Notice Inviting Quotation (E-Procurement mode)

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

Dated: 04/11/2016

Open Tender Notice No.IITD/BPHY/(SP-668)/2016

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.

| Details of the item | Purchase of optical and optomechanical components for existing femtosecond lasers. |
|---------------------------------------|--|
| Earnest Money Deposit to be submitted | NIL |
| Warranty | 1 Year |
| Performance security | NIL |

Tender Documents may be downloaded from Central Public Procurement Portal <u>http://eprocure.gov.in/eprocure/app</u>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <u>http://eprocure.gov.in/eprocure/app</u>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission '.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <u>http://eprocure.gov.in/eprocure/app</u> as per the schedule given in the next page.

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).

| <u>S</u> | <u>chedule</u> |
|---|---|
| Name of Organization | Indian Institute of Technology Delhi |
| Tender Type (Open/Limited/EOI/Auction/Single) | Open |
| Tender Category (Services/Goods/works) | Goods |
| Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell) | Supply |
| Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems) | Research equipment |
| Source of Fund (Project) | Project Code: RP02684 |
| Is Multi Currency Allowed | YES |
| Date of Issue/Publishing | 04/11/2016 (17:00 Hrs) |
| Document Download/Sale Start Date | 04/11/2016 (17:00 Hrs) |
| Document Download/Sale End Date | 25/11/2016 (15:00 Hrs) |
| Date for Pre-Bid Conference | |
| Venue of Pre-Bid Conference | |
| Last Date and Time for Uploading of Bids | 25/11/2016 (15:00 Hrs) |
| Date and Time of Opening of Technical Bids | 28/11/2016 (15:00 Hrs) |
| Tender Fee EMD | RsNIL/- (For Tender Fee) RsNIL/-(For EMD) (To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) |
| No. of Covers (1/2/3/4) | 02 |
| Bid Validity days (180/120/90/60/30) | 120 days (From last date of opening of tender) |
| Address for Communication | Prof. Anurag Sharma, Department of Physics, Indian Institute of Technology Delhi Hauz Khas, New Delhi - 110016 |
| Contact No. | (+91)-11- 2659 1326 |
| Fax No. | (+91)-11-2658 1114 |
| Email Address | prakash@physics.iitd.ac.in |

Chairman Purchase Committee (Buyer Member)

Instructions for Online Bid Submission:

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (<u>URL:http://eprocure.gov.in/eprocure/app</u>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

http://eprocure.gov.in/eprocure/app

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<u>http://eprocure.gov.in/eprocure/app</u>) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their userID / password and the password of the DSC / eToken.

SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the

bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page No.2).
- 4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

OR

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ).

- 5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

General Instructions to the Bidders

- 1) The tenders will be received online through portal <u>http://eprocure.gov.in/eprocure/app</u>. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/etoken in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app . Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".
- 3) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

Physics Department Indian Institute of Technology Hauz Khas, New Delhi-110 016

NOTICE INVITING QUOTATIONS

Dated: 04/11/2016

Tender No: UFO-03/2015-16

Subject: Purchase of optical and optomechanical components for existing femtosecond lasers.

Invitation for Tender Offers

Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) or OEM Authorized Dealer for **supply, installation & integration of optical and optomechanical components for existing femtosecond lasers** with one year on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document.

TECHNICAL SPECIFICATION:

| Sl. No. | Item description (all the dimensions are in metric scale only) | Qty. |
|---------|--|-------------------------------|
| | Item 1: Optomechanical accessories (assorted) | 1 set |
| 1.1. | Optical Table having dimensions 1200mm x 2400mm x 203 mm; Symmetrical isotropic construction in all axes, About 5mm stainless steel top and bottom plates; High-density plated steel honeycomb (0.26 mm or better), M6 tapped mounting holes on 25 mm centers (with screw depth >200mm); hole/core sealing with 19mm (or better) non corrosive polymeric material, Individually Sealed Mounting Holes. Surface Flatness: ± 0.1 (500 mm ²) or better; Broadband Damping: dynamic deflection< $2x10^{-3}$ (under >100kG load), total weight ~350-450kg | 2 |
| 1.2. | Overhead Optical Table Shelf compatible to above optical table, Free Standing, for above optical table (typical 245x57cm), load capacity > 125kg, , adjustable height and shelf height, power strips for Indian plugs,. | 2 |
| 1.3. | Set of four pneumatic isolation legs for for above optical table. Vibration isolation with the necessary mounting and clamping accessories. 710 mm height, load capacity > 500Kg/per leg, Horizontal isolation >95% at 10Hz, Vertical isolation >85% at 10Hz, Vertical resonant frequency) 5Hz (22dB) or lower, load capacity =300-1200kg or better, air pressure = 70-80 psi. | 2 sets (4 legs in each) |
| 1.4. | Optical breadboard having dimensions 900 mm x 1500 mm x 110 mm, sealed M6 x 25mm Mounting Holes; about 5 mm stainless steel top and bottom skins with all steel side panels; Core Design: Trussed honeycomb, vertically bonded closed cell construction, 0.25 mm Steel sheet materials, 0.76 mm triple core interface, hole/core sealing with 19mm (or better) non corrosive polymeric material, Broadband damping. Surface Flatness: ±0.1 (over any 500mm ²) or better, Load cap: 100Kg or better | 1 |
| 1.5. | Set of four passive rigid legs (710 mm height and load capacity of $>$ 900kg) for vibration isolation along with the necessary mounting and clamping accessories. Height adjustment with leveling screw option And other necessary accessories. | 1 set (4 legs) |
| 1.6. | Solid Aluminum metric nonmagnetic breadboards with anodized black finish coating, through- drilled with 25 mm M6 holes, Surface Flatness ±1.5 mm over 500 mm ² or better, 4 counterbored through holes for easy mounting. with following dimensions [1] 300 mm x 300 mm x 12.7 mm [2] 300 mm x 450 mm x 12.7 mm | 2 each |

| | [3] 300 mm x 600 mm x 12.7 mm | |
|-------|---|--------|
| 1.7. | Sample stage with 2 Axis Tilt & Rotation Platform. Translational, rotational and tilt movements having static platform stage made of aluminum. Load Capacity 13 lb (> 5.5 Kg) or better, Tip, Tilt, and Rotation (Micrometer operated),. $\pm 4^{\circ}$ (or better), spring-preloaded adjustments to eliminate backlash , M6/M4 tapped holes , having resolution of 3 arc sec or better. | 2 sets |
| 1.8. | Linear translation stage having load capacity of 156 N or better with M6 taps, Vernier micrometer operated, having load capacity 14Kg or better; [1] travel range of ~25 mm [2] travel range of ~50 mm | 2 each |
| 1.9. | Three-Axis (XYZ) Linear Translation Stage with standard micrometer operated (resolution ~ 3 micron better) with angular deviation <200 µrad and load capacity of 150 N or better, Static Platform having ~25 mm travel along all axes and M6 taps | 2 |
| 1.10. | Mechanical metric Kit for Cage Assemblies and Lens Tubes that contains four rigid steel rods on which optical components can be mounted along with a common optical axis in drawer stackable cabinet (contains, not limited to) 1 inch OpticsCage and Guide Rod, 6mm, 4-40 Thread, 2 inch long 1 inch OpticsCage and Guide Rod, 6mm, 4-40 Thread, 3 inch long Lens Tube, 1 inch diameter and ½ inch length Lens Tube, 1 inch diameter and ½ inch length Lens Tube, 1 inch diameter and 2 inch length Lens Tube, 1 inch diameter and ½ inch length Tube Coupler, 1 inch with internal thread Step adapter of ½ inch to 1 inch Tuber Step adapter of 1 inch to 2 inch Tuber RMS Thread adapter, 1 inch Lens Tubes Focusing Lens Tube with 1 inch diameter lenses Retaining Ring, 1 inch Lens Tubes Iris Diaphragm having Aperture range of 1.5 – 25mm with M4 Thread and 14 leaves in aperture wheel, Spanner Wrench, 1inch Lens Tubes Compact Spanner Wrench, 6.35 to 50.8 mm Diameter Optics | 2 sets |
| 1.11. | Continuous 360 degree Polarizer Rotation Mount for 1 inch diameter Optics with Rotating Dial Face and graduation of 2°, M4/M6 tap | 2 |
| 1.12. | Motorized translational stage, Travel range 250 mm, Stepper Motor, Integrated Controller including power supply, M6 Tapped holes for mounting optomechanics; manual keypad and remote control, maximum velocity ~ 50 mm/sec, birectional repeatability of better than 2 micron, Unidirectional repeatability of 1 micron or better; Load capacity of 250 N or better; Axial Load capacity of 40 N or better and Minimum incremental motion 1 micron. Necessary accessories for computer control (along with stand alone software, labview drivers, cables etc.,) should be provided. | 1 |
| 1.13. | Continuous 360 degree motorized (DC servo type) Rotation Mount with controller, for 1 inch Optics with M4 tap. Maximum Rotational velocity of ~20 degrees/sec; Bi-directional Repeatability ± 0.075; Normal Load Capacity of 2 N or better; and Minimum Incremental Motion 0.02 °. Resolution 0.01 ⁰ or better, max. torque 0.1Nm or better, All necessary sample positioners and controller. Necessary sample positioners and computer control accessories (stand alone software, Labview drivers, cables etc.,) should be provided. | 1 |
| 1.14. | Motorized translational stage, 50mm travel, stackable as XY, speed range- variable upto 100mm/s with <1.5 micron reproducibility; birectional repeatability of better than 2 micron, Unidirectional repeatability of 1 micron or better; Load capacity of 250 N or better; Axial Load capacity of 40 N or better and Minimum incremental motion 1 micron or better. Integrated brushless DC servo motor actuators. Compatible adapter plates with M6 and M4 holes (middle, left and right). Necessary Compact brushless DC motor controller, stand alone software, Labview drivers, cables etc. should be provided. | 2 |
| 1.15. | Lens Mount for 1 inch optics, with Internal and External SM1 Threads; Thread Type 1.035-40; Optical Axis height 1.25 inch; clear aperture of 0.9 inch and edge thickness of 3mm, M4 Tap | 20 |
| 1.16. | 1 inch Lens Holder Inner Ring with Thread type 1.063-20; optical axis height of 1.0 inch; sensitivity >300 arc sec and load capacity 0 – 89 N. | 10 |
| 1.10. | | |

| | Translating Lens Mount for (25.4mm) 1 inch Optics with Thread Type 8-32 and M4; Optical Axis | 5 |
|-------|---|----------------|
| .18. | Height 1.0 in.; XY Sensitivity of 0.75 μ m and an addition 5/64 (M2) hex hole in the drive knobs | |
| | allows for optional Allen key adjustment. | |
| .19. | SM1-Threaded Kinematic Mount for Thin 1 inch Optics with Angular Range of $\pm 4^{\circ}$; Sensitivity of | 10 |
| .17. | 3.8 arc sec and Adjustment Screw Thread 100 TPI. | |
| 1.20. | Optics Cage type and adjustable Mirror (25.4mm dia, thickness 6.4mm)mount for 1 inch Diameter | 4 |
| .20. | with 90° folding and adjustment range of $\pm 4^{\circ}$. | |
| 1.21. | Variable Lens Holder, 15-89 mm or better diameter range, V-shaped mounting base. | <mark>4</mark> |
| 1.21. | Mounting Threads: M4 | |
| 1.22. | Dual Filter Holder, for 1 inch filter/optics, Stackable, with Mounting Hole Type and M4 tap | 2 |
| 1.22. | | 1.5 |
| 1.23. | Flip mount adapter with M4 tapped hole, 90 deg flip | 15 |
| | | 10 |
| 1.24. | 90° Flip Mount for 1-inch optics, with M4 tap | 10 |
| 1.05 | Fixed Optical Mount for 1-inch optics with retaining ring; Thread type 8-32 and M4 tap | 20 |
| 1.25. | | |
| | Kinematic v-grove Mount for up to 2" (50.8 mm) Tall and 60.5 mm wide Rectangular Optics with | -14 |
| 1.26. | angular range $\pm 4^{\circ}$, having height adjustment Screw Thread 100 TPI | |
| | Kinematic mirror Mount for 1 inch Optics having angular Range of ±4° made of anodized | 40 |
| .27. | aluminum; Mounting Type Clearance Hole for 8-32 or M4 Screws; Adjustment Screw Thread 100 | |
| | TPI; Knobs Expose Hex Sockets | |
| | Low Drift 1 inch Mirror Mount, with Angular Range of $\pm 7^{\circ}$ made of anodized aluminum; Mounting | 10 |
| 1.28. | Type Clearance Hole for 8-32 or M4 Screws; Adjustment Screw Thread 100 TPI; Screws for Greater | 10 |
| | Sensitivity 3.8 arc sec | |
| | Standard kinematic mirror mounts for 1 inch optics, two axis control with Angular Range of $\pm 4^{\circ}$ | 20 |
| 1.29. | made of anodized aluminum; Mounting Type Clearance Hole for 8-32 or M4 Screws; Adjustment | 20 |
| 1.27. | Screw Thread 100 TPI; Screws for Greater Sensitivity 3.8 arc sec; | |
| | SMA Fiber Adapter Cap with Internal SM1 Thread 1.035"-40 | 10 |
| 1.30. | Swix Hoer Adapter Cap with Internal Swi1 Thread 1.055 -40 | 10 |
| 1 0 1 | FC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread | 10 |
| 1.31. | | |
| 1.00 | Standard Post holder open slotted bases, M6 mounting hole (Both threaded and through holes) | 20 |
| 1.32. | Size 25 mm x 57 mm x 6.4 mm | |
| | Standard Post holder open slotted bases, M6 mounting hole (Both threaded and through holes) and | 20 each |
| | C-Type Bore | |
| 1.33. | [1] 25.4 mm x 73.8 mm x 9.1 mm | |
| | [2] 50.8 mm x 92.2 mm x 9.1 mm | |
| | | |
| | Heavy duty switchable magnetic base ideal for quick setups, turn ON-OFF hand switch with strong | 5 |
| 1.34. | holding forces, with kinematic top plate for repeatable positioning and Non-magnetic mounting | - |
| | surfaces with versatile hole patterns, M6 mounting stud, | |
| | Standard Pedestal Posts stainless steel construction : 1 inch (25.4 mm) diameter with M4 removable | 10 each |
| 1.35. | stud at one end and M6 tapped hole at other end. Heights = 12.7mm, 25.4mm, 58.8, 76.2, 101.6mm | 10 euen |
| 1.55. | along with suitable pedestal clamping forks and pedestal spacers/ extensions of assorted heights | |
| | Standard Stainless steel Posts, 0.5 inch (12.7 mm) diameter with M4 removable stud at one end and | 20 each |
| 1.36. | Standard St | 20 cach |
| | 45 degree mirror mounts for 1 inch optics, mountable on 1 inch mirrors/lens holders, double sided | 10 |
| 1.37. | | 10 |
| | throughput holes and made of anodized aluminum. | 2 sata |
| | Screw thread adapter (assorted, metric) kit | 2sets |
| | [1] External M4 Threads, External M3 Threads [2] External M4 Threads, Internal M3 Threads | |
| .38. | [2] External M4 Threads, Internal M3 Threads | |
| | [3] External M6 Threads, Internal M4Threads | |
| | [4] Internal M3 x 0.5 Threads, External M6 x 1.0 Threads etc., | |
| | [5] Boxed (assorted numbers 5-10) | - |
| | Black oxide steel coated screw kit, with metric socket head cap with thread type M2.5, M3, M4 and | 1set |
| 1.39. | M5 having a length of 6 to 35mm (assorted) and M3 x 0.5 setscrew (6mm long) nuts and washers | |
| | in a box (aprox. 170-200 each) | |
| 1.40 | M4 x 0.7 cap screw kit, (assorted) and M4 x 0.5 setscrew (10-50mm long) in a box (aprox. 200- | 1 set |
| 40 | | |
| 1.40. | 500 each) | |

