 15x12 In	12
99	SS Drums 11x9 in	12
100	Cheate's forcep	30
101	Magill's forceps	6
102	Female metal catheter no. 14	1
103	female metal catheter no. 12	1
104	uterine sound curved malleable 29-30 cms	1
105	Sims bivalve speculum small	6
106	Sims bivalve speculum medium	6
107	Tubal seizing forceps 19-21 cm (8mm)	1
108	Tubal seizing forceps 19-21 cm (10mm)	1
109	Novak EB curette 24-25 cm	2
110	Uterine curette(blunt &sharp double ended 28-29 cm) 8x5	2
111	Uterine curette ( blunt & sharp double ended 28 - 29 cm) 10 x 7	2
112	Uterine curette (blunt & sharp double ended 28 - 29 cm) 14 x 9	2
113	Van doren cervical punch biopsy forceps with ratchet	2
114	Van uterine polyp forceps	1
115	Ovum forceps 24-26 cm 8mm	1
116	Ovum forceps 24-26 cm 10mm	1
117	myoma screw with T handle 17 cm	1
118	Leech wilkinson cannula small	1
119	Leech wilkinson cannula medium	1
120	Leech wilkinson cannula large	1
121	Auvarde vaginal speculum with detachable weight 75x43x40 mm	1
122	Sims uterine depressor double ended 24-26cm	6
123	cusco's speculum medium	6
124	cusco's speculum large	6
125	Sommers uterine elevating forceps 23 cm	1

1. Company should have relevant experience in successful execution of similar work in at least five Institutes of national importance and central or State government Institutions.
2. Company should have at least 5 years of operations at the date of submission of tender.

3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo should be arranged at the time of requirement.
5. Instrument quality should meet the international standard.
6. Company should have **ISO or CE Certification. Certificates should be provided along with the technical bid.**
7. Company should provide material certificates.
8. Material – Stainless Steel ( Instruments)
9. Material Grade- AISI 410 and 420 certified.
10. **Instruments should carry Ledger marking indicating the Manufacturer's name and Batch No. or Lot No.**

### **13. LIST OF INSTRUMENTS FOR ADVANCED SURGICAL PROCEDURES**

<b>S. No.</b>	<b>Instrument name</b>	<b>Qty.</b>
1	Derf Needle holder 12 cm	10
2	Crile wood needle holder 15 cm	10
3	Mayo Hegar needle holder 18.5 cm	10
4	DeBakey needle holder TC GOLD 18 cm	8
5	Mayo Hegar needle holder TC GOLD 16 cm	10
6	Masson needle holder TC GOLD 26.5 cm	10
7	Needle holder black handle	2
8	Ryder -vascular needle holder TC Gold 17.5 cm	2
9	Ryder -vascular needle holder TC Gold 12 cm	2
10	Halsted Mosquito haemostatic forceps curved 12 cm	60
11	Halsted Mosquito haemostatic forceps straight 12.5 cm	30
12	Halsted Mosquito haemostatic forceps straight 14.5 cm	30
13	Halsted Mosquito haemostatic forceps curved 14 cm	60
14	Halsted Mosquito haemostatic forceps straight 18.5 cm	30
15	Halsted Mosquito haemostatic forceps curved 18 cm	30
16	Kocher haemostatic forceps straight 16cm	12
17	Kocher haemostatic forceps curved 16cm	12
18	Kocher haemostatic forceps straight 20.5cm	12
19	Kocher haemostatic forceps curved 20.5cm	12
20	Mixer baby haemostatic forceps 13cm	12
21	mixter dissecting and ligature forceps 23 cm	12
22	Lawrence dissecting and ligating forceps 28 cm	12
23	Meeker dissecting forceps angled 28 cm	6
24	Allis -Baby tissue grasping forceps 13 cm	24
25	Allis tissue grasping forceps 15.5 cm	30
26	Thomas Allis tissue grasping forceps 20.5 cm	48
27	Babcock tissue grasping forceps 15.5 cm	12
28	Babcock tissue grasping forceps 17.5 cm	12
29	Babcock tissue grasping forceps 21 cm	12
30	Metzenbaum dissecting scissor curved 11.5 cm	6

