## Technical Specification for Cautery Machine

Following are the minimum requirements. Products offered must meet these parameters herein.

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<th>Sr. No.</th>
<th>Technical specifications/ composition of tender enquiry</th>
<th>Compliance on each parameter with detailed substantiation how the offered product meets the requirement. (Simply writing as YES/Complied/As per BIS/CE/ISO terms is not allowed)</th>
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### Technical Specification for Cautery Machine

1. Microcontroller based isolated Electrosurgical Generator having both Monopolar and Bipolar outputs designed for all surgical procedures.

2. Smart generator should be able to monitor changes in tissue impedance continuously and adjusts power.

3. Monopolar outputs should have three cutting modes:
   - a. Low cut for delicate tissue or Laproscopic cases having maximum power of 300W.
   - b. Pure cut for clean, precise cut in general surgery having maximum power of 200W.
   - c. Blend mode for cutting with homeostasis having maximum power of 200W.

   All cut modes should be able to adjust output power depending on tissue density by less than 15% or 5W, whichever is greater.

4. It should have three Coag Modes with maximum power of 120W
   - a. Desiccate mode for low voltage contact coagulation suitable for Laproscopic and delicate tissue work.
   - b. Fulgurate mode for efficient non-contact coagulation in most applications.
   - c. Spray mode should have randomized spray effect of varying amplitude and frequency for coagulating large tissue areas with minimum depth of necrosis.

5. It should have three bipolar modes with maximum power of 70W
   - a. Precise mode have fine control of desiccation in delicate tissue.
   - b. Standard mode for applications at low voltage to prevent sparking.
   - c. Macro mode for applications on tissue with high
6. It should have patient plate monitoring 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.

7. The unit should have two hand switching and two Footswitch Monopolar outputs and one hand switching and footswitching bipolar output.

8. It should have membrane keyboard for power settings.

9. The unit should have individual digital display of power for Bipolar, Monopolar cut and Monopolar Coag.

10. The unit should not have RF Leakage current more than 150mA.

11. Accessories:
   - a. Monopolar Footswitch: 02 Nos.
   - b. Bipolar Footswitch: 01 No.
   - c. Reusable hand switching Pencil: 02 Nos.
   - d. Reusable Patient Plate: 02 nos.
   - e. Bipolar Forceps: 01 No.
   - f. Forceps Cord: 02 Nos.
   - g. Universal Adaptor: 01 No.

12. Two years of comprehensive warranty including bulbs should be provided along with technical support.

13. It should follow international Safety Standard and requirement with CE Certification or USFDA Approval.

14. Users list with the addresses and contact nos. to be provided.

15. Demonstration Compulsory.

16. Operating and service manual should be supplied.

17. Tropicalization: operating Temp. upto 40Deg. C;