



JNCASR

## जवाहरलाल नेहरू उन्नत वैज्ञानिक अनुसंधान केंद्र

जक्कूर, बेंगलुरु - 560064 कर्नाटक, भारत

विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन एक स्वायत्त संस्थान  
सम विश्वविद्यालय संस्था

## Jawaharlal Nehru Centre For Advanced Scientific Research

Jakkur, Bengaluru - 560064 Karnataka, INDIA

An autonomous institution under Department of Science and Technology, Govt. of India.  
An Institution Deemed-to-be-University



JNC/PUR/CPMU/MD/PI2-85/25-26/11/E

June 19, 2025

### NOTICE INVITING TENDER

Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur invites sealed tenders in two bids (Technical & Commercial) from qualified and experienced Vendors for **L- Shape Vibration Isolation Optical Tables** as per the terms and conditions below and as broad specifications shown in ANNEXURE-I

#### TERMS & CONDITIONS:

1. Any item not specifically mentioned in the technical specification but essential for successful implementation of the system (in the opinion of the bidder) must be brought to our notice and quoted accordingly.
2. At the time of installation, if it is found that some additional items are required to meet the operational requirement of the configuration, but not included in the bidder's original list of deliverables, the bidder shall supply such items to ensure completeness of the configuration at no extra cost. Make and Model should be specified with complete brochures to verify the specifications.
3. Delivery period should be 12 to 16 weeks from the date of Purchase Order. Once delivered to onsite, the installation, commissioning and acceptance period will be within two weeks from the date of delivery of equipment.
4. The successful bidder immediately after the award of the Purchase Order shall prepare a detailed plan of installation as proposed to be followed by placement of the equipment, etc.
5. System Installation and integration of all supplied equipment and software shall be done by the successful bidder. Subcontracting in any form is not allowed.
6. Bidders should clearly specify after sales/service/application support/AMC capabilities. Bid validity should be 60 days.
7. Warranty and support: All supplied Equipment with Accessories – 5 years.
8. Provide all information as regards pre-installation requirements (i.e. room, environment) for system installation.
9. Detailed list of users of the system in India with contact details to be furnished.
10. Bidders should be submitted EMD for Rs. 65,000/- only in the form of DD/ Bank Guarantee respectively. EMD exemption will be allowed to vendors having valid MSME Certificate as per rules.





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11. Performance Security: The successful bidder has to provide 3% Performance Security in the form of Bank Guarantee within 15 days after receiving Purchase Order.
12. Performance Bank Guarantee: Successful bidder has to submit 3% PBG valid for five years.
13. Payment terms: 90% payment against supply and balance 10% payment against installation and commissioning and submission of Performance Bank Guarantee for 3% of Purchase Order value valid for five years from the date of installation/commissioning.
14. Late & delayed quotations will not be considered.
15. As time is the essence of the contract, delivery period mentioned in the Purchase Order should be strictly adhered to. Otherwise the successful bidder will forfeit Security Deposit. If the supplier fails to supply, install and commission the system as per specifications mentioned in the Purchase Order within the due date, the supplier is liable to pay liquidated damage of 0.5% of Purchase Order value per every week of delay subject to a maximum of ten percent beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier. JNCASR reserves the right to cancel the Purchase Order in case the delay is more than ten weeks. Penalties, if any, will be deducted from the Security Deposit. The maximum amount of penalty shall be ten percent. Liquidated damages shall be levied on the Purchase Order value, freight, insurance and duties.
16. The place of Applicable Law / Jurisdiction is Bengaluru, Karnataka, India.
17. Decision of the President, JNCASR will be final.
18. Formats for price-bid: Corresponding to each part in the technical bid there should be a pricing referring to the Part name in the technical bid and mentioning quantity, unit price and total price. If there are any other charges, they should be also added at the end. All pages have to be serially numbered. References if any to technical bid should be provided along with the exact location (page number, etc). You are required to use the price bid format given by us only for commercial tender.
19. Warranty Replacements: Any replacement of defective items during Warranty period is the responsibility of the successful bidder. The expenditure involved like freight charges, customs duty, insurance charges, clearance charges etc. are to be borne by the successful bidder.
20. Submission of Proposal: The proposal should be submitted in a sealed two bid system. One containing sealed technical bid and the other one a sealed price bid. The bidder name, the nature of the envelope (either technical bid or price bid) must be clearly mentioned on top of each of the envelope. The sealed proposals must be addressed to Senior Stores & Purchase Officer, JNCASR. The proposals should be submitted at the Stores & Purchase Department, JNCASR.
21. Evaluation of bids: Technical bids will be evaluated by JNCASR. Price bids of technically qualified bidders only will be opened on date and time that will be decided by the JNCASR.



