

Physics Department
Indian Institute of Technology Delhi

Notice for inviting quotations

Dt: 30-01-2012

Ref: PHYS/UFO/01

Sub: Purchase of optical, optomechanical and optoelectrical components

Please send your quotation for purchase of above said item(s) as per specifications given below. Your quotations should reach latest by **5 PM** on **17-02-2012**. Quotations are solicited only for items manufactured by reputed company with proven past record of sales, supply and after-sale service.

Optical components (All items are to be in <u>metric scale only</u>)		
S.N.	Description	No. required
1	Lens System	
(i)	N-BK 7 Plano Convex lens, 1" dia, f=75mm f=100mm f=150mm f=200mm f=300mm	2 2 2 2 2
(ii)	UV Fused Silica Plano-Convex Lens, 1" dia f=50mm f=100mm f=150mm	2 2 2
(iii)	N-BK 7 Plano Convex lens, 2" dia, f=60mm f=100mm f=150mm f=200mm	2 2 2 2
(iv)	Lens mounts for the above i-iii items SM1 threads Ø1" SM2 threads Ø2"	16 8
(v)	N-BK7 Plano-Convex Lens Set, Ø1" , 14 pc f(mm) = 25.4, 35, 50, 75, 100, 125, 150, 200, 250, 300, 400, 500, 750, and 1000	1set
(vi)	N-BK7 Plano convex cylindrical lens f =75mm; H =50.8mm; L = 53mm f =100mm, H =30mm, L = 60mm	1 1
(vii)	Right handed Kinematic Cylindrical Lens Mount for the above vi item	2
(viii)	Bases & Post Holders (as a Kit in a box) Assorted items Post Holders x150mm x100mm x75mm x50.8mm x40mm	5 5 10 10 10 10

	<p style="text-align: center;">x25mm</p> <p>Mounting Base</p> <p style="text-align: center;">(25x58x10)mm</p> <p style="text-align: center;">(25x75x10)mm</p> <p style="text-align: center;">(50x75x10)mm</p> <p>Locking Thumb Screw</p> <p style="text-align: center;">x5mm</p> <p>Thumb Screw</p> <p>Standard Base Clamp</p>	<p style="text-align: right;">10</p> <p style="text-align: right;">10</p> <p style="text-align: right;">10</p> <p style="text-align: right;">20</p> <p style="text-align: right;">10</p> <p style="text-align: right;">20</p>
(ix)	<p>Standard Posts Ø1/2"</p> <p>(M4 removable stud at one end and M6 tapped hole at another end)</p> <p style="text-align: center;">Lengths=</p> <p style="text-align: center;">20 mm (12.7mm)</p> <p style="text-align: center;">30 mm (")</p> <p style="text-align: center;">40mm (")</p> <p style="text-align: center;">50mm (")</p> <p style="text-align: center;">75mm(")</p> <p style="text-align: center;">100mm(")</p> <p style="text-align: center;">150mm(")</p>	Each 4
(x)	<p style="text-align: center;">Mini Posts 13mm (φ=6mm),</p> <p style="text-align: center;">25mm (")</p> <p style="text-align: center;">38mm (")</p>	Each 2
(xi)	Mini –post holders 19mm, 25, 38, 51mm	Each 2
2	Mirror System	
(i)	10 Pack of Protected Silver Mirrors, Ø1" (Ø25.4 mm)	1 Set
(ii)	10 Pack of UV enhanced Aluminium Mirrors, Ø1" (Ø25.4 mm)	1 Set
(iii)	<p>Kinematic Mount for Ø1" Optics for above</p> <ul style="list-style-type: none"> • Pitch and Yaw Angular Range • of ±4° • Improved 1/4"-80 Adjuster • Screws for Greater Sensitivity • Removable Adjuster • Knobs Expose Hex Sockets 	20
(iv)	<p>Ø1/2" Posts (M4 removable stud at one end and M6 tapped hole at another end)</p> <p style="text-align: center;">×20mm</p> <p style="text-align: center;">×40mm</p> <p style="text-align: center;">×75mm</p> <p style="text-align: center;">×100mm</p>	<p>4</p> <p>4</p> <p>4</p> <p>4</p>
(v)	Complete Laser Port Hole Periscope Assembly Kit, Metric	1
(vi)	Post-Mounted Iris Diaphragm, Max Aperture variable upto Ø25.0 mm opening	2
(vii)	SM1 Adapter for Ø8 mm Collimators	2
(viii)	SM1-Threaded Kinematic Mount for Thin Ø1" Optics	2
3	Filter systems	