| | assorted) and M4 x 0.5 setscrew (12 mm, 20 mm long), nuts and washers in a box (aprox. 150- 500 each) | |
|-------|---|----------|
| 1.42. | Universal post Holders with Swivel Base compatible with 0.5 inch diameter optical posts and made of molded composite material (360 deg), hex-locking, lengths required are 25.4 mm, 38.1 mm, 50.8 mm, 76.2 mm | 20 each |
| 1.43. | Bases and Post Holders Essentials Kit, Metric having a cabinet containing (not limited up to) No slip post holder compatible with 0.5 inch optical posts with M6 Thread, heights required are 25.4 mm, 38.1 mm, 50.8 mm, 76.2 mm, 101.6 mm, 152.4 mm. Pack of 10 Adjustable height base clamp with M6 tapped holes Baseplate of dimensions 9.1 mm x 25.4 mm x 73.8mm with both threaded and through holes Slim optical post holder base (made of aluminum material) having height 6.4 mm Baseplate of dimensions 9.1 mm x 50.8 mm x 92.2mm with both threaded and through holes | 1 set |
| 1.44. | Standard Post holders, for 12.7 mm diameter with M6 type thread, Spring-Loaded Locking, L = 38.1 mm , 50.8 mm, 101.6mm, 152.4 mm | 40 each |
| .45. | Right Angle post clamp for 0.5 inch diameter Posts, 5 mm Hex | 20 |
| 1.46. | Mini-Post T- Clamp (Metric), compatible with 0.5 inch optical posts and Fixed 90° Clamp | 30 |
| 1.47. | Right-Angle Post Clamp, Fixed 90° Adapter compatible with 0.5 inch diameter optical posts | 30 |
| 1.48. | Right-Angle Bracket, made of anodized aluminum with both threaded and through holes, Thread type: 1/4-20 (M6) Slot, 8-32, M4, 2-56 Threads | 5 |
| 1.49. | Slip-On Post Collar for 0.5 inch diameter Posts, C-shaped design for easy installation and removal, Metric | 50 |
| 1.50. | Adjustable height short base clamp, made of stainless steel material with M6 tapped holes | 50 |
| 1.51. | Metric Hex Screwdriver Set with mounting stand and extra holes for Allen keys | 1 set |
| 1.52. | Metric Ball-driver tool set including 1.5, 2, 2.5, 3, 4 and 5 mm; having hardened ball tip with M6 socket screws and L- Allen Wrench Kit having sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm. | 2 sets |
| .53. | 9-Piece Color-Coded Hex Key Set, Metric (L- Allen Wrench Kit having sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm.) | 1 set |
| 1.54. | Breadboard Mountable Ball-driver and Tool Caddy Kit, Metric | 1 set |
| .55. | Bench top Organizer with Ball-driver Set of 1.5, 2, 2.5, 3, 4, 5 mm sizes with aluminum as holder material and Dropper Bottles of size 2 oz, Metric | 1 set |
| 1.56. | Metric Ball driver Kit Includes 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, and 5 mm having angled entry < 25% and M6 socket screws | 1 set |
| 1.57. | Lens cleaning Tissues of 4x 6 inch sizes or better, should be atleast 90% non-woven, 1000 Sheets per Box | 10 boxes |
| 1.58. | Cleaning tissue straight tip Hemostat, should be made of Solid Stainless Steel | 2 |
| .59. | Cleanroom cleaning wipes composed of hydroentangled 100% polyester and able to hold atleast 5-8 times its own weight, 1200 wipes per Box, | 5 boxes |
| 1.60. | 4 Wash Bottles (size 8 oz) made of high density polyethylene (HDPE) and 3 Glass Dropper Bottles (size 2 oz) | 2 sets |
| 1.61. | Precision Stainless Steel Tweezer with Carbon-Fiber Tips | 2 |
| .62. | Optic Tweezers with Stainless Steel Body | 2 |
| .63. | Medium Powder-Free Latex Gloves-100 Gloves per pack | 5 packs |
| .64. | Large Powder-Free Latex Gloves-100 Gloves per pack | 5 packs |
| 1.65. | Phase locked optical chopper system with blades and controller for frequency modulation from ~4 Hz to ~10 kHz, Harmonic chopping 2 to 15, sub harmonic chopping of ½ to 1/15, Phase Jitter 0.4° rms, Phase Shifter Range -180° to +179°, Accuracy < 1/5 of least significant digit, Resolution 3 significant digits, and Net Weight 2.59 kg [5.7 lbs], including chopper head or less. Required electronic controller, computer controlled- USB connection (local and remote operation, standalone software, labview drivers, all required cables etc.,) | 1 set |
| | Item 2: Optical elements (assorted) - 1 set | |
| 2.1. | Neutral density (ND) dual filter wheel for the use with fs laser: Dual six position indexed wheel, for 1 inch (25.4mm) diameter optics with base assembly and Mounting Hole Type 1/4-20 Slot. ND filters to be included (25.4 mm diameter) for OD = 0.05 to 3.0 (assorted 9 Nos.) having Damage Threshold >28 W/cm ² CW or better for the wavelength range of 400 – 900nm, with SM1 threaded detachable mounts | 2 sets |
| 2.2. | Neutral density (ND) Filters for the use with fs laser; 1 inch diameter, for wavelength region : VIS (400-2000) nm, having Surface Flatness of 1 λ @ 633 nm, Damage Threshold of ~ 0.7 kW/cm ² (cw), | 1 set |

| | ~20 mJ/cm ² @ 10 nsec pulse. Thickness: 1.1 mm (mounted with SM1 thread) : Each 1No. with ODs: 0.1; 0.2 ; 0.5; 1.0; 2.0; 2.5 | |
|-------|---|--------|
| 2.3. | Optical crown glass metallic Neutral density (ND) Filters (general purpose); 1 inch diameter, for wavelength region: VIS to NIR, Each 1No. with ODs: 0.04; 0.1; 0.2; 0.3; 0.4; 0.5; 1.0; 1.5; 2.0 and 2.5. | 1 set |
| 2.4. | Continuous variable neutral density (ND) filter with OD 0 -4 for wavelength range of $250 - 2500$ nm supplied with appropriate filter wheel and necessary accessories for mounting. Material: UV-grade fused silica material, Thickness: 2.0 ± 0.25 mm, 50 mm diameter, Damage Threshold: ~70 W/cm2 CW or >8 mJ/cm2 with 10 nsec pulses at 1064nm. Surface Quality 60-40 scratch-dig, Wedge ≤ 20 arc sec, and made with Inconel metallic coating, Mounted in a ring with 0.5 inch post that can be fitted onto the standard post holder. | 2 |
| 2.5. | Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter mounted in SM-1 threaded mount. Anti- reflection coating for 400-700 nm (VIS), having Surface Quality 40-20 scratch-dig, Surface Flatness $\lambda/4$. Lenses with following effective focal lengths are required: f = 25.4 mm, 50.2 mm,100 mm and 150 mm) | 5 each |
| 2.6. | Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter mounted in SM-1 threaded mount. Anti- reflection coating for 650-1000nm (NIR), having Surface Quality 40-20 scratch-dig, Surface Flatness $\lambda/4$. Lenses with following effective focal lengths are required: f = 25.4 mm, 50.2 mm,100 mm and 150 mm) | 5 each |
| 2.7. | Plano-Convex Lens, UV-Fused Silica, 1 inch (25.4mm) diameter, high laser damage threshold, with anti-reflection coating for 430-700 nm (VIS), having surface quality 20-10 scratch-dig, surface flatness $\lambda/8$. Mounted in SM-1 threaded mount. (focal length = 50.2 mm, 75.6 mm, 100 and 150 mm, 350mm) | 4 each |
| 2.8. | Plano-Convex Lens, UV-Fused Silica, 1 inch (25.4mm) diameter, high laser damage threshold, with anti-reflection coating for 650-1000 nm, having surface quality 20-10 scratch-dig, surface flatness $\lambda/8$. Mounted in SM-1 threaded mount. (focal length = 50.2 mm, 75.6 mm, 100 and 150 mm, 350mm) | 4 each |
| 2.9. | Plano-Convex Cylindrical Lens, uncoated, 1 inch (25.4 mm) length by 1/2 inch (12.7 mm) width, N-BK7, effective focal length of 12.7 mm, with suitable adjustable Cylindrical Lens Mount which can hold and position cylindrical lenses upto 2 inch height. | 1 |
| 2.10. | Fiber collimating lens package with back focal length (f) \sim 7.8 mm for single mode fiber, clear aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate FC/PC connector | 2 |
| 2.11. | Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of ~ 6 mm, wavelength range 250 – 600 nm, Damage Threshold: 0.3 J/cm ² with 10 ns pulses at 355 nm at 20Hz, Surface Quality 40-20 scratch-dig, Surface Flatness $\lambda/10$ at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 nm | 50 |
| 2.12. | Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness $\lambda/10$ at 632.8 nm, with Angle of incidence 0-15degrees, Average Reflectivity >96% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. | 50 |
| 2.13. | Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. | 2 |
| 2.14. | High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 \pm 12 µm, 0.22 NA, and (2) core diameter of 1000 \pm 15 µm µm, 0.22 NA | 1 each |
| 2.15. | Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370- 2000 nm, surface flatness ~ λ /10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm | 4 |
| 2.16. | Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. [1] Cutoff wavelength 500 ± 5 nm [2] Cutoff wavelength 650 ± 5 nm | 2 each |
| 2.17. | Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7 mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission \geq 80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. | 1 |
| 2.18. | Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519nm, BW~50nm | 1 |
| 2.19. | Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface ($\lambda/10$ or better at 632.8 nm), Reflectivity (Rs) (avg)>99%, | 10 |

