



## INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

### Request For Technical Information and Pro Forma Quotations

#### For Procurement of [Optical table with associated optomechanics and optics]

#### 1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure **[Optical table with associated optomechanics and optics]** for academic and research purposes.

Before initiating the formal procurement process, the Institute invites **Technical Information And Indicative Pro Forma Quotations** from eligible Original Equipment Manufacturers (OEMs) or their authorized representatives.

#### 2. Purpose

The objectives are to:

- Obtain technical information from prospective OEMs/authorized representatives.
- Obtain indicative Pro forma quotations for estimating the procurement cost.

#### 3. Disclaimer

This document is issued **only for obtaining technical information and indicative Pro Forma quotations**.

Submission of information under this proposal:

- shall **not** be treated as a financial bid;
- shall **not** constitute any commitment on the part of IIT Jodhpur to procure the equipment;
- shall **not** confer any right upon the participating firm for award of any future contract;
- shall **not** automatically qualify the responding firm for participation in any future tender.

The Institute reserves the right to modify the technical specifications, estimated cost, procurement methodology, or procurement timeline based on its requirements.

#### 4. Equipment Details

- Name of Equipment: **Optical table with associated optomechanics and optics**
- Quantity: 1
- Broad Functional Requirements (The essential functions or capabilities that the equipment should have, without mentioning a specific make, model, or brand):



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| Name of the item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quantity |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Optical Table<br>Size: 1.2 m x 2.4 m or similar<br>Steel Honeycomb core structure:<br>0.25 mm thick foil or better<br>Honeycomb cell size: 2.9 cm <sup>2</sup> or better<br>Top skin material: 4 mm thick or higher<br>Bottom skin material: 4.5 mm thick steel or higher<br>Side panel construction: 2.0 mm thick steel plate with highly damped composite wood or similar<br>Core shear modulus: 275,000 psi or better<br>Surface flatness: $\pm 0.1$ mm or better<br>Mounting configuration<br>Thread specification: M6<br>Hole grid pitch: 25 mm pitch or similar<br>Edge distance: 37.5 mm or similar<br>Hole sealing: 21 mm or similar deep cylindrical sealing cap on each hole<br>Passive Support (Automated Pressure & Level Controlled), including compressor (600 mm to 700 mm tall) | 2        |
| <b>Optics and Optomechanics:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| CW laser with tunable power<br>Type: CW<br>Wavelength: 650 nm, 530 nm, 420 nm<br>Laser beam profile: TEM <sub>00</sub><br>Laser beam Spot size diameter: 3 mm or similar<br>Power: max power should reach 200 mW or higher<br>Stability: less than or equal to 3%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 each   |
| Objective lens 50X LWD, 80X LWD, 100X LWD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 each   |
| Ø1" Back Side Polished, Broadband Dielectric Mirror, 400 - 750 nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20       |
| Compact Kinematic Mirror Mount, M4 Taps for Post Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20       |
| Mirror Holder for Ø1" Optics 2.5 - 6.1 mm or similar Thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20       |
| Post Mount Assembly for Round, Unmounted, ND Filters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        |
| Unmounted Continuously Variable ND Filter, Ø50 mm, OD: 0.04 - 2.0 or similar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        |
| Mounted Glan-Laser Polarizer, Ø15 mm CA, Uncoated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2        |
| SM1 Lens Tube Mount for 15 mm Mounted Polarizing Prisms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2        |
| High-Precision Rotation Mount for Ø1" (25.4 mm) Optics, Metric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        |
| 30 mm Cage Cube-Mounted Polarizing Beamsplitter Cube, 420 - 680 nm, M4 Tap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4        |
| Cage Cube Connector for Compact 30 mm Cage Cubes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4        |