(i)	Neutral density (ND) Filters Diameter: Ø2.5"; Wavelength region : (350-1100)nm Thickness: 1.0 ± 0.25 mm (Unmounted) Each 1No. of the following o.d. O.D- 0.1 O.D- 0.2 O.D- 0.5 O.D- 1.0 O.D.- 2.0 O.D.- 3.0	2 sets
(ii)	Long-pass filters : cut-off wavelengths 400, 550, 850, 750 and 980nm , Each 1No. Diameter: Ø2.5"; (mounted)	1 set
(iii)	Short-pass filters , cut-off wavelengths 400, 550, 850, 750 and 980nm , Each 1No. Diameter: Ø2.5"; (mounted)	1set
(iv)	Long-pass filters ; square 2"x2"; cut-off 280nm , 400nm, 435nm, 495nm, 550nm,610nm, 715nm 780nm, 850nm etc. un-mounted, Set of 10 in a storage box.	1set
(v)	Storage boxes for Diameter: Ø2.5" filters (10 slots or more)	3
	Filter wheel with station, for Ø2.5" filters, 6 filter capacity	2
(vi)	Mounted step Variable Circular ND filter, Ø2.5"; with filters of O.D.= 0.04 to 3.0 (assorted)	1
(vii)	Mirror Flip mount with 90° Flip Action	2
4(i)	BEAMSPLITTER Broadband Non-Polarizing Beam Splitter Cube, 400-700 nm range	4
(ii)	BASE Rotatable Cover Plate	2
5	Series Fiber Adapter SM1-to-SMA Adapter (c-mount) 8 SM1-FC adapter (c-mount) 2 SM1-FCA adapter (c-mount) 2	
6	MAGNETIC BASE Full Assembly, 3" (75 mm) x 3" (75 mm) x 1" (25 mm) 1.97" W X 2.32" L X 2.18 " H (50.0 x 58.9 x 55.4 mm) <ul style="list-style-type: none"> • heavy-duty magnetic base has a switchable magnet for quick positioning of • optical components. 	4
7	SCREWS KIT in a box	
(i)	Cap Screw M6-1.0 Cap Screw Kit, Over 1000 Pieces	1
	M3-0.5 Cap Screw, Over 1000 Pieces	1
(ii)	M4-0.7 Cap Screw Kit, Over 1000 Pieces	1

	M6 x 1.0 Setscrews Contains the following M6 x 1.0 Setscrews: 6, 10, 12, 16, 20, 25, 30, and 35 mm long; ten 3 mm Hex Keys.	1
	Hex Keys Set 190 Piece Wrench Kit	3
8	Mechanical Kit: Cage Assemblies and Lens Tubes Contains four rigid steel rods on which optical components can be mounted along a common optical axis Contains: Cage Assembly Rod - 1", Ø6 mm : 4No 0.5" Thick Cage Plate, 30 mm: 3 No. SM1 Lens Tube, 1.00" (25.4 mm) Bore Depth , 5No 30 mm Cage System Cube, 4-Way, 1 No. 30 mm Cage System Alignment Plate with 1 mm Hole , 4No. XY Slip Plate Positioner, Coarse 1 mm, 1No.	1 set
9	Optomechanical parts	
(i)	XYZ translational stage (full assembly) <ul style="list-style-type: none"> • Easily Configured in XZ and XYZ Orientations • 1/4"-20 (M6 x 1.0) Mounting Holes • Travel Range: 25mm, / 10 µm step, Differential Micrometers (manual), • Vertical Load (Max): 20 lbs (9 kg) • Horizontal Load (Max): 90 lbs (41 kg) 	4
(ii)	Translational stage <ul style="list-style-type: none"> • 1" Travel Translation Stage, Micrometer Drive • Left- or Right-Hand Configurable 	4
11	Micro-positioner and parts	
(i)	3-Axis Positioner, W/ Differential Micrometers (manual), 4 mm travel, course: 0.5mm/rev; fine=50 micro m/rev. load = 1 Kg or above	2
(ii)	Replacement Mounting Plate for Flexure Stages [Metric].	2
(iii)	SM1 Compatible Flexure Stage Mount	2
(iv)	5.5mm Riser for Flexure Stage Mounts	2
(v)	Long Mounting Bracket, 56 mm Long	2
(vi)	Standard Waveguide Mount,35mm Length	2
(vii)	Standard V-Groove Fiber Holder	2
(viii)	Package of 6 Magnetic Clamps	2
(ix)	Bag of 15 Cleats	2
12	Optical Chopper System With b0 10-slot[36°] Chopper Blade, Digital display	1
13	Laser Power Meter	
(i)	Compact Power and Energy meter Console, Digital 4" LCD display	1
(ii)	C-Series Thermal Power Sensor, Surface Absorber, 0.19-25µm,10W	1

(iii)	C-Series Standard Power Sensor,Si,200-1100 nm, 50mW	1
13	Temperature controller	
(i)	100 ohm platinum transducer and 10k-ohm thermistor	Each 2No.
(ii)	15W miniature resistive heater, ~20 ohm, 1"x3", 15W@24V, ~3mm dia, upto 300C capability	2 No.
(iii)	General purpose temperature controller for the above, 20-200C±0.1 range, selectable LED/LCD display ramp/soak options,	1No.
14	Safety components	
(i)	Laser safety glasses, (blue, green, orange and amber polycarbonate lenses), CE certified	1 each
(ii)	IR viewing cards, absorption 700nm above absorption	2
	Threaded fluorescing alignment disks for IR adjustment (SM1 threading) >800nm	2

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. Technical requirements

- 1) All items are to be in **metric scale** only.
- 2) The quotation must contain the following details, otherwise quotation cannot be considered.
 - a. The quote must contain all the items at least in **ONE** category.
 - b. The **technical bid must** contain all the required specifications, drawings, graphs of response, transmission/reflection/response spectra of components if any) etc.
 - c. Along with the technical bid, please enclose support documents related to previous sale of the above items(s) within India.
 - d. If the items are of proprietary nature, please provide proprietary certificate from the manufacturer.
 - e. All INDIAN agents must provide agent certificate, IEC and central sales tax certificate.

2. DELIVERY: The rates quoted must be for C.I.F. Delhi (Air Freight) (if required)

3. TERMS OF PAYMENT: **100% post-payment (wire transfer/LC) on delivery and satisfactory installation**

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

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

6. SUBMISSION OF QUOTATIONS: **Both Technical and price bids are to be quoted separately in separate sealed covers. Both these bids** should be sent in a sealed cover marked at the top SUBJECT AND DUE DATE

17-02-2012 by 5PM

Quotations should be sent, on or before due date to:

Prof. Anurag Sharma, Professor
Department of Physics, IIT Delhi, Hauz Khas,
New Delhi 110 016, India.

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Department of Physics, IIT Delhi.