

रामन अनुसंधान संस्थान
RAMAN RESEARCH INSTITUTE

सी.वी. रामन अवेन्यू, सदाशिवनगर
C.V. Raman Avenue, Sadashivanagar
बेंगलूरु/ Bengaluru – 560080



लेज़र सिस्टम की आपूर्ति, स्थापना, परीक्षण और कमीशनिंग के लिए निविदा
**Tender for Supply, Installation, Testing and
Commissioning of Laser System**

REF No: NIT-250792-LS-25-26

निविदा प्रलेख
**TENDER DOCUMENT
25-26**

17.10.2025

टिप्पणी: इस निविदा में भागीदारी केवल दो बोली प्रणाली में ऑफलाइन मोड के माध्यम से होगी।

Note: Participation for this tender is only through OFFLINE mode in two bid system.



Due date for submission of Bid: 10.11.2025 at 4.00 PM

Technical Bid will be opened on 11.11.2025 at 4.00 PM

The Raman Research Institute invites Sealed offline Tenders for **Supply, Installation, Testing and Commissioning of Laser System** directly from the manufacturers or their authorized agents, adhering to the specification, terms and conditions given below:

TECHNICAL SPECIFICATION:

Sl. No	Item Description	Qty.	Compliance (Y/N)
	Laser system for Rydberg excitation in Rb atoms		
1.	1013 nm Laser - Wavelength tunability: ≤ 1012 to ≥ 1016 nm - Output power: > 25 W CW before isolator - Optical output: Free space collimated beam - Optical head dimension: Around 175x125x50 mm - Optical head cooling: Cooler less head - Output isolation: > 25 dB - Beam diameter: ~ 1.0 mm - Spatial mode: TEM00 - Beam quality: $M^2 < 1.1$ - Mode of operation: Constant power - Power stability: $< \pm 0.5\%$ over 8 h - Polarization: Linear vertical $> 300:1$ - Pointing stability: $< \pm 0.5$ urad/$^{\circ}\text{C}$ - Remote control facility - With optical isolator $> 60\text{dB}$ - With single mode fiber coupling facility with length more than 2meter - Compatible with high finesse cavity to reduce linewidth below 5Hz	1 Unit	
2.	420 nm laser - Central Wavelength: 420 nm Wavelength tunability ± 1 nm. - Output power: > 1 W CW after isolator - Auto-alignment facility - Optical output: Free space collimated beam - Mode hop-free tuning: > 15 GHz (20 GHz typ.) - Linearly polarized - Remote control facility - Compatible with high finesse cavity to reduce linewidth below 5Hz		



	Dual Wavelength Cavity Compatible to 420 nm and 1013 nm laser • Very high finesse ultra stable (low expansion) dual cavity compatible to 420 nm and 1013 nm. With all locking components to stabilize the 420 nm and 1013 nm laser to reduce the linewidth and very low drift of the frequency of lasers. • Linewidth at 1s integration time (in calm and temperature-controlled environment): < 5 Hz · Linear drift rate: typical < 150 mHz/s · Locking loop bandwidth: up to 3 MHz · Free spectral range of cavity: around 1.5 GHz • Optionally may quote for intra-cavity EOM option to increase the lock bandwidth. • There should be provision to insert the spectral filtering cavity between the master laser and amplifier.		
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GENERIC:

1. The Institute is eligible to issue Central Excise Duty Exemption Certificate or Customs Duty Concession Certificate. The Institute is not eligible to issue State Goods and Service Tax/ Central Goods and Service Tax Concession Certificate.
2. The Institute reserves the right to modify the technical specification or the required quantity at any time but within one week before the due date.
3. The Institute reserves the right to reject any or all of the bids received without assigning any reason. It also reserves the right to accept an offer other than the lowest.
4. The Institute reserves the right to postpone/extend the due date for submission of the bid without assigning any reason.
5. The Institute reserves the right to call potential suppliers for technical discussions and product demonstrations.
6. Any Technical clarification required towards submission of offer may please be mailed to purchase@rri.res.in



