Sealed Quotation/Bids (one Technical and one Financial separately) are invited from Manufacturer or their authorized dealers for the following items which should be sealed by the tenderers in separate covers duly super scribed and both these sealed covers are to be put in a bigger cover, which should also be sealed and duly super scribed, on the terms and conditions as mentioned on page 02.

Quotation should reach this office on or before 14/08/2019 by 12:00 Noon. will be open on 16/08/2019

**Specification for Saline Plasma Bipolar, Vessel sealing & Electrosurgical Diathermy**

1. Unit should have microprocessor controlled tissue feedback technology (Microprocessor controlled 6SENSE technology with Sampling rate above 4000 sense/second)
2. It should adjust power level automatically depending on tissue type.
3. Unit should have Combo Generator Technology having conventional ESU, Saline Plasma Bipolar Module and Vessel Sealing System.
4. Unit should suitable to do TURP in Saline with Monopolar TURP Set with Isolated Bipolar Sheath.
5. Unit should have Dedicated Vessel Sealer output with FIVE different sealing level programs.
6. Unit should have the capacity to seal the tissue vessel up to 7mm in diameter.
7. Sealing output should be in pulse mode sinusoidal current to control thermal spreading less than 3mm.
8. Unit should give an alarm after completion of sealing cycle & auto stop power.
9. System should give an alarm if the tissue is not hold properly in sealer mode.
10. Unit should have independent display & activation for Bipolar Cut & Bipolar Coag when operate in Vessel Sealing Mode.
11. It should have digital display, which should indicate true power in bipolar mode and Level in seal mode.
12. Unit should supplied with 5 mm reusable/autoclavable instrument.
13. It should complete self testing during power on.
14. Unit should have error code function for fault conditions.
15. It should accept dual area and single area patient return electrode.
16. It should accept Disposable and as well as Reusable Patient Plate.
17. It should be upgradeable for Argon delivery module.
18. It should have at least THIRTY user programs, TEN User settable & TWENTY Presented Programs for different surgical procedures.
19. It should have Alarm facility after completion of bipolar coagulation.
20. Unit should operate from 180 V to 260 V without using external stabilizer.
21. It should have independent foot switch for Monopolar and Bipolar functions.
22. Product should be CE devices marked & 93/42/EEC Medical directive certified.
24. Unit with following Saline Plasma Bipolar technical specifications.
   A) Saline Plasma Bipolar Cut: 300 W, CF-1.5, 460 KHz.
   B) Saline Plasma Bipolar Coag: 120 W, CF-1.5, 460 KHz.
25. Unit with following Sealer Mode technical specifications.
   A) FIVE Level Seal: 150 W, at 100 Ohms, 4.2 Amp, CF-1.5, Vpeak-peak-280V, 460 KHz.
   B) Bipolar Cut/Macro: 120 W at 100ohms, 2.1 Amp, CF-1.5, Vp-p-370V, 460 KHz.
   C) Bipolar Coag/ Micro: 120 W at 100Ohms, 2.1 Amp, CF-1.5, Vp-p-170V, 460 KHz.
   D) Bipolar Coag Alarm: Gives audio indication when tissue gets coagulated reduces charring, tissue over coagulation & tissue sticking to forceps.
   E) Bipolar Cut: Macro mode can be effectively used for bipolar cutting with hooks & other cutting devices in laparoscopic surgery.

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26. Unit with following ESU (Diathermy) technical specifications.
   A) 4 Cut Modes:
   - LOW CUT: 300 Watt at 300ohms,
   - PURE: 300 Watt at 300ohms
   - BLEND: 200 Watt at 300ohms
   - Endo CUT: 300 Watt at 300ohms
   B) 4 Coag Modes:
   - SOFT: 120 Watt at 500ohms
   - FULGURATE HCF: 120 Watt at 500ohms
   - FULGURATE LCF: 120 Watt at 500ohms
   - SPRAY: 120 Watt at 500ohms

- Q 2 Bipolar Modes:
  - Micro Bip: 95 W at 100 Ohms, CF-1.5, 440 KHz
  - Macro/Bipolar Cut: 95 W at 100, CF-1.5, 440 KHz

- Q Bipolar Coag Alarm: Gives audio indication when tissue gets coagulated reduces charring, tissue over coagulation & tissue sticking to forceps.

- Q Bipolar Cut: Macro mode can be effectively used for bipolar cutting with hooks & other cutting devices in laparoscopic surgery.

27. Scope of supply (All following accessories should be reusable and autoclavable)

   A) ESU / Diathermy Section:
   1) Patient Plate return electrode with Cable, Rubber ................................................. 1No.
   2) Footswitch Single Paddle .......................................................................................... 1No.
   3) Footswitch Double Paddle ....................................................................................... 1No.
   4) Footswitching chuck Handle .................................................................................. 1No.
   5) Monopolar Hand switching pencil (Reusable). ......................................................... 1No.
   6) Bipolar Forceps, straight, 20cm, 1mm tip ............................................................... 1No
   7) Cord for Bipolar Forcep ............................................................................................ 1No.
   8) Universal Adaptor .................................................................................................... 1No.
   9) Set of Electrode ........................................................................................................ 1No.

B) Vessel Sealing System Section:
   11) Sealing Clamp Coated 23cm 5mm tip with Cable .................................................. 1No
   12) Sealer Handle 5mm with Cable ............................................................................... 1No
   13) Sealer Insert, Straight, Dia 5mm, 32cm ................................................................ 1No
   14) Sealer Insert, Maryland, dia5mm, 18cm............................................................... 1No

C) Saline Plasma Bipolar TURP Section:
   15) Lure Lock with RF Pole ........................................................................................ 1No
   16) Return RF cable ..................................................................................................... 1No

Terms & Conditions:

1. Make, Model, Rate, Warranty & GST detail MUST BE clearly mentioned in the quotations.
2. Manufacturer's Authorised dealer's certificate must be attached with the quotations/Tenders.
3. Cutting/over writing on quotations/tenders will not be accepted.
4. The firm must be registered with Directorate General of supplier and Disposals (DGS &D) or in Central purchase office A.M.U. Aligarh or MSME.
5. List of users for the quoted item with contact no. should be provided Photocopy of purchase order along with terms and conditions of contract received from any Govt/Public sector institution in last 03 years for supply of offered equipment must be enclosed with the price bid.
6. Installation and Commissioning will be the responsibility of the supplier & after sale service should be provided.
7. The Equipment should be US FDA/CE European approved product.
8. The Instruments/Equipment might be called for demo, and approval. It is sole discretion of the department to approve or disapprove the quality.
9. Comprehensive onsite warranty 05years & detail after sale service backup in warranty period must be clearly mentioned.
10. The Rate of CMC for 2years must be provided separately after warranty.
11. The payment shall be made against bill and satisfactory installation. No advance payment is possible.
12. The hospital reserve the right to reject any or all the tender/Quotations without assigning any reason or to allot full or part of supply to one or more firms.
13. Inclusive GST rates will not be accepted and tender/Quotations will be cancelled.
14. The rate must be quoted in Indian rupees and F.O.R JNMHC Hospital.
15. Warranty must be clearly defined to the points, about what will be covered during 05years of warranty.
16. Those companies/firms should apply whose head office in India/service centre especially in NCR Delhi.