

**Indian Institute of Technology Kanpur
Department of Electrical Engineering**

Enquiry No.: IITK/EE/SG/2015-16/04

Enquiry Date: 03/12/2015

Closing Date: 17/12/2015

Sealed Quotations are invited for multiple optical components as stated below. All parts corresponding to the quotations should be from a single manufacturer for compatibility and maintenance. Any compliance claimed should be supported with necessary data sheet.

| S.No. | Item | Description/Specification | Qty. |
|-------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 | Piezo Controller | 3-Channel, Open-Loop Piezo Controller; BNC Output Connectors with BNC-to-SMC Adapters Included; User-Selectable Output Voltage of 0 - 75 V, 0 - 100 V, or 0 - 150 V | 1 |
| 2 | Halfwave plate | Ø1/2" Mounted Achromatic Half-Wave Plate, Ø1" Mount, 400 - 800 nm | 1 |
| 3 | Broadband Dielectric Mirrors | 10 Pack of Ø1" Broadband Dielectric Mirrors, 400-750 nm | 2 |
| 4 | Variable ND Filter | Mounted Continuously Variable ND Filter, Ø50 mm, OD: 0 - 4.0 | 1 |
| 5 | Protected Silver Mirror | 10 Pack of Ø1" Protected Silver Mirror, 0.24" (6.0 mm) Thick | 1 |
| 6 | Single-Axis Translation Stage with Standard Micrometer | 25 mm Translation Stage with Standard Micrometer, M6 Taps | 2 |
| 7 | Laser safety glasses (1) | Laser Safety Glasses, Amber Lenses, 25% Visible Light Transmission, Universal Style-CE certified laser safety glasses. 180 to 400 nm, OD = 6+ ; 720 to 1090 nm, OD = 5+; 750 to 1064 nm, OD = 7+ | 1 |
| 8 | Piezoelectric actuators | Max Displacement 15 µm, 6.5 x 6.5 x 18 mm | 3 |
| 9 | Dichroic mirror | Ø1" Longpass Dichroic Mirror, 550 nm Cutoff | 2 |
| 10 | 50:50 Non-Polarizing Beamsplitter Cube | 400 - 700 nm, 1/2" | 4 |
| 11 | Laser safety glasses (2) | Laser Safety Glasses, Light Orange Lenses, 48% Visible Light Transmission, Universal Style-CE certified laser safety glasses. 180 to 532 nm, OD = 7+ | 1 |
| 12 | Fiber Collimation Package (1) | 633 nm, f = 10.99 mm, NA = 0.25 FC/PC Fiber Collimation Pkg. | 2 |
| 13 | Fiber Collimation Package (2) | 532 nm, f=10.90 mm, NA=0.25 FC/PC Fiber Collimation Pkg. | 2 |
| 14 | Mounted achromatic doublet | f=200 mm, Ø1" Achromatic Doublet, SM1-Threaded Mount, ARC: 400-700 nm | 2 |
| 15 | Continuous Rotation Mount for Ø1" Optics | Rotation Mount for Ø1" Optics, M4 Tap; Retaining ring included | 1 |
| 16 | Single mode fiber patch cable | Single Mode Fiber Patch Cable, 5 m, 633 nm; Cutoff Wavelength 500-600 nm; cladding: 125 micron. FC/PC 2.0 mm Narrow Key Connectors on Both Ends.Max Attenuation 15dB/km @ 633 nm. Mode-field diameter 3.6 - 5.3 µm @ 633 nm | 1 |