31	Metzenbaum dissecting scissor curved 15.5 cm	12
32	Metzenbaum -Nelson dissecting scissor curved 20.5 cm	12
33	Metzenbaum dissecting scissor straight 14.5 cm	6
34	Metzenbaum TC GOLD dissecting scissor curved 14.5 cm	12
35	Metzenbaum TC GOLD dissecting scissor curved 20.5 cm	12
36	Metzenbaum -Fino TC GOLD dissecting scissor curved 14.5 cm	2
37	Mayo dissecting scissor straight 14.5 cm	12
38	Mayo dissecting scissor straight 17 cm	12
39	Mayo -Stille dissecting scissor curved 15cm	12
40	Mayo -Stille dissecting scissor curved 17cm	12
41	Dissecting forceps 12 cm	12
42	Dissecting forceps 14.5 cm	12
43	Dissecting forceps 18 cm	12
44	Adson dissecting forceps 15 cm	6
45	Adson dissecting forceps 12 cm Tc Gold Non tooth	6
46	Adson dissecting forceps TC GOLD 12 cm toothed	6
47	Adson dissecting forceps TC GOLD 15cm Non tooth	6
48	Waugh dissecting forceps 20 cm	6
49	Potts -Smith dissecting forceps TC GOLD 16 cm	12
50	Tissue forceps (single toothed )13cm	12
51	Tissue forceps (single toothed )16 cm	12
52	Tissue forceps (multiple toothed )12 cm	12
53	Tissue forceps (multiple toothed )14.5 cm	12
54	cushing dissecting forceps 17.5 cm	12
55	singley tuttle tissue forceps 23 cm	6
56	Tissue forceps (multiple toothed )18 cm	6
57	micro tissue forceps 15.5,0.8 mm	6
58	Graefe skin hook15 cm	8
59	Davidson scapula retracator 19 cm	2
60	Balfour -Standard abdominal retractor 20cm	3
61	Satinsky vascular clamp15.5 cm	4
62	Satinsky vascular clamp20 cm	4
63	Satinsky vascular clamp 26cm	4
64	Satinsky vascular clamp 28.5 cm	4
65	Kelly dissecting and ligature forceps 18.5cm	36
66	Kelly dissecting and ligature forceps 21.5cm	36
67	Kelly dissecting and ligature forceps23 .5cm	36
68	Frazier Suction Cannula 19.5 cms, 5mm Dia	6
69	Allison Lung Spatula 29.5 cms	2
70	Allison Lung Spatula 33 cms	2
71	Price Thomas Bronchus Clamp 22 cms	2
72	Lovelace Lung Grasping Forceps Straight 20.5cms	2
73	Lovelace Lung Grasping Forceps Angled 19 cms	2
74	Roberts Dissecting and Ligating Forceps Curved 22 cms	2
75	Crile Rankin Haemostatic Forceps Curved 16 cm	36
76	Dunhill Hemostatic Forceps Curved Hemostatic Forceps 18.5 cms	36

77	Dunhill Hemostatic Forceps Straight Hemostatic Forceps 18.5 cms	36
78	Mayo-Robson Intestinal Noncrushing Clamp 26 cms straight	12
79	Mayo-Robson Intestinal Noncrushing Clamp 25 cms Curved	12
80	Doyen Baby Intestinal Clamp Straight 13.5 Curved	2
81	Moyo robson Intestinal Crushing Clamp Straight 25.5 cms	4
82	Mayo robson Intestinal Crushing Clamp Curved 24.5	4
83	Payr Pylorus Clamp 21 cms	1
84	Payr Pylorus Clamp 34 cms	1
85	Cooley Suction Tip 31 cms, 10 mm tip	12
86	Watson Cheyne Dissector C Probe18cm	2
87	Watson Cheyne Dissector C Probe13cm	2
88	Molt Bone Currette Double Ended 19 cms	6
89	Finochietto 85x 65 mm Spread 175 mm	1
90	Periosteum Elevator Double Ended (Martin -Cushing) 17 cms	6
91	Frabeuf Periosteum Elevator 15.5 cms x 12.5mm width Curved Tip	6
92	Doyen Rib Raspatory with Hollow Handle Right Curved	4
93	Rib Raspatory with Hollow Handle Left Curved	4
94	Brunner Rib Shear 32 cms	2
95	Gluck Rib shear 21 cms	1
96	Giertz Stille Rib Shear 24.5 cms	1
97	Rib Approximator Baley Baby Rib Contractor 15.5 cms	2
98	Baley Gibbon Rib Approximator Long Claw 20 cms	4
99	Wire Twisting Forceps 19 cms TC Gold	4
100	Bone Nibbler Leksell-Stille 24.5 cms	1
101	Bone Nibbler Echilin 23cms	1
102	Heiss Right Angle Hemostatic forceps 20cms	6
103	Mixer Dissecting Forceps 29 cms	6
104	Mixer Dissecting Forceps 25 cms	6
105	Varicose Vein Stripper	1
106	Mayo -Blake Gall Stone forceps 21cm	2
107	Liston Bone cutting Forceps 17 cm	2
108	Liston -Stille Bone cutting forceps 28 cm	2
109	Cottle Bone File 21 cm	4
110	Needle Driver	2
111	Humby dermatome 32 cm	1
112	Lanes Bone Holding forcep 33 cm	2
113	Satterlee Amputation Saw 29cm	1
114	Gigli wire with Saw handle wire length 50 cm hook	6
115	Santulli Bull Dog clamp straight 7 cm	4
116	De bakey bull dog clamp straight 7.5 cm	2
117	De bakey bull dog clamp straight 8.5 cm	2
118	De bakey bull dog clamp straight 10 cm	2
119	De bakey bull dog clamp straight 12 cm	2
120	De bakey bull dog clamp curved 7.5cm	2
121	De bakey bull dog clamp curved 8.5 cm	2
122	De bakey bull dog clamp curved 9.5 cm	2