| | | 1 |
|-------|---|-------------------|
| | Rp (ave)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsec pulses within the wavelength range. | |
| 2.20. | CW of 1 J/cm2 of better with 10 fisec pulses within the wavelength range. Retroreflector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors to be used in delay lines. The mount should be fixable on standards posts. The specifications of the mirrors in each kit is as following: (1) Pair of 1 inch diameter plane mirrors, wavelength range: 200-700 nm (UV-Vis), surface quality 25-10 scratch-dig; Surface Flatness of λ/10 at 632.8 nm or better; Damage Threshold of 50 W/cm2 (cw), 5 mJ/cm2 (10-ns pulse) or better. (2) Pair of 1 inch diameter protected gold plane mirrors, wavelength range: 650 - 20000 nm, having Surface Quality 15-5 scratch-dig; Surface Flatness λ/10 at 632.8 nm; and Angle of Incidence in the range of 0-45°. (3) Pair of 1 inch diameter broadband enhanced aluminum plane mirrors, wavelength range: 400 - 10000 nm, having Surface Quality 60-50 scratch-dig; Surface Flatness λ/5 at 632.8 nm; and Angle of Incidence in the range of 0-45°. | 1 of each type |
| 2.21. | Plan Achromatic Objectives for wavelength of 400 – 700 nm or better (VIS-NIR), standard RMS threads (0.800-36), Anti-reflecting coating with MgF2 and input beam diameter of 4.0 mm or more. Infinity corrected [1] 10X and 0.25 NA, with working distance of 5.5 mm or more [2] 20X and 0.4 NA, with working distance of 1.7 mm or more [3] 40X and 0.65 NA, with working distance of 0.6 mm or more | 1 of each |
| 2.22. | Linear Polarizer, anti reflection coating ~750-850 nm, diameter 25.4 mm mounted in appropriate holder/mount, Having transmission Tp >79-94% and Surface Quality 40-20 scratch-dig or better, in SM-1 threaded mount. Damage threshold ~ 1000 W/cm2 CW or 6 J/cm2 with 13 nsec pulses at 1064 nm (pass), typical, 30 W/cm2 CW, 0.17 J/cm2 with 13 nsec pulses at 1064 nm (block). Efficiency : Tp/Ts >10,000:1; in the specified wavelength range | 2 |
| 2.23. | Achromatic Half-Wave Plate made of quartz-MgF2, mounted in 1 inch (25.4 mm) diameter mount, wavelength range 400 - 700 nm, Surface Quality of 40-20 scratch-dig, Damage Threshold of 5 J/cm2 with 10 nsec pulses at 1064 nm. Retardation accuracy ~ $\pm \lambda/50$ to $\pm \lambda/100$. | 2 |
| 2.24. | Achromatic Quarter Wave Plate made of quartz-MgF2, mounted in 1 inch (25.4 mm) mount, 400 - 700 nm wavelength range, Surface Quality of 40-20 scratch-dig, Damage Threshold of 5 J/cm2 with 10 nsec pulses at 1064 nm. Retardation accuracy ~ $\pm \lambda/50$ to $\pm \lambda/100$. | 2 |
| 2.25. | Rotation Mount with adaptor for 1 inch diameter optics, and 0.5 inch (12.5 mm) thick optics, 360 degree course (Graduations 2 °) and 10 arc-min precision vernier rotation, M4 tapped hole for hole posting | 4 |
| 2.26. | Mounted Wollaston Prism, 20° Beam Separation for wavelength range $350 - 2300$ nm, Anti reflection Coating for the wavelength range of $650 - 1000$ nm with Extinction Ratio of Tp/Ts > 100,000:1 and Surface Quality of 20-10. Mounted in appropriate mount with outer diameter of 1 inch. | 2 |
| 2.27. | Mounted 1 inch Polarizing Beamsplitter Cube with antireflection coating for 420 - 680 nm supplied in appropriate mount. Reflected Beam Deviation of 90° ±5 arc min, Damage Threshold 2000 W/cm2 CW, 1 J/cm2 with a 10 nsec pulse, Extinction Ratio of Tp/Ts >500:1. | 2 |
| 2.28. | SM1 lever actuated iris diaphragm for beam diameter, (1) minimum of ~0.5 mm to maximum ~12 mm and (ii) minimum of ~1 mm to max of ~25 mm. Supplied with proper post of thickness 0.5 inch. | 5 each |
| 2.29. | Mounted zero aperture iris with maximum aperture size of (a) ~12 mm and (b) ~25 mm. Supplied with 0.5 inch thick post. | 5 each |
| 2.30. | Scanning slit optical beam profiler. Wavelength range 190-1100nm, beam diameters ~100micron to ~9mm. Pixel Size of ~9.9 x 9.9 μ m with ~640x480 pixels, Saturation Intensity of >2 μ W/cm2. Supplied with controller and other accessories (computer controller, standalone software, labview drivers, cables etc.,). | 1 |
| 2.31. | VIS/IR cards of 1.25 x 3.25 inch. Wavelength range 800 nm-1700nm, where Sensor Size should be 0.5 x 0.5 inch or larger. | 4 |
| 2.32. | Laser Safety Glasses made of polycarbonate material, i. UV safety, Light Orange Lenses, 190 to 532 nm, OD = 7+ (50% VLT) ii. IR safety, Green Lenses, 810nm-1100nm, OD>7+, 190-420 nm - OD>9, @1064 OD>10. 32% Visible Light Transmission, | 5 each |
| | Item 3: Optical detectors (assorted) - 1 set | |

| 3.1. | UV enhanced Silicon high speed and biased detector for wavelength 200-1100nm with ~1.5 ns rise time or better, Responsivity >0.5 A/W @ 830 nm, Bandwidth 200 MHz, Saturation Current of 2.5 mA or better. SM1 mountable, mounting holes 8-32 Taps. BNV output connector, Active area ~ 2mm or larger diameter, NEP < 0.1 pW/sqrt(Hz). With compatible power supply or batteries. | 4 |
|------|---|---|
| 3.2. | Large area balanced amplified Si photo detector for wavelength 400-1050 nm. Common-mode noise rejection by 40 dB. Rise time of 500 ns or shorter, Bandwidth > 1 MHz, Active area of the detector ~ 8 mm diameter. Output connector BNC type, NEP < 90 pW/sqrt(Hz), responsivity 0.6 A/W @ 920 nm or better, Detector diameter of 8 mm or better, Conversion Gain of Maximum 1.2 x 10^6 V/W. Supplied with appropriate DC regulated power supply and computer interface. | 2 |

<u>The quotations will be technically qualified only if the OEM/OEM Authorized Dealer quotes</u> <u>ALL Items and are to be from single OEM. This is part of technical requirement.</u>

A complete set of tender documents* may be Download by prospective bidder free of cost from the website <u>http://eprocure.gov.in/eprocure/app</u>. Bidder has to make payment of requisite fees (i.e. Tender fees (if any) and EMD) online through RTGS/NEFT only.

Terms & Conditions Details

| Sl.No. | Specification |
|--------|--|
| 1. | Due date: The tender has to be submitted on-line before the due date. The offers received after the |
| | due date and time will not be considered. No manual bids will be considered. |
| 2. | Preparation of Bids: The offer/bid should be submitted in two bid systems (i.e.) Technical bid |
| | and financial bid. The technical bid should consist of all technical details along with commercial |
| | terms and conditions. Financial Bids to be submitted in PDF format. |
| | The Technical bid and the financial bid should be submitted Online. |
| 3. | EMD (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The |
| | Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. |
| | The EMD will be refunded without any interest to the unsuccessful bidders after the award of |
| | contract. Refer to Schedule (at page 2 of this document) for its actual place of submission. |
| 4. | Refund of EMD: The EMD will be returned to unsuccessful Tenderer only after the Tenders are |
| | finalized. In case of successful Tenderer, it will be retained till the successful and complete |
| | installation of the equipment. |
| 5. | Opening of the tender : The online bid will be opened by a committee duly constituted for this |
| | purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened as |
| | mentioned at "Annexure: Schedule" in presence of bidders representative if available. Only one |
| | representative will be allowed to participate in the tender opening. Bid received without EMD (if |
| | present) will be rejected straight way. The technical bid will be opened online first and it will be |
| | examined by a technical committee (as per specification and requirement). The financial offer/bid |
| | will be opened only for the offer/bid which technically meets all requirements as per the specification, and will be opened in the presence of the vendor's representatives subsequently for |
| | further evaluation. The bidders if interested may participate on the tender opening Date and Time. |
| | The bidder should produce authorization letter from their company to participate in the tender |
| | opening. |
| 6. | Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers |
| 0. | without assigning any reason. |
| | |

| 7. | Pre-qualification criteria: |
|-----|--|
| | (i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original |
| | equipment manufacturer (OEM) on the same and specific to the tender should be enclosed. |
| | (ii) An undertaking from the OEM is required stating that they would facilitate the bidder on a |
| | regular basis with technology/product updates and extend support for the warranty as well. (Ref. |
| | Annexure-II) |
| | (iii) OEM should be internationally reputed Branded Company. |
| | (iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the |
| | specifications, contradiction between bidder specification and supporting documents etc. may lead |
| | |
| | to rejection of the bid. |
| | (v) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself |
| | can bid but both cannot bid simultaneously for the same item/product in the same tender. |
| | (vi) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid |
| | on behalf of another Principal/OEM in the same tender for the same item/product. |
| 8. | Performance Security: The supplier shall require to submit the performance security in the form |
| | of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is |
| | stated at page #2 of the tender document within 21 days from the date of receipt of the purchase |
| | order/LC and should be kept valid for a period of 60 days beyond the date of completion of |
| | warranty period. |
| 9. | Force Majeure: The Supplier shall not be liable for forfeiture of its performance security, |
| | liquidated damages or termination for default, if and to the extent that, it's delay in performance or |
| | other failure to perform its obligations under the Contract is the result of an event of Force Majeure. |
| | |
| | • For purposes of this Clause, "Force Majeure" means an event beyond the control of the |
| | Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events |
| | may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual |
| | capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight |
| | embargoes. |
| | • If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing |
| | of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in |
| | writing, the Supplier shall continue to perform its obligations under the Contract as far as is |
| | reasonably practical, and shall seek all reasonable alternative means for performance not |
| | prevented by the Force Majeure event. |
| 10. | Risk Purchase Clause : In event of failure of supply of the item/equipment within the stipulated |
| | delivery schedule, the purchaser has all the right to purchase the item/equipment from the other |
| | source on the total risk of the supplier under risk purchase clause. |
| 11. | Packing Instructions: Each package will be marked on three sides with proper paint/indelible ink, |
| | the following: |
| | i. Item Nomenclature |
| | ii. Order/Contract No. |
| | iii. Country of Origin of Goods |
| | iv. Supplier's Name and Address |
| | v. Consignee details |
| | vi. Packing list reference number |
| 12 | - |
| 12. | Delivery and Documents: Delivery of the goods should be made within a maximum of 0% to 16 weaks from the data of |
| | Delivery of the goods should be made within a maximum of 08 to 16 weeks from the date of |
| | placement of purchase order and the opening of LC. Within 24 hours of shipment, the supplier shall |
| | notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the |
| | shipment including contract number, railway receipt number/ AAP etc. and date, description of |
| | goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents |

| | to the purchaser with a copy to the insurance company: |
|-----|---|
| | 1. 4 Copies of the Supplier invoice showing contract number, goods' description, quantity |
| | 2. unit price, total amount; |
| | 3. Insurance Certificate if applicable; |
| | 4. Manufacturer's/Supplier's warranty certificate; |
| | 5. Inspection Certificate issued by the nominated inspection agency, if any |
| | 6. Supplier's factory inspection report; and |
| | 7. Certificate of Origin (if possible by the beneficiary); |
| | 8. Two copies of the packing list identifying the contents of each package. |
| | 9. The above documents should be received by the Purchaser before arrival of the Goods (except |
| | where the Goods have been delivered directly to the Consignee with all documents) and, if not |
| | received, the Supplier will be responsible for any consequent expenses. |
| 13. | Delayed delivery: If the delivery is not made within the due date for any reason, the Committee |
| 15. | will have the right to impose penalty 1% per week and the maximum deduction is 10% of the |
| | |
| 1.4 | contract value / price. |
| 14. | Prices : The price should be quoted in net per unit (after breakup) and must include all packing |
| | and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by |
| | the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated. |
| | The price should be quoted without custom duty and excise duty, since IIT Delhi is exempted |
| | from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary |
| | certificate will be issued on demand. |
| | In case of imports, the price should be quoted on FOB Basis only. Under special |
| | circumstances, when the item is imported on CIF/CIP, please indicate CIF/CIP charges separately |
| | upto IIT Delhi indicating the mode of shipment. IIT Delhi will make necessary arrangements for |
| | the clearance of imported goods at the Airport/Seaport. Hence the price should not include the |
| | above charges. |
| 15. | Notices: For the purpose of all notices, the following shall be the address of the Purchaser and |
| | Supplier. |
| | Purchaser: |
| | Prof. Anurag Sharma, |
| | Department of Physics |
| | Indian Institute of Technology Delhi |
| | Hauz Khas, New Delhi - 110016. |
| | Hauz Kilas, New Delli - 110010. |
| | Supplier (To be filled in by the supplier) |
| | Supplier: (To be filled in by the supplier) |
| | (All supplier's should submit its supplies information as per Annexure-II). |
| | |
| | |
| 16 | |
| 16. | Progress of Supply : Wherever applicable, supplier shall regularly intimate progress of supply, in |
| | writing, to the Purchaser as under: |
| | 1. Quantity offered for inspection and date; |
| | 2. Quantity accepted/rejected by inspecting agency and date; |
| | 3. Quantity dispatched/delivered to consignees and date; |
| | 4. Quantity where incidental services have been satisfactorily completed with date; |
| | 5. Quantity where rectification/repair/replacement effected/completed on receipt of any |
| | communication from consignee/Purchaser with date; |
| | 6. Date of completion of entire Contract including incidental services, if any; and |
| | 7. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details |
| | required may also be specified). |
| | required may also be specifical. |