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| 17 | Aspheric lens (1) | f = 15.29 mm; NA = 0.16; Mounted Rochester Aspheric lens; ARC: 350-700 nm | 2 |
| 18 | Aspheric lens (2) | f = 13.86 mm, NA = 0.18; Mounted Geltech Aspheric Lens; ARC 400-600 nm | 2 |
| 19 | UV/VIS Detector Card | wavelength region: 250 - 540 nm; active region dimension: 1.20" x 2.10" (30.5 mm x 53.3 mm) | 1 |
| 20 | VIS/IR Detector Card | wavelength region: 400 - 640 nm; 800 - 1700 nm active region dimension: 1.20" x 2.10" (30.5 mm x 53.3 mm) | 1 |
| 21 | Lens tissue | Lens Tissues, 25 Sheets per Booklet, 50 Booklets in a Closeable Box | 1 |
| 22 | Multi-mode fiber patch cable | Ø105 µm, 0.22 NA, FC/PC-FC/PC Fiber Patch Cable, 5 m Wavelength range: 400-2400 nm; NA: 0.22; core diameter: 105 µm | 2 |
| 23 | Kinematic Base | Complete 25 mm x 25 mm Kinematic Base, Top and Bottom Plates, M4 Counterbores | 5 |
| 24 | Kinematic Prism Mount | Kinematic Prism Mount, Eight M4 Taps | 4 |
| 25 | Aspheric lens (3) | f = 3.1 mm, NA = 0.68 Mounted Geltech Aspheric Lens, AR: 350-700 nm | 4 |
| 26 | Longpass Filter (1) | Longpass Filter, Cut-On Wavelength: 500 nm, Ø1" | 1 |
| 27 | Longpass Filter (2) | Longpass Filter, Cut-On Wavelength: 550 nm, Ø1" | 1 |
| 28 | Shortpass Filter (1) | Shortpass Filter, Cut-Off Wavelength: 750 nm, Ø1" | 1 |
| 29 | Shortpass Filter (2) | Shortpass Filter, Cut-Off Wavelength: 800 nm, Ø1" | 1 |
| 30 | ND filter; OD=2.0 | Reflective 25 mm diameter Neutral density filter; Mounted in a 1" threaded mount; Optical Density: 2.0 | 1 |
| 31 | ND filter; OD=4.0 | Reflective 25 mm diameter Neutral density filter; Mounted in a 1" threaded mount; Optical Density: 4.0 | 1 |
| 32 | Precision pinhole (1) | Ø1" Mounted Precision Pinhole, 50 ± 3 µm Pinhole Diameter | 1 |
| 33 | Precision pinhole (2) | Ø1" Mounted Precision Pinhole, 100 ± 4 µm Pinhole Diameter | 1 |
| 34 | Kinematic mirror Mount (threaded) | Threaded Kinematic Mount for 1" diameter Optics upto 3.5 mm thick; angular range +-4 degree Hardened Steel Inserts. Phosphor Bronze Bushings and Stainless Steel Lead Screws. Fabricated from Black Anodized Aluminum | 10 |
| 35 | ND filter; OD=1.0 | Reflective 25 mm diameter Neutral density filter; Mounted in a 1" threaded mount; Optical Density: 1.0 | 1 |
| 36 | Iris Diaphragm (1) | Post-mounted iris, 0 to 25 mm aperture | 2 |
| 37 | Iris Diaphragm (2) | Post-mounted iris, 0 to 12 mm aperture | 6 |
| 38 | Spanner Wrench (1) | Graduated Length =4.35"; Diameter=2" | 1 |
| 39 | Clamping Fork | Short Clamping Fork, 1.24" Counterbored Slot, Universal, Pack of 5 | 2 |
| 40 | Standard retaining rings | SM1 Retaining Ring for Ø1" Lens Tubes and Mounts, 10 Pack | 1 |
| 41 | Kinematic mirror mount (unthreaded) | Mount for 1" diameter Optics. Hardened Steel Inserts. Phosphor Bronze Bushings and Stainless Steel Lead Screws. Fabricated from Black Anodized Aluminum | 30 |
| 42 | Beam sampler | Ø1/2" UVFS Beam Sampler for Beam Pick-Off, ARC: 650-1050 nm, 3 mm Thick | 2 |