123	De bakey bull dog clamp curved 11 cm	2
124	Cooley aortic ligature clamp 25 cm	1
125	Debakey angled clamp 26 cm	5
126	Debakey angled vascular forcep 25 cm 2mm tip	3
127	Debakey straight vascular forcep 20 cm 2.7 mm	2
128	Reynolds vascular scissor 15.5 cm	2
129	Potts -Smith vascular scissor 19 cm standard 40 degree	2
130	Debakey angled scissor TC Gold 19 cm 45 degree	2
131	Cushing nerve hook 19 cm, 6mm tip	1
132	Ductos clamp	1
133	Goldmann - Fox Iris scissor TC Gold 13.5 cm	2
134	Iris needle holder	1
135	Mayo Hegar needle holder TC GOLD 20 cm	3
136	Bozemann/Wertheim needle holder Tc Tipped 20.5 cms	3
137	Bozemann/Wertheim needle holder Tc Tipped 24 cms	3
138	Micro needle holder without catch 15 cm straight	2
139	Constroviejo needle holder with catch , 14.5 cm	2
140	Hartmann Mosquito hemostatic forceps, curved, 9-11cm	12
141	Hartmann Mosquito hemostatic forceps, straight, 9-11cm	12
142	Spencer Well's artery forceps, curved, 14-16cm	12
143	Pean (rochester) Straight hemostatic forceps, 22.5 cm Curved	6
144	Micro scissor (Ti Tipped) 15 cm, curved	2
145	Micro scissor (Ti Tipped) 15 cm, straight	2
146	Mayo -Stille dissecting scissor (Tc Gold) curved,14.5 cm	4
147	Mayo -Stille dissecting scissor curved 17cm	4
148	Adson toothed microforceps 12 cm	2
149	Jeweller's microforceps straight 11 cm with 0.2mm tip	2
150	Dissecting forceps 30 cm	6
151	Dissecting forceps 23 cm	6
152	Pean Rochester haemostatic forceps straight 26cm	6
153	Zenker haemostatic forceps 28.5 cm curved	6
154	Metzenbaum -Nelson dissecting scissor curved 20.5 cm	2
155	Metzenbaum -Nelson dissecting scissor curved 28.5 cm	2
156	Reynold's dissecting scissors 18cm	4
157	S.S. Tray rectangular with lid 15x12 inch	12
158	S.S. Tray rectangular with lid 10x12 inch	12
159	Heaneys hystrectomy clamps 24 cm	6
160	Teale uterine volsellum 23 cm 3x4 teeth	2
161	Green armytage haemostatic forceps	2
162	Mayo Stille scissor curved 19.5 cm	2
163	Mayo Stille scissor straight 19.5 cm	2
164	Mayo stille scissor curved 21.5 cm	2
165	Mayo stille scissor straight 21.5 cm	2
166	Metzenbaum TC gold scissor curved 11.5	2
167	Metzenbaum TC gold scissor curved 18 cm	2
168	Metzenbaum TC gold scissor curved 31 cm	2

