

Pl.A1/Phy/2505-4/2021

**Department of Physics, University of Kerala, Kariavattom,  
Thiruvananthapuram, Kerala, India - 695 581, Ph: 91 471 2308920**

Date: 20/12/2021

**E-Tender Notice(Re-tender)**

Department of Physics, University of Kerala, Thiruvananthapuram invites open tenders through e-Procurement (in two bid system) for the purchase of Nd-YAG laser as a source for the Z-scan setup.

Last date and time for submission of tender online	: 29/12/2021 5 pm
Date and time of opening of tender	: 01/01/2022 11 am
Hard copies of the sealed tenders to be submitted to the office of	<b>The Registrar, University of Kerala, Senate House campus, Palayam Trivandrum- 695 034, Kerala Tel: +91-471-2305631, 2386202 (O)</b> <b>e-mail: regrku@gmail.com</b>
For technical details contact	<b>Dr. I. Hubert Joe., Associate Professor, Department of Physics, University of Kerala, Thiruvananthapuram, Ph. No. 9447220563</b>  E-Mail: hubertjoe@gmail.com

**For further details logon to [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in)**

### **Technical specifications of the required item**

**Energy:** 28mj at 1064nm, 12mj at 532nm

**Pulsewidth:** 5 – 7 ns @ 1064 nm, 3 – 5 ns @ 532 nm

**Stability:** 2% at 1064, 3% at 532nm

**Beam Size:** Not to exceed 3mm

**Divergence:** < 3 mrad

**Linewidth:** 1 cm<sup>-1</sup> or less

**Rep. Rate:** 1-15Hz variable with single shot

**Jitter:** ± 0.5ns

**Power Requirements:** 230V, not to exceed 2 Amps

System must use self contained Water to Air Cooling

Laser Head must use Kinematic Mount for changing Lamp

System must include Kinematic Mounts for all Harmonics and Wavelength Separation

Harmonic Generators must be sealed and mounts must include angle tuning mechanism

System must include Remote Single Shot Cable

System must include external TTL Control

System Oscillator must be constructed using a open cavity design so that access to all optics in the Oscillator is possible for inspection and maintenance.

Laser Head Size can not exceed 11" L x 7" W x 2.5" H

**Warranty:** 1 year from the date of delivery

### **General Conditions:**

1. Every tenderer should submit Tender fee of **Rs. 2,500/-**
2. Every tenderer should submit Earnest Money Deposit (EMD) of **Rs. 12,000/-**
3. The tender shall be submitted in the two bids viz. Technical Bid and Financial Bid. Only those qualified in technical bid will be eligible for participating in financial bid. A presentation regarding the technical specification and item to be supplied shall be done before the technical evaluation committee if requested.
4. The bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization Form and Indian agents of foreign principals, if any, who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
5. **Compliance Statement:** Along with the technical details provide a tabular column indicating whether the equipment quoted by you meets the specifications by indicating 'YES' or 'NO'. If 'YES', support the claim by providing original brochures. **Venders should provide clear brochures/data sheets about the equipment and its working. Also include adequate proof for the claim regarding the performance.**
6. **Reference:** Names of Institutes with contact person and telephone/ email where similar equipment supplied by you in India [Preferably South India] shall be mentioned in the bid.
7. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
8. The price should be inclusive of all taxes, duties, transportation, insurance, installation etc. Nothing extra will be paid in addition to the quoted rate. Any amount in Indian rupees for installation, commission, labour, spares, service etc shall be entered in item 2 of BoQ.
9. **Payment Terms:** 90% payment shall be made through irrevocable LC on presentation of complete and clear shipping documents and balance 10% of the amount shall be released after the receipt, installation commissioning and acceptance of the equipment.
10. **Validity of tender:** Tender submitted shall remain valid at least for 120 days from the date of opening the tender. Validity beyond 120 days, from the date of opening of the tender shall be by mutual consent.

11. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation and training (one week) should be made at the Department of Physics, University of Kerala, Kariavattom campus, Trivandrum without extra cost (inclusive of documentation, demurrage, customs duty, clearance and transportation charges). University of Kerala will provide customs duty exemption certificates if required.
12. Service facility: Supplier should mention their details of service setup and manpower in Thiruvananthapuram who are responsible for after sales support.
13. The model number, make, and a printed literature of the product shall submit positively.
14. In case of any dispute, the decision of the University authority shall be final and binding on the bidders.
15. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.
16. The quoted item should be under **comprehensive warranty for 5 years** or more.
17. If any component is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.
18. For any queries please contact, Dr. Subodh G. Assistant Professor, Department of Physics, University of Kerala, Thiruvananthapuram, Ph. No. 9633983404 E-Mail: gsubodh@gmail.com

### **Documents to be Uploaded**

1. Signed Compliance Matrix
2. Detailed Technical Brochure
3. Under taking of support for next 10 Years
4. BoQ
5. Detailed Financial Bid
6. Hard copy of Bank Guarantee if opted

**The Registrar,  
University of Kerala,  
Senate House campus, Palayam  
Trivandrum- 695 034, Kerala.**