

Equipment Specifications for Q Switched Nd-Yag Laser System with Blending Facilities

1 Description of Function

- 1.1 Q-switched technology, doctors are able to perform a wide range of aesthetic laser treatments, from wrinkle and acne scar reduction, multi-color tattoo removal, pigmented lesion (sun spot) removal, hair removal, and vascular lesion treatments.

2 Operational Requirements

- 2.1 Should be suitable for pigmented lesions.

3 Technical Specifications

- 3.1
- 1.Type of Laser :Nd Yag with KTP frequency doubling
 - 2.Beam profile : Flat Beam
 - 3.Delivery System : Direct
 - 4.Wave length : 1064 nm / 532 nm.
 - 5.Fluence : Upto 12 J/cm²
 - 6.Pulse Width : Upto 3 nsec to 6 nsec.

4 System Configuration Accessories, spares and consumables

- 4.1 Optional Accessories :
1. Protective Goggles (4 pairs)

5 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%

6 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 and support services till familiarity with the

system on site.

8 Documentation

- | | |
|-----|---|
| 8.1 | User/Technical/Maintenance manuals to be supplied in English. |
| 8.2 | Certificate of calibration and inspection. |
| 8.3 | List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual. |
| 8.4 | Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.
The job description of the hospital technician and company service engineer should be clearly spelt out |
| 8.5 | 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. |
| 8.6 | List of important spare parts and accessories with their part number and costing. |