169	Mixer baby haemostatic forceps 18.5 cm	4
170	Micro mosquito haemostatic forceps 12 cm	4
171	Adson artery forceps curved 19 cm	6
172	Obwegeser wire catching forceps 19 cm	6
173	Perforated ss sterilization containers 300x300 mm	2
174	Perforated ss sterilization containers 470x300 mm	2
175	Perforated ss sterilization containers 600x300 mm	2

**SPECIFICATIONS**

1. The Instruments quoted should be of high quality and standard.
2. The Instruments should have European CE or USFDA certification.
3. Copy of the European CE certificate or USFDA certificate should be enclosed.
4. The Instruments must be ISO certified ISO 7153 and copy should be enclosed.
5. The Instruments should preferably have a certificate of Primary Passivation Process.
6. The Inserts of Tungsten carbide instruments should be Laser welded not soldered.
7. Each instrument should have the following information printed on it
  - a) Article No.
  - b) Manufacturer's Name
  - c) Country of Origin
  - d) A bar code / QR code that should give the following information for easy stock management:
    - 1) Part No. and Instrument name
    - 2) Date of Production / Lot No.
8. Sterilization container should be quoted along with instrument set.
9. Sterilization container and instruments should be of the same parent company.
10. The sterilization containers should meet International standards and approved for steam sterilization procedures to EN 285: 2008 and validated acc to ISO 17665 Part: 2006.

**14 LED HEAD LIGHT FOR SURGERY**

## Specifications for led head light

1. LED Head light to be used for surgery and in operating theatre.
2. Should have a built in Lithium Polymer pack with battery backup of atleast 3 hours.
3. No cables/cords should be required during actual use.
4. Light weight and balanced with high level of comfort for the wearer.
5. Can be charged by wall or plug in transformer.
6. Should have a built in LED charge status indicator.
7. Direct operation should be possible while charging the battery.
8. Battery pack should be user replaceable.
9. Spare battery pack (one) should be provided with the light.
10. Light should be European CE or US FDA approved.

## 15. Binocular Loupes with LED Loupe Light

High Resolution 2.5X Binocular loupes which give bright, colour corrected crisp image with super wide at least 130mm view and super deep view at least 180mm.

The working distance should be 340 -420mm with individual adjustment (Left & right side optics) of Inter Pupillary adjustment.

Optics should be super light with weight not more than 42 grams and mounted on spectacle which is light in weight approx 25grams

with ear temples mouldable to take any shape of head.

The Loupes should have option of customisation also and LED light should also be fitted along with loupes

light intensity of 50,000 lux at 30cm distance along with 6V Li ion rechargeable battery

Battery life lasting for 17 hrs when fully charged and also shows charge level indicator supplied in a case which can be attached to belt

Equipment should be U\$FDA or European CE approved / certified.

Annexure-C

Inviting of sealed quotations for Common Surgical Equipments at AIIMS,  
Jodhpur

**TECHNICAL BID**

Name of Firm/Contractor/Supplier	
Complete Address & Telephone No.	
Name of Proprietor/Partner/Managing Director/Director.	
Phone & Mobile No.	
Name and address of service centre near by Jodhpur.	
Whether the firm is a registered firm Yes/No (attached copy of certificate)	
PAN No. (enclose the attested copy of PAN Card)	
Service Tax No. (enclose the attested copy of Service Tax Certificate)	
VAT No. (enclose the attested copy of VAT Certificate)	
Whether the firm has enclosed the Tender Fees as per Annexure 'A'	
Whether the firm has enclosed the Bank Draft/Pay Order/Banker's cheque as Earnest Money Deposit as per Annexure 'A'	
Whether the Firm/Agency has signed each and every page of Tender/NIT	
Please provide full list of consumables with rates.	
Any other information, if necessary	

Authorized signatory of the bidder with seal.

**Annexure-D**

**Financial Bid**

(To be submitted on the letterhead of the company / firm separately for each item)

<b>S.No.</b>	<b>Item Description</b>	<b>QTY</b>	<b>Rate</b>	<b>Vat/ Tax</b>	<b>Amount</b>

<b>CMC Charges as applicable (excluding Service Tax)</b>	
1 <sup>st</sup> Year	
2 <sup>st</sup> Year	
3 <sup>st</sup> Year	
4 <sup>st</sup> Year	
5 <sup>st</sup> Year	

1. I/We have gone through the terms & conditions as stipulated in the tender enquiry document and confirm to accept and abide the same.
2. No other charges would be payable by the Institute.

(Authorized signatory of the bidder with seal)