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22. Public Procurement (preference to "Make in India") order 2017 will be considered as per order No. P-45021/2/2017-PP (BE-II), dated 28.05.2018.

### Important Dates:-

IMPORTANT DATES	
Last date for submission of bids (Two-bid system)	04.07.2025 @ 3.00 PM
(a) <u>Technical Cover</u> : Technical Specification with Commercial Terms and Conditions, Brochures, Compliance statement EMD & Bill of quantities without Price Information.	
(b) <u>Price bid cover</u> : With complete specs & item wise Rates to be indicated.	
Opening of technical bids :	04.07.2025 @ 3.00 PM
Opening of commercial bids :	Will be informed later

के. भास्करा राव / K. BHASKARA RAO  
वरिष्ठ भंडार एवं क्रय अधिकारी / SR. STORES & PURCHASE OFFICER  
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JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH  
जक्कूर बेंगलूरु - 560 064 / JAKKUR, BANGALORE- 560 064.





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### ANNEXURE – I

#### Technical Specifications for L- Shape Vibration Isolation Optical Tables

##### 1. Table tops with following specifications:

- Table top Dimensions : 2400 x 1500 mm or nearest and 2400 x 1200 mm or nearest
- Thickness of Table top required : 300mm or nearest
- Max. Dynamic Deflection coefficient :  $0.6 \times 10^{-3}$
- Max. Relative Motion :  $1.9 \times 10^{-7}$  mm
- Compliance : 85 nm /N
- Natural frequency :  $\leq 200$  Hz
- Top skin should have 4.0 mm thickness 430 series Ferro magnetic SS plate, smooth sanded finish
- Side Walls should have 2.0mm thickness carbon steel plate with damped wood composite, vinyl covered finish
- Bottom skin should be 4.5 mm thickness carbon steel plate epoxy painted finish.
- Core : steel Honeycomb (0.25mm foil,  $2.9 \text{ cm}^2$  cell size)
- Surface Flatness:  $\pm 0.03$  mm over 600mm square
- Mounting Holes : Metric – M6-1.0 holes on 25mm grid, 37.5mm borders
- Hole / Core Sealing : Easy clean cylindrical cup (25mmdeep)
- Damping : Broadband Standard Damping
- Compliance curve should be provided
- Core Shear Modulus :  $19339 \text{ kgf/cm}^2$  (275000 psi)

##### 2. Pneumatic Support System with the following specifications (2 sets of 4 legs):

- Should be able to support the above table tops
- Individual legs with pneumatic support
- Load capacity : 1000kg
- Height : 600mm
- Leveling : Auto Leveling by 3 automatic leveling valve
- Self-centering
- Accuracy of Leveling Repeatability :
  - Standard leveling valve =  $\pm 1.0$  mm (0.04 in.)
  - Precision leveling valve =  $\pm 0.05$  mm (0.002 in.)
- Integrated supports should come with casters and leveling feet
- Effective damping by the two chamber system
- Resonant Frequency : Vertical / Horizontal = 1.2 – 3.0 Hz
- Vibration Isolation at 10 Hz : Vertical / Horizontal = 80 – 99%

##### 3. Suitable joiners to join the above tables in L-Shape

- Carbon steel or yoke joiners on the side of 1500mm to couple the side of 2400mm



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### 4. Air compressor:

- Operating pressure : 40-80 psi
- Pressure control : Present minimum pressure by automatic switch
- Electric power : 220VAC, 200W
- Noise level less than 40 dB
- Air tank capacity of 13 liters
- Hands free operation of the compressor
- The compressor should include the Regulator filter and the air intake filters

### 5. Free – standing overhead shelves for the L-shaped Tables:

- Stable, Free – Standing Design That Does not interfere with Vibration Isolation
- Aluminum frame with two-tier open shelves
- High – Load – Capacity Shelves Spanning L-shaped Table length
- Adjustable Shelf Height
- Through Holes in Frame for Easy Cable Management

### Performance Specifications

- 1<sup>st</sup> Resonant Frequency
  - Vertical:  $\leq 1.2$  Hz
  - Horizontal:  $\leq 3$  Hz
- Roll off rate (or Isolation efficiency)
  - At 10 Hz
  - Vertical: over 80%
  - Horizontal: over 99%

### Other requirements:

1. The table manufacturer / vendor should have proven track records in supplying vibrational isolations system in various labs across India. User reference list with contract details should be furnished.
2. At least 5 year warranty should be provided for the system
3. The vendor should successfully install the system and show the damping performance. Only after this, the system will be accepted.

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