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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Right-Angle Kinematic Mirror Mount with Tapped Cage Rod Holes, 30 mm Cage System and SM1 Compatible, M4 and M6 Mounting Holes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3  |
| Adjustable Angle Kinematic Mirror Mount (angle from 0 to 90 degrees) with Tapped Cage Rod Holes, 30 mm Cage System and SM1 Compatible, M4 and M6 Mounting Holes                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3  |
| Piezo stage (XYZ) with controller:<br>course XYZ range:<br>Range: 4 mm or higher<br>Fine manual range: 300 micron or better<br>Manual resolution: 50 micron or better<br>Automated travel:<br>XY range: 150 micron or higher<br>Z range: 20 micron or higher<br>Feedback mechanism: closed loop<br>Bidirectional repeatability: <50 nm or better<br>Resolution: ~10nm or better<br>Mout: M4 and M6                                                                                                                                                                                                                 | 1  |
| Adapter Plate with M6 and M4 Taps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2  |
| 2MP or higher Monochrome CMOS Camera, M6 Taps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1  |
| Si Switchable Gain Detector, 320 - 1100 nm, 11 MHz BW, 75.4 mm <sup>2</sup> , Universal 8-32 / M4 Taps or similar specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1  |
| Ø12.7 mm Universal Post Holder, Spring-Loaded Locking Thumbscrew, L = 50 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 |
| 30 mm Cage Plate with Ø1/2" Double Bore, M4 Tap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1  |
| Slip Ring for SM1 Lens Tubes and C-Mount Extension Tubes, M4 Tap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1  |
| SM1-Threaded Visible and IR Alignment Disk (400 - 640 nm, 800 - 1700 nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3  |
| Adapter with External M6 x 1.0 Threads and External M4 x 0.7 Threads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20 |
| PEM Head:<br><ul style="list-style-type: none"> <li>Optical Material: Fused Silica</li> <li>Frequency, nominal: 50kHz or similar</li> <li>Retardation Wavelength Range: 170 nm - 2 µm (Quarter Wave) 170 nm - 1 µm (half Wave) or similar</li> <li>Useful Aperture: 16mm or similar</li> </ul> PEM Controller:<br><ul style="list-style-type: none"> <li>Operating Frequency 37 kHz to 74 kHz or similar Fixed Frequency, as per the above quoted head</li> <li>Display Resolution: 1 dHz or similar</li> <li>Display Accuracy: 4 dHz or similar</li> <li>Duty Cycle, f and 2f: 50% ± 0.001% or similar</li> </ul> | 1  |
| Standard Solid Breadboards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3  |



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|                                                                                                                                                                                                              |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Length=600 mm, width =400 mm, thickness=10 mm or similar<br>M6 Standard tapped holes on 25mm Grid                                                                                                            |            |
| V- Type Clamps<br>For holding rectangular or cylindrical objects rigidly<br>diameter= 26mm, length= 40mm, width= 25mm, height = 25mm                                                                         | 2          |
| Kinematic diode laser mount<br>For position diode lasers by fine tilting the beam axis in two perpendicular planes<br>Fine adjustment Using 80 tpi leadscrews<br>Maximum diameter of the diode module 25 mm, | 2          |
| All-in-one screw kit                                                                                                                                                                                         | 1          |
| metric set screw<br>M4 Length 6mm, 10mm,12mm,16mm, 20mm,<br>M6 Length 6mm, 10mm, 12mm,16mm,20mm                                                                                                              | 1 set each |
| Metric socket cap screws<br>M4 Length 6 mm,10 mm,12 mm,16 mm,20 mm,25mm,<br>M6 leangth 6 mm,10 mm,12 mm,16 mm, 20 mm,25mm,                                                                                   | 1 set each |
| copper-tipped thumb screws<br>M4 Length 8mm,14mm,22mm                                                                                                                                                        | 1 set each |
| Linear Translation stage<br>M6 Taps @ 25 mm center<br>travel 25mm, 2 micrometer resolution, Carriage Size 90 mm x 90 mm                                                                                      | 10         |
| Adapter Plate<br>90 x 90 mm M6 tapped holes on carriage                                                                                                                                                      | 5          |
| Base plate<br>90 x 90 mm M6 tapped holes on carriage                                                                                                                                                         | 5          |
| Angle Bracket<br>(90° angle bracket used to mount stages vertically for Z-axis or XZ-axis)                                                                                                                   | 5          |
| Vertical Bracket                                                                                                                                                                                             | 5          |
| 12.7mm Pedestal Post Holder<br>12.7mm inner , 25 mm outer diameter length 30 mm with M6 Tap                                                                                                                  | 10         |
| 12.7mm Pedestal Post Holder<br>12.7mm inner , 25 mm outer diameter length 50 mm with M6 Tap                                                                                                                  | 40         |
| 12.7mm Pedestal Post Holder<br>12.7mm inner , 25 mm outer diameter length 75 mm with M6 Tap                                                                                                                  | 15         |
| 12.7mm Pedestal Post Holder<br>12.7mm inner , 25 mm outer diameter length 100 mm with M6 Tap                                                                                                                 | 10         |
| 12.7mm Diameter Posts<br>12.7 mm diameter,non-magnetic stainless steel M4 Tap at one end - M6 tap at other end, length 30 mm                                                                                 | 10         |
| 12.7mm Diameter Posts                                                                                                                                                                                        | 40         |