ELIGIBILITY CRITERIA:

1. **Experience Criteria:** The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. A proof should be attached. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.
2. **Manufacturer Authorization Form (MAF):** Bidder should be Original Equipment Manufacturer (OEM). In case of an authorized agent/partner/distributor service provider having direct purchase and support agreement with OEM and/or submitting the bid on behalf of OEM, should submit a valid MAF/Certificate from OEM/ or Original Service provider to that effect.
3. Details with contact information and telephone numbers for service support of the products should be provided. Escalation matrix with contact information and telephone numbers should also be provided.
4. The bidder must NOT be blacklisted by Central Government, State Government or any Organization in India. A certificate or undertaking to this effect must be submitted.
5. The bidder should NOT be under liquidation, court receivership or similar proceedings, should NOT be bankrupt. Bidder to upload undertaking to this effect with bid.
6. I) As per the Government of India, Ministry of Commerce and Industry and Department for Promotion of Industry and Internal Trade (Public Procurement Section) Order No. P-45021/2/2017-PP (BE-II)-Part (4) Vol. II dated 19-07-2024.
 - a) **The Bidder should produce a certificate whether he/she belongs to “Class – I’, ‘Class – II, or ‘Non – Local supplier’ with percentage of local content.**
 - b) Class – I’, ‘Class – II’, and ‘Non – Local supplier’ as classified in above mentioned Order are eligible to submit the offer. While finalizing the quotation, the instructions given in the above order shall prevail.
- II) As per the Government of India, Ministry of Finance and Department of Expenditure, Public Procurement Division – Office Memorandum No. F.No.6/18/2019-PPD dated 23.07.2020, the Institute reserves the right by order in writing, impose restrictions, including prior registration and/or screening, on procurement from bidders from a country or countries, or a class of countries, on grounds of Defense of India, or matters directly or indirectly related thereto including national security; no procurement shall be made in violation of such restrictions.



SUBMISSION OF TENDER:

1. The bids should be complete in all respects and the details specified in this request should be adhered to and submitted **on or before bid due date**.
2. Bids should be valid for **180** days from bid due date or any extension to it.
3. The quoted price should include P&F and Freight Charges, Insurance, Loading & Unloading Charges, and Installations, etc.
4. The tender should be addressed to: **“The Administrative Officer, Raman Research Institute, C V Raman Avenue, Bengaluru-560 080.”**
5. The Tender should be submitted in three sealed covers detailed below: -
 - a. **Cover-I: Containing Technical Bid, and EMD.** This cover should be superscribed as **“Technical Bid and EMD”** along with Tender Reference Number, Due Date, and Name of the Tenderer.
 - b. **Cover-II: Containing Price Bid** - This cover should be superscribed as **“Price-Bid”** along with Tender Reference Number, Due Date, and Name of the Tenderer.
 - c. **Cover-III: Containing both the covers (Cover I & Cover II)** mentioned above shall be put in another sealed cover i.e., Cover-III, superscribing the Tender Reference Number, Due Date and Name of the Tenderer.
6. The **Tenders should be dropped on or before bid due date into the Tender Box only**, placed at the Institute Security Office at the Main Gate.

EVALUATION OF BIDS:

1. The bids should be complete in all respects and the details specified in this request should be adhered to and be submitted on or before due date mentioned above. The authorized representatives of participating firms, desirous can be present at the time of tender opening.
2. The bids conforming to the eligibility criteria only will be considered for further evaluation.
3. The bids will be shortlisted on the basis of technical parameters, features, standards compliance of all materials and equipment used, etc.
4. For Technical evaluation, bidders have to ensure the availability of appropriate expert, along with every type of documentation from their organization for interacting with the Institute
5. The Financial Bids will be opened only of those technical bids found suitable and approved by our Technical Evaluation Committee.