| 17. | Inspection and Tests: Inspection and tests prior to shipment of Goods and at final acceptance are as follows: |
|-----|---|
| | After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser shall be present at the supplier's premises during such inspection and testing if need is felt. The location where the inspection is required to be conducted should be clearly indicated. The supplier shall inform the purchaser about the site preparation, if any, needed for installation of the goods at the purchaser's site at the time of submission of order acceptance. The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure |
| | of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified. |
| | • In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser. |
| | Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier. |
| 18. | Resolution of Disputes : The dispute resolution mechanism to be applied pursuant shall be as |
| | follows: In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the <u>Director, Indian Institute of Technology (IIT) Delhi</u> and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order. In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled |
| | by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The venue of the arbitration shall be the place from where the order is issued. |
| 19. | Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA. |
| 20. | Right to Use Defective Goods If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation. |
| 21. | Supplier Integrity The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract |

| 22. | Training |
|-----|---|
| 22. | The Supplier is required to provide training to the designated Purchaser's technical and end user |
| | personnel to enable them to effectively operate the total equipment. |
| 23. | Installation & Demonstration |
| | The supplier is required to done the installation and demonstration of the equipment within one |
| | month of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be |
| | the same as per the supply of materials. |
| | |
| | In case of any mishappening/damage to equipment and supplies during the carriage of supplies |
| | from the origin of equipment to the installation site, the supplier has to replace it with new |
| | equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance |
| | company as per his convenience. IITD will not be liable to any type of losses in any form. |
| 24. | Insurance: For delivery of goods at the purchaser's premises, the insurance shall be obtained by the |
| | supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" |
| | (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be |
| | valid for a period of not less than 3 months after installation and commissioning. In case of orders |
| | placed on FOB/FCA basis, the purchaser shall arrange Insurance. If orders are placed on CIF/CIP basis, the insurance should be up to IIT Delhi. |
| 25. | Incidental services: The incidental services also include: |
| 23. | |
| | • Furnishing of 01 set of detailed operations & maintenance manual (if any). |
| | • Arranging the shifting/moving of the item to their location of final installation within IITD |
| | premises at the cost of Supplier through their Indian representatives. |
| 26. | Warranty: |
| | (i) Warranty period shall be (as stated at page #2 of this tender) from date of installation of Goods |
| | at the IITD site of installation. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the |
| | Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its |
| | discretion make such changes, modifications, and/or additions to the Goods or any part thereof |
| | as may be necessary in order to attain the contractual guarantees specified in the Contract at its |
| | own cost and expense and to carry out further performance tests. The warranty should be |
| | comprehensive on site. |
| | (ii) The Purchaser shall promptly notify the Supplier in writing of any claims arising under |
| | this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 |
| | days arrange to repair or replace the defective goods or parts thereof free of cost at the |
| | ultimate destination. The Supplier shall take over the replaced parts/goods at the time of |
| | their replacement. No claim whatsoever shall lie on the Purchaser for the replaced |
| | parts/goods thereafter. The period for correction of defects in the warranty period is 02 days. |
| | If the supplier having been notified fails to remedy the defects within 02 days, the purchaser |
| | may proceed to take such remedial action as may be necessary, at the supplier's risk and |
| | expenses and without prejudice to any other rights, which the purchaser may have against the |
| | supplier under the contract. |
| | (iii) The warranty period should be clearly mentioned. The maintenance charges (AMC) under |
| | different schemes after the expiry of the warranty should also be mentioned. The |
| | comprehensive warranty will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing |
| | installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components |
| | workmanship and poor quality of the components. (iv) After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive |
| | Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC |
| | charges will not be included in computing the total cost of the equipment. |
| | charges will not be included in computing the total cost of the equipment. |

| 27. | Governing Language |
|-----|---|
| 27. | The contract shall be written in English language. English language version of the Contract shall |
| | govern its interpretation. All correspondence and other documents pertaining to the Contract, which |
| | are exchanged by the parties, shall be written in the same language. |
| 28. | Applicable Law |
| 20. | The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes |
| | shall be subject to place of jurisdiction. |
| 20 | |
| 29. | Notices Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other |
| | party's address. |
| | • A notice shall be effective when delivered or on the notice's effective date, whichever is |
| | later. |
| 30. | Taxes |
| | Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, VAT in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order. |
| 31. | Duties |
| | IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the chirment in the neme of |
| | information and Custom Duty Exemption Certificate will be issued to the shipment in the name of |
| | the Institute, no certificate will be issued to third party: |
| | a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists) |
| | b) Forwarder details i.e. Name, Contact No., etc. |
| | IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate |
| | will be provided for which following information are required. |
| | b) Quotation with details of Basic Price, Rate, Tax & Amount on which ED is applicable |
| | c) Supply Order Copy |
| | d) Proforma-Invoice Copy. |
| 32. | Agency Commission: Agency commission if any will be paid to the Indian agent in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in case of Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. |
| 33. | Payment: |
| | (i) For imported items Payment will be made through irrevocable Letter of Credit (LC). Letter |
| | of Credit (LC) will be established in favour of foreign Supplier after the submission of |
| | performance security. The letter of credit (LC) will be established on the exchange rates as |
| | applicable on the date of establishment. For Imports, LC will be opened for 100% FOB/CIF |
| | value. 80% of the LC amount shall be released on presentation of complete and clear shipping |
| | documents and 20% of the LC amount shall be released after the installation and |
| | demonstration of the equipment at the INST site of installation in faultless working condition |
| | for period of 60 days from the date of the satisfactory installation and subject to the |
| | |
| | production of unconditional performance bank guarantee as specified in Clause 8 of tender |
| | terms and conditions. |
| | (ii) For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery, |
| | inspection, successful installation, commissioning and acceptance of the equipment at IITD in |
| | good condition and to the entire satisfaction of the Purchaser and on production of |

| | unconditional performance bank guarantee as specified in Clause 9 of tender terms and conditions. |
|-----|--|
| | (iii) Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items. |
| | (iv) All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier. |
| 34. | User list: Brochure detailing technical specifications and performance, list of industrial and |
| | educational establishments where the items enquired have been supplied must be provided. (Ref. Annexure-III) |
| 35. | Manuals and Drawings |
| 55. | (i) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications. (ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract. (iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser. |
| 36. | Application Specialist : The Tenderer should mention in the Techno-Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office. (Ref. to Annexure-III) |
| 37. | Site Preparation: The supplier shall inform to the Institute about the site preparation, if any, |
| | needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter. The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements. |
| 38. | Spare Parts |
| | The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier: ii. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and iii. In the event of termination of production of the spare parts: |
| | iv. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and |
| | v. Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested. |
| | Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be |
| 20 | supplied as promptly as possible but in any case within six months of placement of order. |
| 39. | Defective Equipment : If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The |
| | prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, |

| | shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, IIT Delhi may consider "Banning" the supplier. |
|-----|--|
| 40. | Termination for Default The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part: If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or If the Supplier fails to perform any other obligation(s) under the Contract. If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. |
| | For the purpose of this Clause: "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;"" |
| | • In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated. |
| 41. | Shifting : After 1-2 years once our new Academic Block will be ready, the supplier has to shift and reinstall the instrument free of cost (if required). |
| 42. | Downtime: During the warranty period not more than 5% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed. Downtime will be counted from the date and time of the filing of complaint with in the business hours. |
| 43. | Training of Personnel: The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost. |
| 44. | Disputes and Jurisdiction : Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within New Delhi. |
| 45. | Compliancy certificate : This certificate must be provided indicating conformity to the technical specifications. (Annexure-I) |
| 46. | "In case of CIF/CIP shipments, kindly provide the shipment information at least 2 days in advance before landing the shipment along with the documents i.e. invoice, packing list, forwarder Name, address, contact No. in India to save demurrage charges (imposed by Indian Customs). Otherwise these charges will be recovered from the supplier/Indian Agent." |

COMPLIANCE SHEET

TECHNICAL SPECIFICATION

| Sl. No. | Item description (all the dimensions are in metric scale only) | Complia nce Y/N |
|---------|--|-----------------------|
| | Item 1: Optomechanical accessories (assorted) | |
| 1.66. | Optical Table having dimensions 1200mm x 2400mm x 203 mm; Symmetrical isotropic construction in all axes, About 5mm stainless steel top and bottom plates; High-density plated steel honeycomb (0.26 mm or better), M6 tapped mounting holes on 25 mm centers (with screw depth >200mm); hole/core sealing with 19mm (or better) non corrosive polymeric material, Individually Sealed Mounting Holes. Surface Flatness: ± 0.1 (500 mm^2) or better; Broadband Damping: dynamic deflection< $2x10^{-3}$ (under >100kG load), total weight ~ $350-450 \text{kg}$ | |
| 1.67. | Overhead Optical Table Shelf compatible to above optical table, Free Standing, for above optical table (typical 245x57cm), load capacity > 125kg, , adjustable height and shelf height, power strips for Indian plugs,. | |
| 1.68. | Set of four pneumatic isolation legs for for above optical table. Vibration isolation with the necessary mounting and clamping accessories. 710 mm height, load capacity > 500Kg/per leg, Horizontal isolation >95% at 10Hz, Vertical isolation >85% at 10Hz, Vertical resonant frequency) 5Hz (22dB) or lower, load capacity =300-1200kg or better, air pressure = 70-80 psi. | |
| 1.69. | Optical breadboard having dimensions 900 mm x 1500 mm x 110 mm, sealed M6 x 25mm Mounting Holes; about 5 mm stainless steel top and bottom skins with all steel side panels; Core Design: Trussed honeycomb, vertically bonded closed cell construction, 0.25 mm Steel sheet materials, 0.76 mm triple core interface, hole/core sealing with 19mm (or better) non corrosive polymeric material, Broadband damping. Surface Flatness: ±0.1 (over any 500mm ²) or better, Load cap: 100Kg or better | |
| 1.70. | Set of four passive rigid legs (710 mm height and load capacity of $>$ 900kg) for vibration isolation along with the necessary mounting and clamping accessories. Height adjustment with leveling screw option And other necessary accessories. | |
| 1.71. | Solid Aluminum metric nonmagnetic breadboards with anodized black finish coating, through-drilled with 25 mm M6 holes, Surface Flatness ±1.5 mm over 500 mm² or better, 4 counterbored through holes for easy mounting . with following dimensions 300 mm x 300 mm x 12.7 mm 300 mm x 450 mm x 12.7 mm 300 mm x 600 mm x 12.7 mm | |
| 1.72. | Sample stage with 2 Axis Tilt & Rotation Platform. Translational, rotational and tilt movements having static platform stage made of aluminum. Load Capacity 13 lb (>5.5Kg) or better, Tip, Tilt, and Rotation (Micrometer operated),. $\pm 4^{\circ}$ (or better), spring-preloaded adjustments to eliminate backlash, M6/M4 tapped holes, having resolution of 3 arc sec or better. | |
| 1.73. | Linear translation stage having load capacity of 156 N or better with M6 taps, Vernier micrometer operated, having load capacity 14Kg or better; [3] travel range of ~25 mm [4] travel range of ~50 mm | |
| 1.74. | Three-Axis (XYZ) Linear Translation Stage with standard micrometer operated (resolution ~ 3 micron better) with angular deviation <200 µrad and load capacity of 150 N or better, Static Platform having ~25 mm travel along all axes and M6 taps | |
| 1.75. | Mechanical metric Kit for Cage Assemblies and Lens Tubes that contains four rigid steel rods on which optical components can be mounted along with a common optical axis in drawer stackable cabinet (contains, not limited to) 1 inch OpticsCage and Guide Rod, 6mm, 4-40 Thread, 2 inch long 1 inch OpticsCage and Guide Rod, 6mm, 4-40 Thread, 3 inch long Lens Tube, 1 inch diameter and ½ inch length Lens Tube, 1 inch diameter and 1 inch length | |

