

Department of Physics
Indian Institute of Technology, Chennai – 600036.

Ref: PHY/SSRK/042/2017

Date: 07/11/2017

To whomever it may concern

Dear Sir/Madam,

We invite offers for the supply of **Vibration isolation Optical Tables** with the following specifications.

Technical Specifications

- A. Table of Dimension: table top area 15 – 16 sq. ft either in the form of 1500 x 900 x 800 mm (L x B x H) or 1200 x 1200 x 800 mm or nearest – **1 nos.**
- Thickness of Table top required: 400mm or nearest – 1 set
 - Table-top should be made of non-magnetic stainless steel
 - Dynamic Deflection coefficient : 1.10×10^{-3}
 - Relative Motion: 0.5nm
 - Compliance : 37nm/N
 - Natural frequency : 110Hz
- B. Suitable Air compressor (2nos) should be quoted along with the system
- C. Optionally Quote for joiner of suitable dimensions along the breadth of the table (SS)

Working Surface should have the following specifications

- Top Skin should have 4.0 mm thickness 430 series non-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 4mm thickness carbon steel plate epoxy painted finish
- Core: Plated steel Honeycomb (0.25mm foil, 3.2cm² cell size)
- Surface Flatness: +/- 0.1mm 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

Pneumatic Support System should have the following or nearest specification

Load capacity: ~ 1600-1800 Kg

Height: upto 1000 mm should be customized for the user.

Leveling: Auto Leveling by 3 Automatic Leveling valve

Leveling Repeatability: <1.2 mm

Performance Specifications

- 1st Resonant Frequency *Datasheets with plots/graphs should be enclosed*
 - Vertical : ≤ 1.2 Hz
 - Horizontal : ≤ 1.5 Hz

- Roll off rate (or Isolation efficiency) *Datasheets with plots/graphs should be enclosed*
 - at 5 Hz
 - vertical : over 85 %
 - Horizontal : over 75 %
 - at 10 Hz
 - vertical : over 95 %
 - Horizontal : over 85 %

Terms & Conditions

- Vendor should have Multiple Service Personnel to provide efficient local service support.
- System must have installation and on-site training included
- Compliance statement should be enclosed with the quotation.
- The details of the quoted system should be available in the manufacturer's web site. Also the manufacturer should have ISO 9001 or similar certification.
- Authorization letter should be furnished along with the quotation.
- **Preparation of Bids:** The limited tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- **Opening of the tender:** The offer/bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
- **Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to the Physics Department of IIT Madras. The offer/bid should

be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of tax & duties should be clearly indicated.

The price should be quoted without custom duty and excise duty, since IIT Madras is exempt from payment of excise duty, and the custom duty will be paid at concessional rate against duty exemption certificate. In case of import supply, the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.

- **Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.
- **Terms of Delivery:** - The item should be supplied to the Physics Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Sincerely
Sivarama Krishnan
Co-ordinator, MSB 328, Department of Physics
Indian Institute of Technology Madras
Chennai - 600036
India
Telephone: +91 9445 224291
Email: srkrishnan@iitm.ac.in