TERMS & CONDITIONS:

1. The bid shall be divided into two parts:
 - I) The first part should be **“Technical Bid” (Cover-I)** containing only detailed specifications for tendered: **Supply, Installation, Testing and Commissioning of Laser System, and EMD**. The details include:
 - a) Detailed literature including Data Sheets of quoted products.
 - b) Supporting Documents for eligibility criteria such as MSME, OEM authorization letter, compliance sheet, MII content declaration, etc.
 - c) **The first part “Technical Bid” (Cover-I) shall not contain any financial aspects of the offer.** It shall contain only a cross reference to the second part (Financial Bid).
 - II) The Second part **“Price Bid” (Cover-II)** shall contain detailed financial outlay with List of deliverables / Bill of materials / Bill of Quantities and services, unit price of items as in the technical bid (i.e., First Part).
2. Bidder should submit **EMD of Rs. 7,00,000.00 (Rupees Seven Lakh only)** along with technical bid. Payment should be by way of DD / Banker’s cheque only, drawn in favour of **“The Administrative Officer, Raman Research Institute, Bangalore”**. No other form of payment will be accepted. The Tenders without the EMD will be rejected.
3. The MSME Units/Enterprises claiming exemption of EMD should submit MSME UDYOG AADHAAR MEMORANDUM or registration certificate issued by District Industries Centre (DIC) / Khadi & Industries board (KVIB) / Coir board / National Small Industries Corporation (NSIC) / Directorate of Handicrafts and handlooms or any other body specified by Ministry of MSME. The memorandum / certificate submitted should be for the scheduled items of this bid and shall be valid as on bid due date /extended due date of the bid. However, MSME Unit/Enterprises must submit a duly signed **Bid Security Declaration** in lieu of EMD as per the Form of Bid-Security Declaration (Annexure -1).
4. The successful Bidder’s EMD will be discharged upon the Bidder furnishing the Performance Security (Bank Guarantee), without any interest.
5. The refund of EMD for unsuccessful bidders will be made through Cheque or Electronic mode within a month after finalization of bid.
6. **The EMD may be forfeited:**
 - a) If a Bidder withdraws or amends or modifies or impairs or derogates their bid during the period of bid validity specified by the Bidder on the Bid form;

OR

 - b) In case of a successful Bidder, if the Bidder fails to furnish order acceptance or fails to sign the order and/or fails to furnish Performance Bank Guarantee within 15 days from the date of issue of Order.
7. The successful bidder immediately after the award of the Order shall prepare a detailed plan of Supply, Installation. Testing & Commissioning as proposed to be followed by placement of equipment, etc in consultation/ co-ordination with the end user.



8. **Performance Bank Guarantee (PBG):** The bidder should provide **3%** (Three percent) of the order value in the form of a Bank Guarantee towards satisfactory performance after supply. The PBG should be valid throughout the warranty period of **One year plus Six months** as claim period, from the date of supply. The said PBG shall be returned/refunded to the bidder after satisfactory completion of supply of goods as well as warranty period and claim period as per the terms of the Order. In case of failure to render the ordered service, either at the time of execution or during the warranty period or non-compliance of due performance of order, the PBG will be forfeited.
9. The Bidder shall not assign the Order in whole or part without obtaining the prior written consent of Institute. The Bidder shall not sub-contract the Order in whole or part to any entity without obtaining the prior written consent of Institute and the Bidder shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to Institute together with the assignee/sub-contract, for and in respect of the due performance of the Order and the Bidder's obligations there under.
10. Without prejudice to Institute's right to price adjustment by way of discount or any other right or remedy available to Institute, Institute may terminate the Order or any part thereof by a written notice to the Bidder, if:
 - a) The Bidder fails to comply with any material term of the Order.
 - b) The Bidder inform Institute of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise become apparent.
 - c) The Bidder fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
 - d) The Bidder becomes bankrupt or goes into liquidation.
 - e) The Bidder makes a general assignment for the benefit of creditors.
 - f) A receiver is appointed for any substantial property owned by the Bidder.
 - g) The Bidder has misrepresented to Institute, acting on which misrepresentation Institute has placed the order on the Bidder.
11. Delivery of goods should be made at our stores located on campus near Mekhri Circle, Bengaluru – 560 080, at suppliers cost and risk.
12. **Factory Test Certificates:** Material test certificate / Performance date sheet should be sent along with the supply. The material will be checked by Institute's lab & the results of the lab will be the sole criteria for acceptance of the Item.
13. **Warranty: Standard warranty.**
14. Defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary. The Expenditure involved like Freight Charges, Custom Duty, Insurance Charges, Clearance Charges etc., is to be borne by the successful bidder.