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|                                                                                                                                                                                    |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 12.7 mm diameter, non-magnetic stainless steel M4 Tap at one end - M6 tap at other end, length 50 mm                                                                               |       |
| 12.7 mm diameter, non-magnetic stainless steel M4 Tap at one end - M6 tap at other end, length 100mm                                                                               | 15    |
| 12.7 mm diameter, non-magnetic stainless steel M4 Tap at one end - M6 tap at other end, length 150mm                                                                               | 10    |
| Plunger knob<br>loaded with a suitable spring, inside M6 stud                                                                                                                      | 1 set |
| 12.7 mm or 0.5 inch Aluminium anodized Post with metric standard mounting holes<br>12.7 mm diameter, aluminium anodised post M4 Tap at one end - M6 tap at other end, length 50 mm | 20    |
| 12.7 mm diameter, aluminium anodised post M4 Tap at one end - M6 tap at other end, length 75 mm                                                                                    | 10    |
| 12.7 mm diameter, aluminium anodised post M4 Tap at one end - M6 tap at other end, length 100 mm                                                                                   | 10    |
| Pedestal Adapter<br>12 mm post system M6 stud for mounting, disc thickness 5mm,                                                                                                    | 10    |
| Pedestal Fork<br>12mm thick, M6 CBR slot, 75mm length                                                                                                                              | 20    |
| Rotation indexing<br>Manual 360° rotation, 0.1 resolution, threaded Bore depth 12mm, M6 mounting holes,<br>10mm travel micrometer                                                  | 2     |
| Rod Assembly System<br>6mm diameter rod, M3 tapped holes at both end length 150mm                                                                                                  | 12    |
| 6mm diameter rod, M3 tapped holes at both end length 200mm                                                                                                                         | 12    |
| 6mm diameter rod, M3 tapped holes at both end length 250mm                                                                                                                         | 8     |
| 6mm diameter rod, M3 tapped holes at both end length 300mm                                                                                                                         | 6     |
| 1" / 25 mm Stepped Bore Optic Plate - Threaded Type<br>M6 tap at 2 place, Ø 6mm cage rod mounting holes ,<br>diameter 25mm<br>thickness 10mm                                       | 10    |
| Through Threaded Optic Plate<br>HM1 threaded optic plate<br>M6 tap at 2 place, Ø 6mm cage rod mounting holes ,<br>diameter 25mm<br>thickness 10mm                                  | 10    |
| 25 mm Unthreaded Optic Plate<br>unthreaded optic plate<br>M6 tapped at 2 places, Ø 6mm cage rod mounting holes<br>diameter 25mm                                                    | 2     |



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|---------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| thickness 10mm                                                                                                                                    |       |
| Fixed Angle Rigid Mirror Holder<br>used for holding optics, post mounting by M6 threaded holes<br>optics size 25 mm/1"<br>angle 45°               | 5     |
| lens tube<br>length L1-125mm , L2-130mm<br>HM1 thread, inner diameter 22mm                                                                        | 2     |
| L1- 100mm, L2-105<br>HM1 thread, inner diameter 22mm                                                                                              | 2     |
| Tilt and Rotation Stage<br>single post clamp , optic size 1" , thickness 21mm<br>mounting hole M6                                                 | 2     |
| Course Rotator<br>Manual 360° coarse rotational adjustment<br>Ø 6mm cage rod mounting holes, inner Ø 22mm, thickness 17mm                         | 5     |
| Lens Tube Assembly System<br>spacer ring for maintaining gap between two optics<br>2mm thickness, Spacer Ring for 25 mm / 1" Optics               | 1 set |
| Threaded Rings (1 set contains 25 nos)<br>threaded ring of thickness 2mm<br>Spacer Ring for 25 mm / 1" Optics<br>HM1 thread , inner diameter 22mm | 1 set |
| Right Angle Post Clamp<br>360° rotatable post clamp, M6 locking knob, diameter of post 12mm                                                       | 20    |
| Top End Right Angle Post Clamp<br>used for clamping to achieve T joint, M6 locking knob, M6 tapped hole<br>in bottom<br>diameter of post 12mm     | 20    |
| Swivel Post Clamp<br>3 degree of freedom for post mounted components,<br>M6 tapped hole in bottom<br>M6 locking knobs<br>diameter of post 12mm    | 10    |
| High Bright white LED source with variable power supply                                                                                           | 1     |
| Variable Aperture<br>for perfect circular aperture ,<br>max. aperture 25mm, minimum aperture 0.8mm, outer diameter 37mm,<br>thickness 5.5mm       | 3     |
| Standard Variable Round Aperture<br>M6 tapped hole mount for SSID series apertures                                                                | 3     |



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|                                                                                                                                    |         |
|------------------------------------------------------------------------------------------------------------------------------------|---------|
| outer diameter 53mm, thickness 8.5, inner diameter 37mm (inner diameter is not maximum aperture, it is greater than max. aperture) |         |
| Post Adapter<br>Male - Female<br>M4-M4<br>M4-M6<br>M6-M4<br>M6-M6                                                                  | 10 each |

*(The above requirements are indicative and may be revised after evaluation of the responses.)*

### 5. Eligibility Criteria

Interested firms should:

- Be an Original Equipment Manufacturer (OEM) or an authorized distributor/dealer.
- Have experience in supplying similar equipment.
- Have adequate installation and after-sales service support in India.

