

Global Tender Notification for the procurement of a research grade vibration isolation optical table (L-shaped) (Last Date for submission of tenders: 21st March'2024)

REF: PH/ASIN/003/2023-24

29th February'2024

A request for quotation for a research grade vibration isolation optical table (L-shaped). GTE approval number is IISc-GTE-2023-334.

The quotation should clearly indicate the terms of delivery, delivery schedule, E.D., transportation charges, if any, payment terms etc. Kindly submit the quotation by the date mentioned above to Department of Physics, IISc.

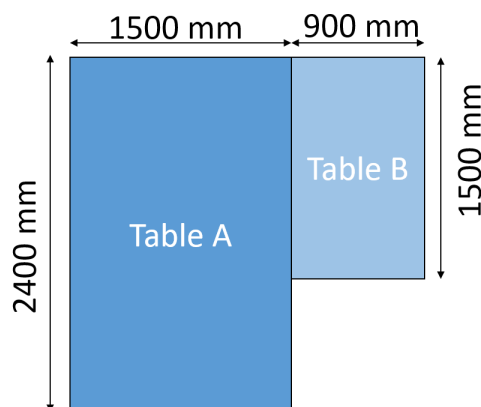
Pre-bid criteria

1. The vendor should have a track record of having previously supplied at-least four similar equipment (joined research-grade optical-tables) or ten research-grade optical-tables to CFTI's (centrally funded technical institutes) and National labs in the past three years, please furnish the details with the bid.
2. Please include 2-3 reference letters from customers in India, or relevant purchase orders.
3. The company should have been registered for more than 5 years.
4. The bidder shall have to submit audited accounts (Balance sheet profit and loss account) for the financial years 2019-20, 2020-21, 2021-22, 2022-23. Audited statements must be signed and stamped by a qualified chartered accountant.
5. Bidder must submit Income Tax returns for the above assessment years.
6. Details of an experienced service engineer responsible for installation, including contact detail, should be provided.

Please enclose a compliance certificate along with the bid. This certificate should have a table that should describe your compliance in a "Yes" or "No" response against each of the items in the specifications listed below. If "No", the second column should state the extent of deviation. The third column should state the reasons for the deviation if any. Please enclose a compliance statement along with the technical bid. Bids with no statement of compliance will be considered invalid, and will be disqualified.

Specifications of Item: One research grade vibration isolation optical table (L-shaped) consisting of joined tables of dimensions (A) 2400*1500mm and (B) 1500*900mm, both with thickness 300 mm, supported by appropriate vibration isolation systems, with the following specifications:

1. L-shape geometry with schematic below



2. Dimensions of tabletop: (A) 2400*1500*300 mm (8feet*5feet*12inches) + (B) 1500*900*300 (5feet*3feet*12inches), thickness in the range 300-320mm.

3. Suitable joiner system/steel joiner plate (with dimensions similar to 1500mm*300mm) to join the tables. A typical joiner plate consists of male and female portions, with alignment pins and/or lock-nuts. No additional accessories (on the customer side) should be needed to join the tables. Any other type of external coupling on the surface level using metal plates/welding will NOT be considered. Joining should not disturb the individual surface flatness.
4. Mounting Holes: M6 with 25mm spacing.
5. Core: Steel honey-comb, closed cell, >0.01 inch thick foil.
6. Stainless steel top thickness ≥ 4 mm
7. Surface flatness ≤ 0.13 mm (or 0.005 inch) over 600 mm², all over the table.
8. Dynamic deflection coefficient $< 4 \times 10^{-4}$
9. Maximum relative motion $\leq 2.5 \times 10^{-7}$ mm
10. Accuracy of levelling repeatability with standard levelling valve better than 1.3 mm.
11. Combined weight of optical tabletops (without supports) greater than 750 kg.
12. Optical table support system should have height = 600 mm. The supports should be gimbal piston isolators with tie-bars, or active pneumatic isolation frame supported by tie-bars, or free-standing pneumatic isolation posts.
13. Vertical resonant frequency < 1.5 Hz, Horizontal < 1.5 Hz
14. Vibration isolation efficiency @5 Hz: Vertical $> 80\%$, Horizontal $> 80\%$
15. Vibration isolation efficiency @10 Hz: Vertical $> 90\%$, Horizontal $> 90\%$
16. Low-noise compressor (able to supply 80psi nitrogen) for floating the table with low noise < 30 dB, tank capacity in the range 3-5 liters. All necessary air filters/regulators and valves should be supplied along with the compressor.
17. Hands-free (automated) operation of the compressor.
18. Datasheets for specifications #7-16 need to be included.
19. One-year warranty for table and compressor.
20. Please include pictures of the exact model being offered.

Options (please quote separately):

1. Additional 2-year warranty (for a total of two years). Clear coverage scope to be mentioned.
2. Please quote cost of a) CIF-Chennai with ICD Bangalore, and b) CIP Bangalore (by air) separately.

Terms and conditions:

1. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
2. The payment will be by Letter of Credit. Discounts for advance payment terms (if any) should be mentioned. All payments will be performed as per IISc rules.
3. The lead time for the delivery of the equipment should not be more than 4-5 months from the date of receipt of our purchase order.
4. The offer shall be valid at-least 60 days from the date of opening of the bid.
5. The vendors quoting should ideally be registered with IISc, and the quote should ideally carry the vendor registration number in the bid.

Yours Sincerely,



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