INDIAN INSTITUTE OF TECHNOLOGY DELHI HAUZ KHAS, NEW DELHI- 110016

Ref. No.: IITD/PHY/RP-02395/OPTMOUNT/2013/JJ.

Date: 08-04-2013

NOTICE INVITING QUOTATIONS

Item Name: Optical Mounts Due Date: 22-04-2013

Quotations are invited for the purchase of **Optical Mounts** as per the specifications given below. **Quotations** along with terms and conditions and **additional details**, should reach by **5 PM** on **22-04-2013**.

SI. No	Name of the Item	specifications	Quantity
1	Electronic Beam Shutter	Shutter Activation Time Open: <1 ms Shutter Activation Time Close: <1.5 ms (Spring Activated) Aperture: Ø0.5" (12.7 mm) Initial State: Closed	01
2	Shutter Controller (compatible with item no.1)	Minimum Exposure Time: ≤ 10 ms Accuracy: 0.1 ms On/ Off Times: 1 ms to 900s	01
3	Air Compressor	Max Duty Cycle: 50% Air Pressure: ≥ 800 kPa (116 psi) Max Air Delivery: ≥ 39 l/min at 8 bar (116 psi) Air Tank Size: ≥ 4 liters Voltage: 220VAC 50 Hz, UK Style Power Connector Noise Level: ≤ 40 dB (A) at 1 m	01
4	Right-Angle Bracket	Counter bored slot for 1/4-20 tapped holes [m6x1.0] Material : Aluminum	04
5	Slim Right-Angle Bracket	Counter bore for 1/4-20[m6x1.0] Material : Aluminum	02
6	25 μm Pinhole	Pinhole Diameter: 25 μm Pinhole Thickness: ≤ 12.5 μm Aluminum Housing with 1" Outer Diameter	02
7	20 µm Pinhole	Pinhole Diameter: 20 μm Pinhole Thickness: ≤ 12.5 μm Aluminum Housing with 1" Outer Diameter	02

8	15 µm Pinhole	Pinhole Diameter: 15 µm	
0	15 µm 1 milliole	Pinhole Thickness: $\leq 12.5 \mu\text{m}$	02
		Aluminum Housing with 1" Outer Diameter	02
		Thumman Housing with F Outer Diameter	
9	Spatial Filter System	Z-Axis Translator Holds Focusing Optics	02
-	With Aspheric Lens and Plano-	XY Translator Houses Pinhole	
	Convex Lens	Extension tube for aspheric focusing lens	
		Aspheric Lens specifications:	
		Effective focal length: 4.51mm	02
		Numerical aperture: 0.55	
		Working distance (lens): 2.92mm	
		Surface quality: 40-20 scratch-dig	
		Magnification: infinite	
		AR Coating: BBAR Ravg<0.5% for 400-	
		600nm	
		Plano-Convex Lens specifications:	
		Lens Shape: Plano / Convex	02
		Surface Quality: 40-20 Scratch-Dig	
		Surface Flatness: $\lambda/2$	
		Clear Aperture: >90% of Diameter	
		Focal Length Tolerance: ±1%	
		Diameter: 25.4 mm	
		f: 50 mm	
10	Frosted Glass Alignment Disk	Diffuser diameter: 12.7mm	01
10	Frosted Glass Anglinent Disk	Center hole diameter: 1.0mm	01
		Scratch-dig: 80-50	
		Service ang. So to	
11	Microscope Objective	Magnification: 40X	02
		Working Distance: $\leq 1 \text{ mm}$	
		Effective Focal Length: $\leq 5 \text{ mm}$	
		Numerical aperture: 0.55	
		Theoretical Focal Spot: $\leq 1 \ \mu m$	
		AR Coating Range: 325-500 nm	
		Damage Threshold : $\geq 50 \text{ MW/cm}^2$	
		Max Reflectivity per Lens Surface: 0.01	
12	Microscope Objective	Magnification: 20X	01
	mieroscope Objective	Working Distance: $\leq 4 \text{ mm}$	01
		Effective Focal Length: $\leq 10 \text{ mm}$	
		Numerical aperture: 0.4	
		Theoretical Focal Spot: $\leq 1 \mu m$	
		AR Coating Range: 325-500 nm	
		Damage Threshold : $\geq 50 \text{ MW/cm}^2$	
		Max Reflectivity per Lens Surface: 0.01	
10		V (ID) D (ASY	
13	Active legs for vibration isolation	Vertical Resonant Frequency: 1.25 Hz	01
	table	Horizontal Resonant Frequency: 1.0 Hz	
		Vertical Transmissibility at Resonance: 10	
		dB	