| | Lens Tube, 1 inch diameter and 2 inch length | |
|-------|--|--|
| | Lens Tube, $\frac{1}{2}$ inch diameter and $\frac{1}{2}$ inch length | |
| | Tube Coupler, 1 inch with internal thread | |
| | Step adapter of 1/2 inch to 1 inch Tuber | |
| | Step adapter of 1 inch to 2 inch Tuber | |
| | RMS Thread adapter, 1 inch Lens Tubes | |
| | Focusing Lens Tube with 1 inch diameter lenses | |
| | Retaining Ring, 1 inch Lens Tubes | |
| | Iris Diaphragm having Aperture range of 1.5 – 25mm with M4 Thread and 14 leaves in aperture wheel, | |
| | Spanner Wrench, 1inch Lens Tubes | |
| | Compact Spanner Wrench, 6.35 to 50.8 mm Diameter Optics | |
| | Continuous 360 degree Polarizer Rotation Mount for 1 inch diameter Optics with Rotating Dial Face | |
| 1.76. | and graduation of 2°, M4/M6 tap | |
| | Motorized translational stage, Travel range 250 mm, Stepper Motor, Integrated Controller including | |
| | power supply, M6 Tapped holes for mounting optomechanics; manual keypad and remote control, | |
| 1.77. | maximum velocity ~ 50 mm/sec, birectional repeatability of better than 2 micron, Unidirectional | |
| 1.//. | repeatability of 1 micron or better; Load capacity of 250 N or better; Axial Load capacity of 40 N or | |
| | better and Minimum incremental motion 1 micron. Necessary accessories for computer control | |
| | (along with stand alone software, labview drivers, cables etc.,) should be provided. | |
| | Continuous 360 degree motorized (DC servo type) Rotation Mount with controller, for 1 inch | |
| | Optics with M4 tap. Maximum Rotational velocity of ~ 20 degrees/sec; Bi-directional Repeatability \pm 0.075; Normal Load Capacity of 2 N or batter; and Minimum Incremental Motion 0.02°. Possibility | |
| 1.78. | 0.075; Normal Load Capacity of 2 N or better; and Minimum Incremental Motion 0.02° . Resolution 0.01° or better, max. torque 0.1Nm or better, All necessary sample positioners and controller. | |
| | Necessary sample positioners and computer control accessories (stand alone software, Labview | |
| | drivers, cables etc.,) should be provided. | |
| | Motorized translational stage, 50mm travel, stackable as XY, speed range- variable upto 100mm/s | |
| | with <1.5 micron reproducibility; birectional repeatability of better than 2 micron, Unidirectional | |
| | repeatability of 1 micron or better; Load capacity of 250 N or better; Axial Load capacity of 40 N or | |
| 1.79. | better and Minimum incremental motion 1 micron or better. Integrated brushless DC servo motor | |
| | actuators. Compatible adapter plates with M6 and M4 holes (middle, left and right). Necessary | |
| | Compact brushless DC motor controller, stand alone software, Labview drivers, cables etc. should be | |
| | provided. | |
| 1.80. | Lens Mount for 1 inch optics, with Internal and External SM1 Threads; Thread Type 1.035-40; | |
| | Optical Axis height 1.25 inch; clear aperture of 0.9 inch and edge thickness of 3mm, M4 Tap 1 inch Lens Holder Inner Ring with Thread type 1.063-20; optical axis height of 1.0 inch; sensitivity | |
| 1.81. | >300 arc sec and load capacity $0 - 89$ N. | |
| 1.02 | Optics holder Cell for 1 inch diameter optics with Outer Ring, M4 Tap | |
| 1.82. | | |
| | Translating Lens Mount for (25.4mm) 1 inch Optics with Thread Type 8-32 and M4; Optical Axis | |
| 1.83. | Height 1.0 in.; XY Sensitivity of 0.75 μ m and an addition 5/64 (M2) hex hole in the drive knobs | |
| | allows for optional Allen key adjustment. | |
| 1.84. | SM1-Threaded Kinematic Mount for Thin 1 inch Optics with Angular Range of $\pm 4^{\circ}$; Sensitivity of 2.8 are see and Adjustment Sergy Thread 100 TPL | |
| | 3.8 arc sec and Adjustment Screw Thread 100 TPI. | |
| 1.85. | Optics Cage type and adjustable Mirror (25.4mm dia, thickness 6.4mm)mount for 1 inch Diameter with 90° folding and adjustment range of $\pm 4^{\circ}$. | |
| | Variable Lens Holder , 15-89 mm or better diameter range , V-shaped mounting base. | |
| 1.86. | Mounting Threads: M4 | |
| 1.87. | Dual Filter Holder, for 1 inch filter/optics, Stackable, with Mounting Hole Type and M4 tap | |
| 1.0/. | | |
| 1.88. | Flip mount adapter with M4 tapped hole, 90 deg flip | |
| 1.89. | 90° Flip Mount for 1-inch optics, with M4 tap | |
| 1.07. | | |
| 1.90. | Fixed Optical Mount for 1-inch optics with retaining ring; Thread type 8-32 and M4 tap | |
| | Kinematic v-grove Mount for up to 2" (50.8 mm) Tall and 60.5 mm wide Rectangular Optics with | |
| 1.91. | angular range $\pm 4^{\circ}$, having height adjustment Screw Thread 100 TPI | |
| | Kinematic mirror Mount for 1 inch Optics having angular Range of $\pm 4^{\circ}$ made of anodized | |
| 1.92. | aluminum; Mounting Type Clearance Hole for 8-32 or M4 Screws; Adjustment Screw Thread 100 | |
| | TPI; Knobs Expose Hex Sockets | |
| | | |

| 1.93. | Low Drift 1 inch Mirror Mount, with Angular Range of ±7° made of anodized aluminum; Mounting Type Clearance Hole for 8-32 or M4 Screws; Adjustment Screw Thread 100 TPI; Screws for Greater Sensitivity 3.8 arc sec | | |
|--------|---|--|--|
| 1.94. | Standard kinematic mirror mounts for 1 inch optics, two axis control with Angular Range of ±4° made of anodized aluminum; Mounting Type Clearance Hole for 8-32 or M4 Screws; Adjustment Screw Thread 100 TPI; Screws for Greater Sensitivity 3.8 arc sec; | | |
| 1.95. | SMA Fiber Adapter Cap with Internal SM1 Thread 1.035"-40 | | |
| 1.96. | FC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread | | |
| 1.97. | Standard Post holder open slotted bases, M6 mounting hole (Both threaded and through holes) Size 25 mm x 57 mm x 6.4 mm | | |
| 1.98. | Standard Post holder open slotted bases, M6 mounting hole (Both threaded and through holes) and C-Type Bore 1. 25.4 mm x 73.8 mm x 9.1 mm 2. 50.8 mm x 92.2 mm x 9.1 mm | | |
| 1.99. | Heavy duty switchable magnetic base ideal for quick setups, turn ON-OFF hand switch with strong holding forces, with kinematic top plate for repeatable positioning and Non-magnetic mounting surfaces with versatile hole patterns, M6 mounting stud, | | |
| 1.100. | Standard Pedestal Posts stainless steel construction : 1 inch (25.4 mm) diameter with M4 removable stud at one end and M6 tapped hole at other end. Heights = 12.7mm, 25.4mm, 58.8, 76.2, 101.6mm along with suitable pedestal clamping forks and pedestal spacers/ extensions of assorted heights | | |
| 1.101. | Standard Stainless steel Posts, 0.5 inch (12.7 mm) diameter with M4 removable stud at one end and M6 tapped hole at other end, Lengths = 19.1 mm, 25.4 mm, 38.1 mm, 50.8 mm, 101.6 mm | | |
| 1.102. | 45 degree mirror mounts for 1 inch optics, mountable on 1 inch mirrors/lens holders, double sided throughput holes and made of anodized aluminum. | | |
| 1.103. | Screw thread adapter (assorted, metric) kit 1. External M4 Threads, External M3 Threads 2. External M4 Threads, Internal M3 Threads 3. External M6 Threads, Internal M4Threads 4. Internal M3 x 0.5 Threads, External M6 x 1.0 Threads etc., 5. Boxed (assorted numbers 5-10) | | |
| 1.104. | Black oxide steel coated screw kit, with metric socket head cap with thread type M2.5, M3, M4 and M5 having a length of 6 to 35mm (assorted) and M3 x 0.5 setscrew (6mm long) nuts and washers in a box (aprox. 170-200 each) | | |
| 1.105. | M4 x 0.7 cap screw kit, (assorted) and M4 x 0.5 setscrew (10-50mm long) in a box (aprox. 200- 500 each) | | |
| 1.106. | M6 x 1.0 cap screw kit, mm, 12 mm, 16 mm, 20 mm, 25 mm, 30 mm, 35 mm, 45 mm long (assorted) and M4 x 0.5 setscrew (12 mm, 20 mm long), nuts and washers in a box (aprox. 150- 500 each) | | |
| 1.107. | Universal post Holders with Swivel Base compatible with 0.5 inch diameter optical posts and made of molded composite material (360 deg), hex-locking, lengths required are 25.4 mm, 38.1 mm, 50.8 mm, 76.2 mm | | |
| 1.108. | Bases and Post Holders Essentials Kit, Metric having a cabinet containing (not limited up to)No slip post holder compatible with 0.5 inch optical posts with M6 Thread, heights required are 25.4mm, 38.1 mm, 50.8 mm, 76.2 mm, 101.6 mm, 152.4 mm.Pack of 10 Adjustable height base clamp with M6 tapped holesBaseplate of dimensions 9.1 mm x 25.4 mm x 73.8mm with both threaded and through holesSlim optical post holder base (made of aluminum material) having height 6.4 mmBaseplate of dimensions 9.1 mm x 50.8 mm x 92.2mm with both threaded and through holes | | |
| 1.109. | Standard Post holders, for 12.7 mm diameter with M6 type thread, Spring-Loaded Locking, L = 38.1 mm, 50.8 mm, 101.6mm, 152.4 mm | | |
| 1.110. | Right Angle post clamp for 0.5 inch diameter Posts, 5 mm Hex | | |
| 1.111. | Mini-Post T- Clamp (Metric), compatible with 0.5 inch optical posts and Fixed 90° Clamp | | |
| 1.112. | Right-Angle Post Clamp, Fixed 90° Adapter compatible with 0.5 inch diameter optical posts | | |
| 1.113. | Right-Angle Bracket, made of anodized aluminum with both threaded and through holes, Threadtype: 1/4-20 (M6) Slot, 8-32, M4, 2-56 Threads | | |
| 1.114. | Slip-On Post Collar for 0.5 inch diameter Posts, C-shaped design for easy installation and removal, Metric | | |
| | 22 | | |

| 1.115. | Adjustable height short base clamp, made of stainless steel material with M6 tapped holes | |
|------------------|---|--|
| 1.116. | Metric Hex Screwdriver Set with mounting stand and extra holes for Allen keys | |
| 1 1 1 7 | Metric Ball-driver tool set including 1.5, 2, 2.5, 3, 4 and 5 mm; having hardened ball tip with M6 | |
| 1.117. | socket screws and L- Allen Wrench Kit having sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm. | |
| 1.118. | 9-Piece Color-Coded Hex Key Set, Metric (L- Allen Wrench Kit having sizes 1.5, 2, 2.5, 3, 4, 5, 6, | |
| 1.116. | 8 and 10mm.) | |
| 1.119. | Breadboard Mountable Ball-driver and Tool Caddy Kit, Metric | |
| 1.120. | Bench top Organizer with Ball-driver Set of 1.5, 2, 2.5, 3, 4, 5 mm sizes with aluminum as holder | |
| 1.120. | material and Dropper Bottles of size 2 oz, Metric | |
| 1.121. | Metric Ball driver Kit Includes 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, and 5 mm having angled entry | |
| 1.121. | < 25% and M6 socket screws | |
| 1.122. | Lens cleaning Tissues of 4x 6 inch sizes or better, should be atleast 90% non-woven, 1000 Sheets | |
| | per Box | |
| 1.123. | Cleaning tissue straight tip Hemostat, should be made of Solid Stainless Steel | |
| 1.124. | Cleanroom cleaning wipes composed of hydroentangled 100% polyester and able to hold atleast 5-8 | |
| | times its own weight, 1200 wipes per Box, | |
| 1.125. | 4 Wash Bottles (size 8 oz) made of high density polyethylene (HDPE) and 3 Glass Dropper Bottles | |
| | (size 2 oz) | |
| 1.126. | Precision Stainless Steel Tweezer with Carbon-Fiber Tips | |
| 1.127. | Optic Tweezers with Stainless Steel Body | |
| 1.128. 1.129. | Medium Powder-Free Latex Gloves-100 Gloves per pack Large Powder-Free Latex Gloves-100 Gloves per pack | |
| 1.129. | Phase locked optical chopper system with blades and controller for frequency modulation from ~4 | |
| | Hz to ~10 kHz, Harmonic chopping 2 to 15, sub harmonic chopping of $\frac{1}{2}$ to $\frac{1}{15}$, Phase Jitter 0.4° | |
| | rms, Phase Shifter Range -180° to $+179^{\circ}$, Accuracy $< 1/5$ of least significant digit, Resolution 3 | |
| 1.130. | significant digits, and Net Weight 2.59 kg [5.7 lbs], including chopper head or less. Required | |
| | electronic controller, computer controlled- USB connection (local and remote operation, standalone | |
| | software, labview drivers, all required cables etc.,) | |
| | Item 2: Optical elements (assorted) - 1 set | |
| | Neutral density (ND) dual filter wheel for the use with fs laser: Dual six position indexed wheel, for | |
| | 1 inch (25.4mm) diameter optics with base assembly and Mounting Hole Type 1/4-20 Slot. | |
| 2.33. | ND filters to be included (25.4 mm diameter) for $OD = 0.05$ to 3.0 (assorted 9 Nos.) having | |
| 2.55. | Damage Threshold >28 W/cm ² CW or better for the wavelength range of $400 - 900$ nm, with SM1 | |
| | threaded detachable mounts | |
| - | Neutral density (ND) Filters for the use with fs laser; 1 inch diameter, for wavelength region : VIS | |
| 2.24 | (400-2000) nm, having Surface Flatness of 1 λ @ 633 nm, Damage Threshold of ~ 0.7 kW/cm ² (cw), | |
| 2.34. | ~20 mJ/cm ² @ 10 nsec pulse. Thickness: 1.1 mm (mounted with SM1 thread) : Each 1No. with ODs: | |
| | 0.1; 0.2 ; 0.5; 1.0; 2.0; 2.5 | |
| | Optical crown glass metallic Neutral density (ND) Filters (general purpose); 1 inch diameter, for | |
| 2.35. | wavelength region: VIS to NIR, Each 1No. with ODs: 0.04; 0.1; 0.2; 0.3; 0.4; 0.5; 1.0; 1.5; 2.0 and | |
| | 2.5. | |
| | Continuous variable neutral density (ND) filter with OD 0 -4 for wavelength range of 250 – 2500nm | |
| | supplied with appropriate filter wheel and necessary accessories for mounting. Material: UV-grade | |
| 2.36. | fused silica material, Thickness: 2.0 ± 0.25 mm, 50 mm diameter, Damage Threshold: ~70 W/cm2 | |
| | CW or >8 mJ/cm2 with 10 nsec pulses at 1064nm. Surface Quality 60-40 scratch-dig, Wedge \leq 20 arc sec, and made with Inconel metallic coating, Mounted in a ring with 0.5 inch post that can be | |
| | fitted onto the standard post holder. | |
| | Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter mounted in SM-1 threaded mount. Anti- | |
| | reflection coating for 400-700 nm (VIS), having Surface Quality 40-20 scratch-dig, Surface Flatness | |
| 2.37. | $\lambda/4$. Lenses with following effective focal lengths are required: f = 25.4 mm, 50.2 mm,100 mm and | |
| | 150 mm) | |
| | Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter mounted in SM-1 threaded mount. Anti- | |
| 2.38. | reflection coating for 650-1000nm (NIR), having Surface Quality 40-20 scratch-dig, Surface | |
| 2.38. | Flatness $\lambda/4$. Lenses with following effective focal lengths are required: f = 25.4 mm, 50.2 mm, 100 | |
| | mm and 150 mm) | |
| 2.39. | Plano-Convex Lens, UV-Fused Silica, 1 inch (25.4mm) diameter, high laser damage threshold, with | |
| | anti-reflection coating for 430-700 nm (VIS), having surface quality 20-10 scratch-dig, surface | |
| | flatness $\lambda/8$. Mounted in SM-1 threaded mount. | |
| | (focal length = 50.2 mm, 75.6 mm, 100 and 150 mm, 350mm) | |