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| 43 | Lens Mount | Lens Mount For 1" Optics, M4 Tap; One Retaining Ring Included | 25 |
| 44 | Studded Pedestal Base Adapter | Ø31.8 mm Studded Pedestal Base Adapter, M6 Thread | 20 |
| 45 | Post (Length=20 mm) | 12.7 mm diameter stainless steel Optical Post, M4 Setscrew, M6 Tap, L = 20 mm, 5 Pack | 2 |
| 46 | Post (Length=30 mm) | 12.7 mm diameter stainless steel Optical Post, M4 Setscrew, M6 Tap, L = 30 mm, 5 Pack | 2 |
| 47 | Post (Length=40 mm) | 12.7mm diameter stainless steel Optical Post, M4 Setscrew, M6 Tap, L = 40 mm, 5 Pack | 4 |
| 48 | Post (Length=50 mm) | 12.7 mm diameter stainless steel Optical Post, M4 Setscrew, M6 Tap, L = 50 mm, 5 Pack | 4 |
| 49 | Post (Length=75 mm) | 12.7mm diameter stainless steel Optical Post, M4 Setscrew, M6 Tap, L = 75 mm, 5 Pack | 4 |
| 50 | Post (Length=100 mm) | 12.7 mm diameter stainless steel Optical Post, M4 Setscrew, M6 Tap, L = 100 mm, 5 Pack | 4 |
| 51 | Post (Length=150 mm) | 12.7mm diameter stainless steel Optical Post, M4 Setscrew, M6 Tap, L = 150 mm, 5 Pack | 2 |
| 52 | Small adjustable clamping arm | Small Adjustable Clamping Arm, M4 Threaded Post | 4 |
| 53 | Adapter for the collimator | Threaded Adapter for 11 mm Cylindrical Components | 4 |
| 54 | Spanner Wrench (2) | Graduated Length =3.88"; Diameter=1" | 1 |
| 55 | Lens tube | Ø1" stackable lens tube; usable thread depth 1"; one retaining ring included | 10 |
| 56 | Lens cell adapter | external threading dim.:1.035"-40; SM1 to M9 x 0.5 lens cell adapter | 6 |
| 57 | Spanner Wrench (3) | Spanner Wrench for an M9 x 0.5 Optics Housing, Length = 1" | 2 |
| 58 | Spanner Wrench (4) | For SM1-Threaded Adapters, Length = 1" | 2 |
| 59 | FC/PC Fiber adapter plate | 1" FC/PC fiber connector adapter plate without thread; compatible with 1" optics | 6 |
| 60 | ESD wrist straps | Fabric Grounding Wrist Strap, Adjustable Circumference, 6 ft Coiled Cord | 2 |
| 61 | Slip-on post collar | ½" slip on post collars, Metric | 20 |
| 62 | 1/2" post holder (L=30mm) | Ø12.7 mm Post Holders, Spring-Loaded Hex-Locking Thumbscrew, L=30 mm, 5 Pack | 2 |
| 63 | 1/2" post holder (L=40mm) | Ø12.7 mm Post Holders, Spring-Loaded Hex-Locking Thumbscrew, L=40 mm, 5 Pack | 2 |
| 64 | 1/2" post holder (L=50mm) | Ø12.7 mm Post Holders, Spring-Loaded Hex-Locking Thumbscrew, L=50 mm, 5 Pack | 2 |
| 65 | 1/2" post holder (L=75mm) | Ø12.7 mm Post Holders, Spring-Loaded Hex-Locking Thumbscrew, L=75 mm, 5 Pack | 2 |
| | | | |

| S.No. | Item | Description/Specification | Qty. |
|-------|----------------------------|-------------------------------------------------------------------------------|------|
| 66 | 1/2" post holder (L=100mm) | Ø12.7 mm Post Holders, Spring-Loaded Hex-Locking Thumbscrew, L=100 mm, 5 Pack | 1 |
| 67 | standard bases (1) | Mounting Base, 25 mm x 75 mm x 10 mm, 5 Pack | 2 |
| 68 | standard bases (2) | Mounting Base, 25 mm x 58 mm x 10 mm, 5 Pack | 2 |
| 69 | standard bases (3) | Mounting Base, 50 mm x 75 mm x 10 mm, 5 Pack | 2 |

Terms and conditions:

1. All items **must be** supplied by one manufacturer for compatibility during assembly of the experiment.
2. All the items **must be** in metric unit unless otherwise mentioned.
3. A single quote should be made with financial and technical specifications. The sealed envelopes with the quote should be superscribed with the inquiry number.
4. The manufacturer's specification sheets for the products **must be** enclosed.
5. Quotations should not be an exact copy of the specifications mentioned above.
6. Quotations should have a minimum validity of 60 days.
7. The goods should be delivered no later than 60 days from the day of the placement of the order from, IIT-K. Particular importance will be given for prompt delivery of the goods. The delivery period should be specifically stated.
8. Maximum educational discount should be applied – these products will be used for research as well as to teach and train students.
9. The institute reserves the right of accepting and rejecting any quotation without assigning any reason.
10. The indenter reserves the right to cancel the tender without being answerable.

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