# ***TECHNICAL SPECIFICATION FOR ELECTROSURGICAL UNIT***

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

| ***S.NO*** | ***Technical Specification*** | ***Remarks*** |
|---|---|---|
| 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 automatically. | |
| 3 | **Monopolar outputs should have three cutting modes:** | |
| | **a,** Low cut for delicate tissue orcases 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 | |
| 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 resistance | |
| 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. | |

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| 7 | The unit should have two hand switching and two Footswitch Monopolar outputs and one hand switching and footswitching bipolar output. | |
| 8 | The unit should not have RF Leakage current more than 150mA | |
| 9 | **Accessories Requirement.** | |
| | **a,** Monopolar Footswitch | |
| | **b,** Bipolar Footswitch: | |
| | **c,** Reusable hand switching Pencil: | |
| | **d** Disposable Patient Plate | |
| | **e,** Reusable Patient Plate | |
| | **f,** Bipolar Forceps | |
| | **g,** Forceps Cord | |
| | **H,** All standard and basic electrodes for surgery should be customisable | |
| 10 | It should follow international Safety Standard and requirement with **CE** Certification or **USFDA** Approval. | |
| 11 | Electrical safety class: Class 1/ Type CF. | |
| 12 | Availability of Spare parts and all other accessories must be for 10 year. | |
| 13 | Power input to be 220-240 VAC, 50Hz fitted with UK Plug. | |
| 14 | Operating and service manual should be supplied. | |
| 15 | Minimum of TWO year of comprehensive warranty including Reusable accessories should be provided along with technical support. | |