| Plano-Convex Lens, UV-Pused Silica, 1 inch (25.4 mm) diameter, high laser damage threshold, with arteffection coating for 650-1000 nm, having surface quality 20-10 seratch-dig, surface flatness λ/8. Mounted in SM-1 threaded mount. (focal length = 50, zmm, 75.6 mm, 100 and 150 mm, 350 mm) Plano-Convex Cylindrical Lens, uncoated, 1 inch (25.4 mm) length by 1/2 inch (12.7 mm) width, N-BK7, effective focal length of 12.7 mm, with stubile adjustable Cylindrical Lens Mount which can hold and position cylindrical Lens y uncoated, 1 inch (25.4 mm) for single mode fiber, clear aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate FC/PC connector 2.43. Surface Quality 40-20 scratch-dig, Surface Flatness 1/10 at 632.8 nm, with Angle of Incidence 0-15. Average Reflectivity >090% 0.250-600 nm. Protected silver coated mirrors of diameter 25.4 nm and thickness of 6 mm, wavelength range 480 – ioo000 nm. Surface Quality 40-20 scratch-dig, Surface Flatness 1/10 at 632.8 nm, with Angle of Incidence 0-15. Identers, Average Reflectivity >090% 0.250-600 nm. 2.44. ioo000 nm, Surface Relactivity 290% 0.400 nm m and by 85.5% 0.1-20 µm. Plane holographic Reflective Creating aluminum coated and supplied with appropriate holder/mount that can be fixed in a post. Spectral range of 500-1200 nm. and set with 1200 nm (ines/mm), wavelength fiber, and and supplied with appropriate holder/mount that can be fixed in a post. Spectral range of 500-1200 nm or better, SMA to SMA termination, statiness stell acket, 2 m length in orne. Two types are required: (1) core diameter of 550 ±12 µm. 2.45. High laser domage threshold, Surface Quality 80-50 scratch-dig. Transmission range of 370-200 nm, relactive | anti-reflection coating for 650-1000 nm, having surface quality 20-10 scratch-dig, surface flatness <i>Like Noroted in SNI</i> threaded mount. (focal length = 50.2 mm, 75.6 mm, 100 and 150 mm, 350 mm) Plano-Coreve Cylindrical Lens, uncoted 1. Inch (25.4 mm) length by 1/2 linch (12.7 mm) width, N-BK7, effective focal length of 12.7 mm, with suitable adjustable Cylindrical Lens would which can hold and position cylindrical lens yare 2 inch height. Fiber collinating lens package with back focal length (1) ~7 N mm for single mode fiber, clear aperture = 5.5 mm, broadoutd anti-reflection coating, upplied with appropriate FCPC connector aperture = 5.0 mm, broadout anti-reflection coating, upplied with 10 ns pulses at 355 nm at 2011z, Surface Cultity 40.0 scratch-dig, Surface Flatness 31/0 at 65.2 N m, with Angle of Ticidence 0-15, Average Reflectivity >90%. & 230-600 nm. Surface VI on a 65.2 N m, with Angle of Ticidence 0-15 (Servers, Average Reflectivity >90%. & 420-600 nm. Roled with appropriate holder/nount that can be fixed on a post. Spectral range of 500-1200 nm. Roled with appropriate holder/nount that can be fixed on a post. Spectral range of 500-1200 nm. Roled with appropriate holder/nount that can be fixed on a post. Spectral range of 500-1200 nm or better, SMA to SMA termination, statiless stel jacket. 2 m length or more. Two types are required: (1) core diameter of 550 +12 µm, 0.22 NA. Lung was pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high baser dware methods. Surface Quality 40-20 scratch-dig. Transmission >280% lit. The supersonal methods in the supersonal motion of the supersonal mount of the supersonal motion set of 500 +12 µm, 0.22 NA. Lung was pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser duarage threshold. Surface Quality 80-50 scratch-dig. Transmission >280% lit. Transmission >280% lit. Transmission >280% lit. Cultof wavelength 800 ± 5 mm | | | |
|---|--|-------|---|--|
| 24.8. Mounted in SM-1 threaded mount. (focal length = 502 nm, 75.6 mm, 100 and 150 mm, 350 mm) Plano-Convex Cylindrical Lens., uncoated, 1 inch (25.4 mm) length by 1/2 inch (12.7 mm) within, N-B K7, effective focal length of 12.7 mm, with statiable dayistable Cylindrical Lens. Mount which can hold and position cylindrical lenses upto 2 inch height. 2.42. apetrum = 5.5 mm, broadband aint reflection cylindrical Lens. Mount which can hold and position cylindrical lenses upto 2 inch height. 2.43. wavelength range 250 – 600 nm, Damags Threshold: 0.3 J.Cm² with appropriate PCPC connector Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of - 6 mm, wavelength range 450 – 600 nm, Damags Threshold: 0.3 J.Cm² with 10 ns pulses at 355 nm at 20Hz, Surface Quality 40-20 scratch-dig, Surface Flatness J/10 at 632.8 nm, with Angle of Incidence 0-154, Average Reflectivity >296% @ 480-1100 nm; and >985.5% @ 1.1-20 µm. Plane holographic Reflective Grating aluminum contact and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/nm (lines/nm), wavelength of maximum efficiency 800nm. Dimensions - 25 x 25 x 6 mm. Plane holographic Reflective Grating BSFI0 Prism, optimized for transmission range of 370-200 on ns. surface flatness -1/10 at 632.8 nm, 0.22 NA. Utrafast Laser Brewster Angle Dispersing SFI0 Prism, optimized for transmission range of 370-200 on ns. yarkee flatness -1/10 at 632.8 nm, 0.22 NA. Utrafast Laser Brewster Angle Dispersing SFI0 Prism, optimized for transmission z80%. Cutoff wavelength 650 ± 5 nm Gutoff wavelength 650 ± 5 nm. Brigh Laser down pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser domage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-788 nm. Cutoff wavelength 800 ± 5 nm. | 2.40. Vol. Loggl = 5.2 mm, 75.6 mm, 100 and 150 mm. 350mm) Plano-Convex Cylindrical Lens, uncoated, 1 inch (25.4 mm) length by 1/2 inch (12.7 mm) width, N-B (27.7 ffective focal length of 1.2 mm, with suitable dujustable Cylindrical Lens Mount which can hold and position cylindrical lenss upto 2 inch height. 2.42. aperture = 5.5 mm, honodand anti-reflection coating, supplead with appropriate FC/RC connector aperture = 5.5 m. Nonodand anti-reflection coating, supplead with appropriate FC/RC connector aperture = 5.5 m. Nonodand anti-reflection coating, supplead with appropriate FC/RC connector aperture = 5.5 mm, Nonodand anti-reflection coating, supplead with appropriate FC/RC connector approxes Reflectivity 90% @ 2.5 do 0.1 mm, Surface Plantess J/10 at 63.2 mm, with Naple of Incidence 0-15, Average Reflectivity 90% @ 2.5 do 0.1 mm, Surface Flantess J/10 at 63.2 mm, with Angle of Incidence 0-15, Average Reflectivity 90% @ 2.5 do 0.1 mm, Surface Flantess J/10 at 63.2 mm, with Angle of Incidence 0-15, deverage Reflectivity 90% @ 2.5 do 0.1 mm, Surface Flantess J/10 at 63.2 mm, with Angle of Incidence 0-15, deverage Reflectivity 90% @ 1.5 000 nm, Surface Flantess J/10 at 63.2 mm, with Angle of Incidence 0-15 degrees, Average Reflectivity 90% @ 4.80-1100 nm, and 926.5 %@ 1.1-20 µm, Plante holographic Reflective Grating autonium coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-120 nm. Rued with 1200 rmm (lines/mm), wavelength fi maximum efficiency Wolpes are required. (1) core diameter of 550 ± 12 µm, 0.2.2 NA. Aut (2) core diameter of 0.00 ± 15 µm µm, 0.2 NA to (2) core diameter of 0.00 ± 15 µm µm, 0.2 NA. Ultrafast Laser Brewster Angle Dispersing SP10 Prism, optimized for transmission range of 370-200 mm, surface Ruel for the surface Quality 80-50 scratch-dig. Untareading the set of 4.7 -758 mm, Currel diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scrat | | Plano-Convex Lens, UV-Fused Silica, 1 inch (25.4mm) diameter, high laser damage threshold, with | |
| A. Mounted in SM-1 Intraded mount. (focal length = 50, nm, 75.6 mm, 100 and 150 mm, 350mm) Plano-Convex Cylindrical Lens, uncoated, 1 inch (25.4 mm) length by 1/2 inch (12.7 mm) width, N-BK, 7 effective focal length of 12.7 mm, with subtable adjustable Cylindrical Lens Mount Which can hold and position cylindrical lenses upto 2 inch height. 2.42. Fiber collinating them package with back local length 0) -7.8 mm for single mode fiber, clear aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate FC/PC connector Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of - 6 mm, wavelength range 250 - 600 nm, Damage Threshold: 0.3 J.cm² with 10 ns palses at 355 nm at 20Hz, Surface Qality 40-20 scratch-dig, Surface Flatness J/10 at 632.8 m, with Angle of Incidence 0-15, Average Reflectivity -30% (# 230-600 nm) Protected Silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 - 2000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness J/10 at 632.8 m, with Angle of Incidence 0-150 geress, Average Reflectivity -30% (# 240-1100 nm; and >98,55% (# 1.1-20 µm) Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800am. Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber pach cables, 500-2100 am or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 530 - 12 µm, 0.22 NA. Ultrafast Laser Brewster Angle Dispersing SFIO Prism, optimized for transmission range of 370-200 nm, surface flatness ~ 100 at 53.2 mm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SFIO Prism, optimized for transmission 280%. Cutoff wavelength 650 - 5 nm Short wave pass Dichroic Filter, 1 inch | 1/25. Monited in SM-1 threaded mount. (ficed length = 50.2 mm, 75.6 mm, 100 and 150 nm, 350mm) 24.1 BK7, effective focularity from, with suitable adjustable Cylindrical Lens Mount which can hold and position cylindrical lenses up to 2 inch height. 2.42. Fifter collimating lense package with back focal length 01.27 mm for single mode fiber, clear aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate FCPC connector Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 250 - 600 nm. Damage Threshold: 0.3 J/ord with 10 ns pulses at 355 nm at 20Hz. Surface Platness J/10 at 632.8 nm, with Angle of incidence 0.15K gurface Flatness J/10 at 632.8 nm, with Angle of incidence 0.15K gurface Flatness J/10 at 632.8 nm, with Angle of incidence 0.15K gures, Average Reflexitivi y 296% et 480-100 nm, Ruled with 12000m (inc/mm), wavelength range 480 - 20000 nm, Surface Quality 40.20 scratch-dig. Surface Flatness J/10 at 632.8 nm, with Angle of incidence 0.15K gures, Average Reflexitivi y 296% et 480-100 nm, Ruled with 12000m (inc/mm), wavelength of maximum efficiency 800m. Dimensions - 25 x 25 x 6 mm. 2.45. that can be fixed on a post. Spectral range of 500-120 nm. Ruled with 12000m (inc/mm), wavelength of maximum efficiency 800m. Dimensions - 25 x 25 x 6 mm. 2.46. statiness stel jack.4, 2 n length or more. Two types are required (1) core diameter of 530 -122 µm, 0.22 NA, and (2) core diameter of 1000 =15 µm µm, 0.22 NA. 2.47. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7 mm, big haser | 2.40 | | |
| Plano-Convex Cylindrical Lens, uncoated, 1 inch (25.4 mm) length by 1/2 inch (12.7 mm) with, N-BK, effective focal length of 1.2 rm, with vitable adjustable Cylindrical Lens Mount which can hold and position cylindrical lenses upto 2 inch height. 2.42. Fiber collimating lens package with back focal length (f) -7.8 mm for single mode fiber, clear adjust of the collimating lens package with Dack focal length (f) -7.8 mm and thickness of ~ 6 mm, wavelengt range 250 – 600 nm, Danage Threshold: 0.3 Jcmé with 10 ns pulses at 355 nm at 20Hz, Surface 200 – 000 cm, Danage Threshold: 0.3 Jcmé with 10 ns pulses at 355 m at 20Hz, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250 -600 nm 2.44. 2000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-15 degress. Average Reflectivity >90% @ 480-1100 nm; and >98.5% @ 1.1-20 um. Plane holographic Reflective Grafing aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Nuetositom at 50.5% @ 1.1-20 um. 2.45. that can be fixed on a post. Spectral range of 500-1200 nm. Nuetositom at 50.50-2100 nm on better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 = 12 µm. 2.46. Ultrafast Laser Brewster Angle Dispersing SFI0 Prism, optimized for transmission range of 370-200 nm, surface flatness ~100 at 632.8 nm, optimized for transmission z80%. 2.47. 2000 nm, surface flatness ~100 at 632.8 nm, Surface Quality 40-20 scratch-dig. Transmission ≥80%. 13 Cuotif wavelength 500 ± 5 nm< | Plano-Convex Cylindrical Lens , uncoated, 1 inch (23 4 mm) length by 1/2 inch (12,7 mm) width, N- R.Y. (Fictive focul length of 12.7 mm, with subtable adjustable Cylindrical Lens Mount which can hold and position cylindrical lenses up to 2 inch height. Piper collimating lens package with back focal length (1) ~7.8 mm for single mode fiber, clear aporture = 5.5 mm, broadbund anti-reflection coating, supplied with appropriate FCPC connector Protected VU enhanced Aluminum mirrors of diameter 23.4 mm and thickness of ~6 mm. Average Reflectivity 290% (# 230-600 nm, Damage Threshold): 0.3 1/cm 4 with 10 to polses at 35.5 mm at 20H/, Surface Quality 40.2 0 scratch-dig, Surface Flatness J/10 at 63.2 k nm, with Angle of Incidence 0-15, Average Reflectivity 290% (# 430-1100 nm; and >88.5% (# 1.1-20 µm.) Protexted Silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 - 2000 mm, Surface Quality 4.0-20 scratch-dig, Surface Flatness J/10 at 63.2 k nm, with Angle of incidence 0-15degrees. Average Reflectivity 990m. Dimensions - 25 x 5.2 k om. Pinet holographic Reflective Grating aluminum context and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm, Ruled with 1200/nm (lines/nm), wavelength of maximum efficiency 800m. Dimensions - 25 x 25 k om. Utraiast Laser Brewser Angle Dispersing SP10 Prism, optimized for transmission range of 370-200 nm, surface flatness - x/10 at 63.2 k nm, Surface Platness is 20 at 25 k om. Cotof wavelength S00 ± 5 nm Cutoff wavelength S00 ± 5 nm Bradpasa filter. Tinch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage thresh | 2.10. | | |
