

SPECIFICATIONS OF ND-YAG LASER

1. Laser wavelength 1064nm or more.
2. Structure Mode: super-Gaussian for highly precise beam profile.
3. Optical breakdown 2- 2.5 MJ or less in air.
4. Pulse duration < 4ns
5. Max. Laser energy: 10mj (Single Pulse), 20- 23mj (Double pulse) And 32- 37mj (Triple pulse).
6. Minimum Energy 0.3Mj – 10mj or higher (Single Pulse)
7. Energy levels: 20- 25 steps
8. Pulse repetition frequency Max. 2.5 Hz.
9. Focus diameter 8- 10 microns in air.
10. Cone angle/Angle of exit aperture 16°C.
11. Aiming beam Laser diode with 620 – 670 nm wavelength. Power 5 μ W to 150 μ W.
12. Aiming beam should be with 4 Points in the shape of a quadrant of a circle to identify astigmatic disorders. This system allows the visualization of optical aberrations in the patient's eye, allowing the physician to set the energy accordingly. Normally, all 4 points can be easily brought into coincidence at perfect focus.
13. Aiming beam should focus offset +/- 150 um posterior & anterior focus shift with fixed optics for highest precision. (Variable optics with multiple focus shift not allowed).
14. Remote laser control unit so that laser parameters can be changed by an assistant for easy use, it should not be Integrated/mounted on the Slit lamp from the same manufacturer.
15. Laser should be a reputed international make with 10 -15 year track record.
16. LASER SLIT LAMP: Slit Lamp with 5, 8, 12, 20, 32x magnification changer with Galilean changer with 10x eyepieces and straight tube $f=140$ mm with PD adjustable 50-78mm.
17. Illumination: halogen12v/30w; adjustable.
18. Slit width 0-14mm continuous, Length 1/3/5/9/14mm.
19. Machine should have an isolation transformer for safe handling.

Conditions for tender:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and European CE be approved by 4 digits notified body.
4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
6. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
7. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
8. Offered Equipment should have a strong Government Installation base.
9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
11. In case of technical snag/failure/breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine/ alternate arrangement to be made till the period of recovery of the breakdown of the unit, failing which attracts penal action as per the decision of institute/ hospital.
12. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers at the proper designated place- at bidders' cost.
13. Company should quote their latest model and need to provide an affidavit for the same.

14. As a tendering process the Demonstration of the offered Equipment is Mandatory at hospital/institute premises or other designated places at the bidder's cost.
15. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
16. Any bidder from a country that shares a land border with India will be eligible to bid in the tender only if the bidder is registered with the Competent Authority (i.e., Registration certificate issued by the Ministry of Commerce and Industry (Department for Promotion of Industry and Internal Trade- DPIIT after October 2020). If any such bidder is not registered with DPIIT they will be liable for technical disqualification.
17. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be cancelled.
18. The Bidder and it's OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).
19. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for further 5 years after expiry of 5 years of warranty (i.e., 6th, 7th, 8th, 9th and 10th years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be rejected. Payment for CMC/AMC shall be made only after the expiry of the warranty of 5 years, in case the Institute (the purchaser) decides for availing of CMC/AMC services. Contract for CMC/AMC shall be decided on expiry of warranty but rates (not more than 5% inclusive of all taxes for 6th to 10th year) will be frozen at the price of an issued purchase order before the release of payment by the Institute (the purchaser). However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.