### 6. Information/Documents to be Submitted

The interested firms shall submit the following (*Annexure-I*):

1. Company Profile.
2. Details of the OEM.
3. Product Brochure/Catalogue.
4. Detailed Technical Specifications.
5. Compliance with the Broad Functional Requirements.
6. List of previous users/clients with installation reports
7. Details of Warranty.
8. Details of After-Sales Service Support.
9. Authorization Letter from OEM (where applicable).
10. Any additional technical information relevant to the offered equipment.

### 7. Pro forma Quotation

- Interested firms are requested to submit a Pro forma Quotation (*Annexure-II*) along with their Request For Technical Information and Pro Forma Quotations response. Indicative **Pro Forma** quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training, and any other associated charges. Wherever applicable, the Annual Maintenance Contract (AMC) and/or Comprehensive Maintenance Contract (CMC) charges and spare parts shall be quoted separately as additional charges.
- Expected delivery schedule and other relevant technical and commercial information.



## Important Note:

- The **Pro Forma** quotation is required only for cost estimation and budget planning purposes.
- The prices quoted shall be indicative/non-binding.
- The Pro Forma quotation shall not be treated as a financial bid.
- Submission of a **Pro Forma** quotation shall not confer any right or preference in the subsequent procurement process.

## 8. Presentation/Demonstration

The Institute may invite for a technical presentation or product demonstration. The date and venue shall be communicated separately.

## 9. Submission :

Interested firms may submit their Proforma Quotations on or before the due date in sealed cover or through email (as applicable).

The envelope/email should be superscribed as:

**"Request For Technical Information and Pro forma Quotations for Procurement of**  
\_\_\_\_\_"

## 8. Important Dates

| Activity                             | Date           |
|--------------------------------------|----------------|
| Publication                          | 07-08-2026     |
| Last Date for Submission             | 17-08-2026     |
| Technical Presentation (if required) | To be informed |
| Clarification Meeting (if required)  | To be informed |

## 10. General Terms & Conditions

1. This **Request For Technical Information and Pro forma Quotations** is issued only for obtaining technical information and **Pro Forma** estimates.
2. The Institute reserves the right to accept or reject any or all responses without assigning any reason.
3. Submission of an **Request For Technical Information and Pro forma Quotations** does not create any contractual obligation.
4. The Institute may seek additional information, technical clarifications, demonstrations, or presentations from any participant.
5. The Institute may modify the technical requirements based on the responses received.



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6. The final technical specifications may be prepared by the User Committee after evaluating all **Request For Technical Information and Pro forma Quotations** responses.
7. The subsequent procurement, if any, shall be carried out through an appropriate procurement method in accordance with the GFR 2017 and applicable procurement rules.
8. Participation in this **Request For Technical Information and Pro forma Quotations** does not automatically entitle any firm to participate in or receive any preference during the subsequent tender process.

### 11. Contact Details

**Name:** Dr. Dushyant Kumar

**Designation:** Assistant Professor

**Department:** Physics

**Email:** dushyantkumar@iitj.ac.in



## Annexure-I

### Request For Technical Information and Pro forma Quotations Response Format

1. Name of the Firm:
2. Registered Address:
3. Name of OEM (if applicable):
4. Contact Person:
5. Email:
6. Phone:
7. Product Name and Model:
8. Brief Technical Description:
9. Compliance with Broad Functional Requirements:
10. List of previous users/clients with installation reports:
11. After-Sales Service Details:
12. Any Additional Features:
13. Remarks (if any).



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## Annexure-II

### Format for Pro forma Quotation

| Sl. No. | Description                                                                                                                                                                                                                           | Amount (INR) |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1       | Indicative <b>Pro forma</b> quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training, and any other associated charges. |              |

Warranty Period: \_\_\_\_\_

AMC/CMC Charges (after warranty): \_\_\_\_\_

Delivery Period: \_\_\_\_\_

### Authorized Signatory

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Company Seal & Signature