| BK7, effective focal length of 12.7 mm, with suitable adjustable Cylindrical Lens Mount which can hold and position cylindrical lenses upto 2 inch height. Fiber collimating lens package with back focal length (0, -7.8 mm for single mode fiber, clear aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate FCPC connector Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of - 6 mm. wavelength range 230 - 000 nm, Damage Threshold: 0.3 J/cm² with 10 ns pulses at 355 nm at 20Hz, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of licidence 0-15, Average Reflectivity >90% @ 250-600 nm Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 - 2000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of licidence 0-15 degrees. Average Reflectivity >90% @ 480-1100 nm; and >985.95 @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm related with 1200/mm (lines/mm), wavelength for maximum efficiency 800m. Dimensions ~ 25 x 25 x 6 nm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless stel jacket, 2 nn length or more. Two types are required: (1) core diameter of 570 ± 12 µm, 0.22 NA, and (2) core diameter of 1000-115 µm µm, 0.22 NA Uttrafist Laser Brewster Angle Dispersing. SF10 Prism, optimized for transmission range of 370. 247. 2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm Louff wavelength 500 ± 5 nm Subrave pass Di | 2.41. BK7, effective focal length of 12.7 mm, with suitable adjustable Cylindrical Lens Mount which can hold and position cylindrical lenses upto 2 lich height. 2.42. aperture = 5.5 mm, broadband anti-rellection coating, supplied with appropriate PCPC connector Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of – 6 mm, worklength range 230 – 000 mm, Bameg Turshold: 0.3 <i>J km</i>² with 10 ns paless at 355 mm at 20Hz. Surface Quality 40.20 scratch-dig. Surface Platness <i>J</i>/10 at 632.8 mm, with Angle 0 in leidence 0-15. Average Reflectivity >90% ef 250.600 nm. Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig. Surface Platness <i>J</i>/10 at 632.8 mm, with Angle 0 in indicence 0-15. Guyeres, Average Reflectivity >90% ef 480-100 mm, Ruled with 1200/nm (line/mm), wavelength of maximum efficiency 800mm, Dimensions ~ 25 x 25 x 6 mm. Protects d Jiver coated mirrors of more. Two types are required. (1) core diameter of 50 ~ 12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SPI10 prism, optimized for transmission range of 370-2000 nm, Ruled with 1200/nm (line/mm), wavelength setsel applicate: Quality 40-30 scratch-dig. Dimensions A=B-C = 150 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser drange threshold, Surface Quality 80-50 scratch-dig. Transmission ±80%. Cutoff wavelength 650 ± 5 mm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser drange threshold, Surface Quality 80-50 scratch-dig. Transmission ±80%. Cutoff wavelength 650 ± 5 mm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser drange threshold, Surface Quality 80-50 scratch-dig. Transmission ±80%. <l< td=""><td></td><td></td><td></td></l<> | | | |
| Index and position cylindrical lenses upto 2 inch height. 2.42. Fiber collimating lens package with back focal length (f) -7.8 mm for single mode fiber, clear aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate PC/PC connector 2.43. Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of ~ 6 mm, wavelength range 250 – 600 mm. 2.44. Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >2006 of 200 cratch-dig. Surface Flatness N/10 at 632.8 nm, with Angle of incidence 0-15degrees. Average Reflectivity >26% @ 480-1100 nm; and >28.5% @ 1.1-20 µm. 2.44. 20000 nm, Surface Quality 40-20 scratch-dig. Surface Flatness N/10 at 632.8 nm, with Angle of incidence 0-15degrees. Average Reflectivity >26% @ 480-1100 nm; and >28.5% @ 1.1-20 µm. 2.45. that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200 mm (lines/imout that can be fixed on a post. Spectral range of 500-1200 nm on better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA. 2.46. stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 370-2000 mm, surface flatness - λ/10 at 632.8 mm, Surface Quality 40-20 scratch-dig. Transmission range of 370-2000 mm, surface flatness > 10 at 632.8 mm, Surface Quality 40-20 scratch-dig. Transmission ≥80%. 2.47. Utarga tase Brewster Angle Dispersing. SF10 Prism, optimized for transmission range of 370-2000 mm, surface flatness > 10 at 632.8 mm, Surface Claulity 80-50 scratch-dig. Transmission ≥8 | Indiand position cylindrical lenses upto 2 inch height. | | | |
| 2.42. aperture = 5.5 mm, broadbad anti-reflection coating, supplied with appropriate FC/PC connector aperture = 5.5 mm, broadbad anti-reflection coating, supplied with appropriate FC/PC connector aperture = 5.5 mm, broadbad anti-reflection coating, supplied with appropriate FC/PC connector aperture = 5.5 mm, broadbad and increflection coating, supplied with appropriate FC/PC connector approxed site approxement applied and the state site of a 6.2.8 mm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 nm Protected Silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness A/10 at 632.8 nm, with Angle of incidence 0-15 degrees. Average Reflectivity >90% @ 480-1100 nm; and >985.9% 0.1.20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 nm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, statiness steel jacket, 1 2 m length or mor. Two types are required: (1) core diameter of 550 ±12 µm. 0.22 NA. Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2200 nm, surface flattess ~ 1/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Transmission ≥80%. [1] Cutoff wavelength 500 ± 5 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 475.785 nm. Cutoff wavelength 800 ± 5 nm Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 445.785 nm. Cutoff wavelength 800 ± 5 nm | 2.42. apprive 5.5 mm, broadbad and in-reflection coaring, supplied with appropriate FC/PC connector 2.43. Surface Quality 40-20 scratch-dig, Surface Flamess λ/10 at 632.8 mm, with Angle of Incidence 0-15, Average Reflectivity >500% @ 250-600 mm 2.44. Surface Quality 40-20 scratch-dig, Surface Flamess λ/10 at 632.8 mm, with Angle of Incidence 0-15, Average Reflectivity >500% @ 250-600 mm 2.44. Surface Quality 40-20 scratch-dig, Surface Flamess λ/10 at 632.8 mm, with Angle of Incidence 0-15, decrease Quality 40-20 scratch-dig, Surface Flamess λ/10 at 632.8 mm, with Angle of Incidence 0-15 (decrees, Average Reflectivity) >500% @ 480-100 mm; and >588.5% @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate bolder/mount that can be fixed on a pox. Spectral range of 500% =2100 mm, and with appropriate bolder/mount that can be fixed on a pox. Spectral range of 500-2100 mm role with 200 km (lines/mnu), wavelength of maximum efficiency 800mm. Dimensions - 25 x 25 x 6 mm. 2.46. stainless steel jacket. 2 m length or more. Two types are required: (1) core diameter of 550 = 12 µm, 0.22 NA, und (2) core diameter of 1000 ± 15 µm µm. 0.22 NA. 2.47. Durfas L asser Breaker Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface Ratess ~ λ/10 at 632.8 mm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high haser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. | 2.41. | | |
| 2.42. aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate EC/PC connector Protected UV enhanced Aluminum mirrors of diameter 25.4 mm and thickness of - 6 mm, wavelength range 250 - 600 nm, Damage Threshold: 0.3 J/cm² with 10 ns pulses at 355 nm at 20Hz, Surface Quality 40-20 scratch-dig, Surface Flattess X/10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity > 50%, @ 20-600 nm Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 - 2000 nm, Surface Quality 40-20 scratch-dig, Surface Flattess X/10 at 632.8 nm, with Angle of incidence 0-15degrees, Average Reflectivity > 90%, @ 480-1100 nm, and > 98.5%, @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/nm (lines/mm), wavelength of maximum efficiency 800m. Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flattness - 1/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Transmission ≥80%. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. Cutoff wavelength 500 ± 5 mm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. Cutoff wavelength 500 ± 5 mm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mo | 2.42. aperture = 5.5 nm, broadband and-reflection coaring, supplied with appropriate FC/PC connector Protected UV enhanced Aluminum mirrors of diameter 25.4 nm and thickness of -6 nm, wavelength range 250 - 600 nm, Damage Threshold: 0.3 Jcm² with 10 ns pulses at 355 nm at 20Hz, Surface Quality 40-20 scratch-dig. Surface Platness X10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 nm Protected Silver coated mirrors of diameter 25.4 nm and thickness of 6 nm, wavelength range 480 - 1000 nm, Surface Quality 40-20 scratch-dig. Surface Flatness X10 at 632.8 nm, with Angle of incidence 0-15. detecting aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200 nm (lines/nm), wavelength of maximum efficiency 800nm, Dimensions ~ 25 x 5 x 6 nm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 50 + 12 µm, 0.22 NA, and (2) core diameter of 1000 ± 15 µm in. 0.22 NA and (2) core diameter of 1000 ± 15 µm in. 0.22 NA. Ultrafast Laser Brewster Angle Dispersing SP10 Prism, optimized for transmission range of 370-200 nm, surface Ruless ~1/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 475-785 nm. Cuoff wavelength 800 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 475-785 nm. Cuoff wavelength 800 ± 5 nm. Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damages | | | |
| aperture = 3.5 mm, broadband anti-reflection coating, supplied with appropriate FCVC connector 2.43. Surface Quality 40-20 scratch-dig, Surface Flatness <i>N</i> /10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 mm 2.44. 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness <i>N</i> /10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 mm 2.44. 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness <i>N</i> /10 at 632.8 nm, with Angle of Incidence 0-15 degrees, Average Reflectivity >96% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate hold/xrmount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/nm (lines/nm), wavelength of maximum efficiency 800m. Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA and (2) core diameter of 1000 -15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SFIO Prism, optimized for transmission zange of 370-200 nm, wavelength 500 ± 5 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser dmange threshold, Surface Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm 2.50. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser dmange threshold, Surface Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavele | aperture = 2.5 mm, broadband anti-reflection coating, suppled with appropriate PC/PC connector 2.43. Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 nm 2.44. Protected silver coated mirrors of diameter 25.4 nm and thickness of 6 nm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of incidence 0-156 grees, Average Reflectivity >90%. @ 480-1100 nm; and >98.5% @ 1.120 µm. Plane holographic Reflective Graing aduminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/nm (lines/mm), wavelength of maximum efficiency 800nn. Dimensions ~ 25 × 25 × 6 nm. 2.46. thigh laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainess steel jackt. 2 m length or more. Two types are required: (1) core diameter of 570 ±12 µm, 0.22 NA. 2.47. 2000 nm, surface flatness ~ λ/10 at 632.8 nm, surface Quality 40-20 scratch-dig. Dimensions A=B-C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 475-785 nm. | 2 12 | Fiber collimating lens package with back focal length (f) ~7.8 mm for single mode fiber, clear | |
| 2.43. wavelength range 250 – 600 nm. Damage Threshold: 0.3 <i>J</i> cm² with 10 ns pulses at 355 nm at 20Hz. Surface Quality 40-20 scratch-dig. Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-155. Average Rellectivity >90% @ 250-600 nm Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 2000 nm, Surface Quality 40-20 scratch-dig. Surface Flatness λ/10 at 632.8 nm, with Angle of incidence 0-156grees. Average Rellectivity >90% @ 480-1100 nm: Ruled with 1200 nm. (Bincy mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200 nm. (Bincy mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200 nm. (Bincy mount that can be fixed on a post. Spectral range of 500-1200 nm or better, SMA to SMA termination, wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 2.46. stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm. 0.22 NA and (2) core diameter of 1000 ±15 µm µm. 0.22 NA and = 2 = 15.0 mm 2.47. A=DC = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. 31. Cutoff wavelength 500 ± 5 nm 41. Cutoff wavelength 500 ± 5 nm 41. Stort wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 475-785 m. Cutoff wavelength 800 ± 5 nm. 4.50. Bandpass filter, 1 inch diameter for ~700.920 nm reflection. Surface Quality 15-5 scratch-dig scratch-dig: Center wavelength 519m. BW-50mm 5.50. Two divelength 500 ± 5 nm 5.50. Sard divelength 500 ± 5 nm 5.50. Sard divelength 500 ± 5 nm 5.50. | 2.43. wavelength range 250 - 600 nm, Damage Threshold: 0.3 Jcm² with 10 as pulses at 355 nm a 20Hz. Average Reflectivity >90% @ 250-600 nm Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 - 1000 nm, Surface Quality 40.20 scratch-dig. Surface Flatness X10 at 632.8 nm, with Angle of incidence 0-15degrees. Average Reflectivity >90% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/nm (lines/mm), wavelength frams/mmm (flice/mcg 800m. Dimensions ~ 25 x 25 x 6 mm. 2.46. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless ateel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 + 12 µm, 0.22 NA, and (2) core diameter of 1000 ± 15 µm in. 0.22 NA 2.47. 2000 nm, surface flattess ~1/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. [3] Cutoff wavelength 500 ± 5 nm [4] Cutoff wavelength 500 ± 5 nm [4] Cutoff wavelength 500 ± 5 nm. [5] Software Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 500 ± 5 nm. [5] Software Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 500 ± 5 nm. [5] Software Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. [5] Software Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 500 ± 5 nm. [5] Software Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. [5] Software Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength none to the diagnees of a | 2.42. | aperture = 5.5 mm, broadband anti-reflection coating, supplied with appropriate FC/PC connector | |
