

RADIO FREQUENCY SURGICAL UNIT

1 Description of Function

- | | |
|-----|--|
| 1.1 | Electrosurgical units or Cautery are required to provide cutting and coagulation electrically during surgery |
|-----|--|

2 Operational Requirements

- | | |
|-----|---|
| 2.1 | RF Surgical unit suitable for dermatology applications is required. |
| 2.2 | RF Surgical unit suitable for dermatology applications is required. |

3 Technical Specifications

- | | |
|-----|---|
| 3.1 | <ol style="list-style-type: none">1. Operating frequency between 3.5 - 4 MHZ2. Power output 100-150 watts.3. Provision of finger switch and/or foot switch for activation.4. Preferable not to have ground or skin contact of antenna plate.5. Provision for cut mode, cut & coagulate mode, fulguration, dessication & hemostasis mode.6. Adjustable volume for activation monitor.7. Bipolar pinpoint Microfine coagulation will be preferable.8. Line voltage of 220-240 AC.<ol style="list-style-type: none">1. Shall have autocut facility. |
|-----|---|

4 Environmental factors

- | | |
|-----|--|
| 5.1 | Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. Or should comply with 89/366/EEC; EMC-directive. |
| 5.2 | The unit shall be capable of operating continuously in ambient temperature of 20-30 deg C and relative humidity of 15-90% |
| 5.3 | The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90% |

5 Power Supply

- | | |
|-----|--|
| 6.1 | Power input to be 220-240VAC, 50Hz fitted with Indian plug |
| 6.2 | UPS of suitable rating with voltage regulation, spike protection and maintenance free batteries for 60 minutes back up |

7 Standards, Safety and Training

- | | |
|-----|---|
| 7.1 | Should be FDA, CE, UL or BIS approved product |
| 7.2 | Comprehensive training for lab staff & support services till familiarity with the system. |
| 7.3 | Manufacturer should have ISO certification for quality standards. |

8 Documentation

8.1	User/Technical/Maintenance manuals to be supplied in English.
8.2	List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
8.3	Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.
8.4	List of important spare parts and accessories with their part number and costing.
8.5	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
8.6	Certificate of calibration and inspection.