

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase@iitgoa.ac.in

Enquiry No: IITGOA/2018-19/030

Date: 19/11/2018

IIT Goa invites sealed quotations in two bid format for the supply of below mentioned item.

Sl. No.	Description of Item	Qty
1.	Hybrid (Active and Passive Damping) Optical Table (Detailed Specifications Attached)	01 No.

Terms and conditions:

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Price justification documents should be supplied along with the quote.
4. Kindly attach a compliance certificate along with the quote.
5. Supplier should provide free installation and commissioning of the said item.
6. Prices should be quoted in Indian Rupees inclusive of taxes and any shipping charges.
7. Delivery and installation must be made within 9 weeks of getting a confirmed order.
8. Payment: Within 30 days after the delivery and successful installation.
9. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason.
10. Quotations shall be submitted in two parts;
 - 1) **Part – I (Technical)** should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, AMC details etc. This envelope should be marked as “Technical Bid”
 - 2) **Part -II (Financial)** The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.
- 11) For any clarification, you may kindly contact Dr. Santosh Kumar (e-mail: skumar@iitgoa.ac.in) till 30th November, 2018.
- 12) All quotations must reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa by 15.00 Hrs on or before 12th December, 2018”.

Sd/-

Asst. Registrar (S&P)

Specifications

3 Major Components of an Optical Table

- (1) Table Plate - 1
- (2) Vibration isolators (Legs) – 4
- (3) Low Noise Air Compressor -1

Specifications of (1):

- Damping technologies: Both passive & active
- Broadband damping: Constrained layer core, Damped working surface and Composite edge finish
- Horizontal and vertical IQ Active Dampers: Bandwidth → 10-800 Hz for monitoring vibration, and 80-500 Hz for structural damping; Tuned Damping → IQ active dampers; Computer Interface → USB
- Dimensions: Length, 3000 mm × Width, 1500 mm × Thickness (fixed), 305 mm
- Mounting holes: M6; Pattern, 25 mm grid; Borders, 12.5 mm
- Hole sealing type: Easy clean conical cup, 19 mm deep, Non-corrosive high impact reinforced composite material
- Working surface material: 400 series or higher grade ferromagnetic stainless steel
- Working surface flatness: $\leq \pm 0.1$ mm over an area of ≥ 600 mm square
- Top and bottom Skins: $\geq 3/16$ -inch-thick with integrated damping layer
- Core design: Trussed honeycomb, Vertically bonded closed cell construction, ≥ 0.010 -inch Steel sheet materials, ≥ 0.030 -inch triple core interface
- Compatible for expansion
- Power requirements: 230 V AC, 50Hz

Specifications of (2):

- Height (fixed): 23.5 inch (596.9 mm)
- Load per isolator: ≥ 900 kg
- With self centering mechanism and with a float height indicator
- Settling time: ≤ 1.5 s
- Releveling accuracy: $\leq \pm 0.254$ mm
- Horizontal damping: Oil
- Horizontal isolation: @5 Hz: 85%; @10 Hz: 95% or better
- Horizontal isolation resonance: 1.5 Hz or a lower value
- Vertical Isolation: @5 Hz: 94%; @10 Hz: 98% or better
- Vertical isolation resonance: 1 Hz or a lower value
- Height Adjustment: +30 mm or more
- Horizontal and vertical amplification at Resonances: ≤ 10 dB
- Maximum air pressure: ≥ 85 psi (586 kPa)

Specifications of (3):

- Flow rate @20-80 psi: ≥ 0.68 CFM
- Maximum Air Pressure 116 psi
- Tank capacity: ≥ 3.5 liters
- Operating sound level at 1 ft.: ≥ 30 dB
- Release valve sound Level: ≥ 62 dB