15. In case the Equipment/System remains non-operational or performs below the desired level for more than One week after intimation of the fault in the Equipment/System then the Warranty period shall be extended for such downtime period for which the Equipment/System remained non-operational or performed below the desired level, without prejudice to any other terms and conditions of the Order.
16. **Payment:** 80% Payment after delivery and acceptance of the goods/ material/ ordered item and balance 20% after successful installation, testing and commissioning, and submission of Performance Bank Guarantee, for 3% as per **point no. 8.**
17. **LD Clause:** Time is the essence of this supply, delivery period mentioned in the Order should be strictly adhered to, otherwise LD clause will be applicable/ enforced. All deliveries should be completed within the stipulated delivery time of the Order due date. While the Institute reserves the right not to accept delivery in part or full, beyond the due date of delivery, liquidated damages at 0.5% per every week of delay, maximum of 10% will be levied. Exceptions: Force Majeure.
18. **Post-Sales Support:**
The Equipment must be supported by service centre post sales manned by the principal Bidder's technical support Engineers. The post-sales support through this centre must be available 24 hours in a day, 7 days in a week and 365 days in a year, also it should be possible to contact the principal bidder's support centre on a toll-free number/ web mail. If Service Centre doesn't exist at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Bidder/ OEM should provide the details of on-site support to be extended during the warranty period.
19. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period.
20. All disputes, arbitration, if any, are subject to jurisdiction of courts in Bengaluru, Karnataka, India only.



FORM OF BID-SECURITY DECLARATION

[The Bidder should fill in this Form on Letter Head in accordance with the instructions indicated]

To
The Administrative Officer,
Raman Research Institute,
C.V. Raman Avenue, Sadashivanagar,
Bengaluru – 560 080.

Ref: Tender Ref. No. **NIT-250792-LS-25-26** dated: **17.10.2025**

We, the undersigned declare that:

We know that the bid should be supported by a Bid Security Declaration in accordance with your conditions.

We hereby declare that the prices offered by us against RRI bid Document No. **NIT-250792-LS-25-26** dated: **17.10.2025** for **Supply, Installation, Testing and Commissioning of Laser System** will be firm for a period of 90 days or the date when the tenders are finalized, whichever is earlier.

We accept to automatically be suspended from being eligible for bidding in any order in RRI for a period of 3 years from the date of opening of Bid, if we are in breach of our obligation(s) under the bid conditions, because we:

After having been notified of the acceptance of our bid by the Ordering Authority within the period of bid validity:

- 1) We failed or refused to furnish a Performance Security in accordance with the Condition of the Bid Document No. **NIT-250792-LS-25-26** dated: **17.10.2025**.

OR

- 2) We failed or refused to sign the order.

We know that this Bid – Security Declaration will expire, if order is not awarded to us, upon:

- 1) Your notification to us of the name of the successful bidder or
- 2) Twenty – eight days after the expiration of our Bid validity or any extension to it

Dated this ____ day of _____

For and on behalf of M/s. _____

Address:

Signature

Name

In the capacity of

seal/ stamp