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		Horizontal Transmissibility at Resonance: 12 dB	
		Vertical Transmissibility at 5Hz: -20 dB (90%)	
		Horizontal Transmissibility at 5Hz: -24 dB (94%)	
		Vertical Transmissibility at 10Hz: -32.5 dB (97.5%)	
		Horizontal Transmissibility at 10Hz: -30 dB (97%)	
		Maximum Load Capacity (set of four): 5500 lb (2500 kg)	
		Height Adjustment Range: -0.51", +0.2" (- 13 mm, +5 mm)	
		Self Leveling Repeatability: ±0.02" (0.5 mm)	
		Height: 27.5" (700 mm)	
		Air Pressure (Maximum): 80 psi (551 kPa)	
14	Alignment Disk for Visible Wavelengths	Tick marks every 1 mm along both the X and Y axes	03
		Material: Black anodized aluminum	
15	Right-Angle Bracket for Ø1" and	Material: Aluminum	01
	Ø2'' Lens Tubes	Mounting slot for ¹ / ₄ (M6) cap screw places	
16	Small Adjustable Clamping Arm	Maximum adjustable height: ≥ 24 mm	02
		Mounting hole depth :5.6mm	
		Nylon tip setscrew for securing optics	
		Threads on Top and Bottom of Post	
17	Large Adjustable Clamping Arm	Maximum adjustable height: \geq 40mm	
		Mounting hole depth: 5.6mm	
		Nylon tip setscrew for securing optics	04
		Threads on Top and Bottom of Post	
18	Periscope Assembly with	Pitch and Yaw Plus Rotation	02
	UV Enhanced Aluminum Mirror	Pedestal Post : \geq 150mm Rotation for Mirrors: 360°	
		45° mirror mount: 2 (with kinematic	
		adjustment)	
		UV Enhanced Aluminum Mirror	
		specifications:	04
		Diameter: Ø1" (25.4 mm)	
		Shape: Round	
		Reflectivity: $R_{avg} > 90\%$ from 250 - 450 nm	
		Substrate: Fused Silica Flatness: λ/10 @ 633 nm	
19	Camera Lens Holder	Standard C-Mount thread	04
17		Material: Aluminum	04
		Diameter :1.660	

Additional Details (without these, quotations will be rejected):

- 1. Furnish brochure cum data sheets for the above specifications from the original manufacturer.
- 2. All items should be from same manufacturer.

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. PRICING: Quote total in F.O.B. price

2. TERMS OF PAYMENT: Letter of credit OR Payment against delivery (Wire Transfer after receipt of item).

3. VALIDITY OF QUOTATIONS: Quotations should be valid at least for a period of 90 days.

4. WARANTY: Mention the warranty period in the quote.

5. DEALERSHIP CERTIFICATE: Letter from manufacturer to be attached for authenticity of dealership/agency. Quotations without authorized dealership certificate will be rejected.

6. PROPRIETARY CERTIFICATE: If the items are proprietary in nature, furnish a copy of the certificate

7. COMPLIANCE STATEMENT: Please include a statement of compliance of all the above specifications

8. INSTITUTE'S RIGHTS: IIT Delhi reserves the rights of acceptance or rejection of any or all quotations.

9. REJECTION: Quotations not conforming to the set procedure as above will be rejected.

10. DISCOUNT/REBATES: Special discount/rebate wherever admissible keeping in view that the supplies is being provided for the educational purpose in respect of public institution of national importance may please be indicated.

11. SUBMISSION OF QUOTATIONS: Quotations should be sent in a sealed cover marked at the top ITEM NAME AND DUE DATE.

Quotations should be sent to:

Prof. Joby Joseph Department of Physics Indian Institute of Technology, Delhi, Hauz Khas New Delhi-110 016 India