| 2.45. Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 nm 2.44. Protected silver coated mirrors of diameter 25.4 nm and thickness of 6 nm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of incidence 0-15 degrees, Average Reflectivity -996% @ 480-1000 nm; and >85.% @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Roled with 1200/mm (lines/ndm), wavelength of maximum efficiency 800mn. Dimensions ~ 25 x 25 x 6 nm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless stel jacket, 2 m length or more. Two types are required: (1) core diameter of 505 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA. Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-22000 nm, surface flatness ~ /10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm Cutoff wavelength 500 ± 5 m Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection. Surface Quality 15-5 scratch-dig and flat surface (\latta 10 m the diameter for ~700-950 nm reflection. Surface Quality 15-5 scratch-dig and flat surface (\latta 10 m the diameter for ~700-950 | 2.4.5. Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% @ 250-600 nm 2.4.4 Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of Incidence 0-15 degrees, Average Reflectivity >90% @ 480.1100 nm; ad >92.8 \cdot 0.11.20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200 mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stalless steel jacket, z n length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA. Ultrafast Laser Brewister Angle Dispersing STPI Drism, optimized for transmission range of 370-2000 nm, surface Hatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. Cutoff wavelength 500 ± 5 m Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig: Center wavelength film, BM-26 mm Cutoff wavelength 800 ± 5 mn. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig: Center wavelength film, BM-26 mm Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 nm), Reflectivity (Rs) (ayg)>9%, Rg (awe)>7%, Rg (00-0500 nm, Ravyp)>8% (32.8 n | | | |
| Surface Quality 40-20 scratch-dg, Surface Frainess A10 at 852.8 nm, with Angle of Incidence 0-15, Average Reflectivity >90% e 250-600 nm 2.44. 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness X10 at 632.8 nm, with Angle of incidence 0-15degrees, Average Reflectivity >96% e 480-1100 nm; and >98.5% e 1.1-20 µm. 2.45. that can be fixed on a post. Spectral range of 500-1200 nm, Ruled with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm, Ruled with 1200/nm (lines/mm), wavelength of maximum efficiency 800m. Dimensions ~ 25 x 25 x 6 mm. 4.4. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA 2.46. Ultrafast Laser Brewster Angle Dispersing SPIO Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. [3] Cutoff wavelength 500 ± 5 nm | Surface Quality 40-20 stratch-dig, Surface Hattess A10 at 63.2 k nm, with Alge of Incedence 0-15, Average Reflectivity >50% 6/20-600 nm Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 2.44. 2000 nm, Surface Quality 40-20 scratch-dig, Surface Flaness V10 at 63.2 k nm, with Angle of Incedence 0-15degrees, Average Reflectivity >96% 6/480-1100 nm; and >98.5% 6/1-20 µm. 2.45. that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/nm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 2.46. thigh laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA 0.41. utrafast Laser Brewster Angle Dispersing SP10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ \/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 150 nm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. | 2 13 | wavelength range 250 – 600 nm, Damage Threshold: 0.3 J/cm ² with 10 ns pulses at 355 nm at 20Hz, | |
| Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of incidence 0-15degrees, Average Reflectivity >96% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm, Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, to 22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA. Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. Cutoff wavelength 500 ± 5 nm 41 Cutoff wavelength 500 ± 5 nm. Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nn. E.50. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Carter wavelength 519m, BW-500m Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection, Surface Quality 15-5 scratch-dig and 11at surface (λ/10 or better awalength fraged) (80) (20)/99%, Ry (ava)>79%, Ry (a | 2.44. Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness 3/10 at 632.8 nm, with Angle of incidence 0-15degrees, Average Reflectivity >95% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. 2.45. that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200 rmm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 2.46. stainless stel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA. 2.47. 2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. [3] Cutoff wavelength 500 ± 5 nm [4] Cutoff wavelength 500 ± 5 nm [4] Cutoff wavelength 500 ± 5 nm [4] Cutoff wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. | 2.45. | Surface Quality 40-20 scratch-dig, Surface Flatness λ /10 at 632.8 nm, with Angle of Incidence 0-15, | |
| 2.44. 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ/10 at 632.8 nm, with Angle of incidence 0-15degrees, Average Reflectivity >96% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/nm (inces/nm), wavelength of maximum efficiency 800m, Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig: Transmission ≥80%. [3] Cutoff wavelength 500 ± 5 nm | 2.44. 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flamess λ/10 at 632.8 nm, with Angle of incidence 0-15degrees, Average Reflectivity >96% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. 2.45. Plane holographic Reflectivity >96% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. 2.44. bit at can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (incs/mm), wavelength of maximum efficiency 800m. Dimensions ~ 25 x 25 x 6 nm. 2.46. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 500 ±12 µm, 0.22 NA. 2.47. 2000 nm, surface flatness ~ /10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C=15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. | | Average Reflectivity >90% @ 250-600 nm | |
| incidence 0-15degrees, Average Reflectivity >596% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. 2.45. Plane holographic Reflective Grating aluminum coated and supplied with approm (ines/mm), wavelength of maximum efficiency \$00nm. Dimensions ~ 25 x 25 x 6 nm. 2.45. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prixm, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. | incidence 0-15degrees, Average Reflectivity-96% @ 480-1100 mm; and >98.5% [1-20] µm. 2.45. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 2.46. stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm. 0.22 NA 2.47. 2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. [3] Cutoff wavelength of 50 ± 5 nm [4] Cutoff wavelength 650 ± 5 nm [4] Cutoff wavelength 650 ± 5 nm [4] Cutoff wavelength 650 ± 5 nm [4] Cutoff wavelength 650 ± 5 nm [5,0] Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-788 nm. Cutoff wavelength 800 ± 5 nm. | | Protected silver coated mirrors of diameter 25.4 mm and thickness of 6 mm, wavelength range 480 – | |
| Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 500 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. Cutoff wavelength 500 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, Bigh laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. Broadband tichroic mirror for ultrafast lasers, 1 inch diameter for -700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 nm). Reflectivity (Rs) (avg)>99%, Rp (ave)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsec pulses within the wavelength range: 650 - 20000 nm, having Surface Flatness of λ/10 at 632.8 nm; and Angle of Incidence in the range of 0-45°. (2) Pair of 1 inch diameter protected gold plane mirrors, wavelength | 2.45. Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 2.46. stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA 2.47. 2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig. Transmission ≥80%. | 2.44. | 20000 nm, Surface Quality 40-20 scratch-dig, Surface Flatness λ /10 at 632.8 nm, with Angle of | |
| 2.45. that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 2.46. High laser power multimode fiber path cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ± 12 µm, 0.22 NA, and (2) core diameter of 1000 ± 15 µm µm, 0.22 NA 2.47. Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ \/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig: Transmission ≥80%. [3] Cutoff wavelength 650 ± 5 nm [4] Cutoff wavelength 600 ± 5 nm. 2.49. high laser damage threshold, Surface Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. 2.50. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig: Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. 2.51. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig: Center wavelength 519nm, BW-50nm 2.51. Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for -700-950 mm reflection, Surface Quality 16-50 scratch-dig: Center wavelength 519nm, BW-50nm 2.52. (2) Pair of 1 inch diameter plane mirrors mounted on appropriate mount for holding the two mirrors to be used in delay lines. The mount should be fixable on standards posts. The specifications of the mirrors to be used in delay lines. The mount should be fixable on standards posts. The s | 2.45. that can be Tixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 4.4. High laser power multimode fiber patch cables, 500-2100 nm or better; SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ± 12 µm, 0.22 NA, and (2) core diameter of 1000 ± 15 µm µm, 0.22 NA 4.4. Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B-C = 15.0 mm 4.5. D mm 4.6. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. (3) Cutoff wavelength 650 ± 5 nm 4.1. Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. 2.50. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519nm, BW-50nm Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for 7-700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 nm), Reflectivity (Rs) (avg)>99%, Rp (ave)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J/cm2 or better with 10 nexe pulses within the wavelength range. Retroreflector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors in each kit is as following: (1) Pair of 1 inch diameter protected gld plane mirrors, wavelength range: 650 - 200000 nm, having Surface Quality 15-5 s | | incidence 0-15degrees, Average Reflectivity >96% @ 480-1100 nm; and >98.5% @ 1.1-20 µm. | |
| wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. 4.4 High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA 2.47. 2000 nm, surface flatness ~ \/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. | wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ \/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. | | Plane holographic Reflective Grating aluminum coated and supplied with appropriate holder/mount | |
| High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm (2) core diameter for 1000 ±15 µm µm (2) core diameter for 1000 ± 5 µm (4) Cutoff wavelength 00 ± 5 µm (4) Cutoff wavelength 650 ± 5 µm (4) Cutoff wavelength 600 ± 5 µm (4) Cutoff wavelength 800 ± 5 µm. (2) core diameter for 1000 km (2) core diameter for 475-785 µm, Cutoff wavelength 800 ± 5 µm. BN-50nm Bardpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519m, BW-50nm Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 µm). Reflectivity (Rs) (avg)>99%, Rg (avg)=200, mm, Ravg)>80% at 632.8 µm or better; Damage Threshold of 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsec pulses within the wavelength frame. 2.50. Retroeffector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors in each kit is as following: (1) Pair of 1 inch diameter plane mirrors, wavelength range: 600 - 2000 nm, having Surface Quality 15-5 scratch-dig; Surface Flatenses λ/10 at 632.8 µm; and Angle of Incidence in the range o | High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness - λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. Cutoff wavelength 650 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. Braadpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519nm, BW-50nm Braadpast dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 mm, R(avg)>99%, Rp (avc)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsee pulses within the wavelength range: 650 - 20000 nm, having Surface Quality 15-5 scratch-dig soft lines, stollowing: Pair of 1 inch diameter plane mirrors, wavelength range: 650 - 20000 nm, having Surface Quality 15-5 scratch-dig; Surface Flatness /10 at 632.8 nm; and Angle of Incidence in the range of 0-45°. Pair of 1 inch diameter protected gold plane mirrors, wavelength range: | 2.45. | that can be fixed on a post. Spectral range of 500-1200 nm. Ruled with 1200/mm (lines/mm), | |
| High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm, 0.22 NA (2) core diameter of 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm, 0.22 NA (2) core diameter for 1000 ±15 µm µm (2) core diameter for 1000 ±15 µm µm (2) core diameter for 1000 ± 5 µm (4) Cutoff wavelength 00 ± 5 µm (4) Cutoff wavelength 650 ± 5 µm (4) Cutoff wavelength 600 ± 5 µm (4) Cutoff wavelength 800 ± 5 µm. (2) core diameter for 1000 km (2) core diameter for 475-785 µm, Cutoff wavelength 800 ± 5 µm. BN-50nm Bardpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519m, BW-50nm Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 µm). Reflectivity (Rs) (avg)>99%, Rg (avg)=200, mm, Ravg)>80% at 632.8 µm or better; Damage Threshold of 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsec pulses within the wavelength frame. 2.50. Retroeffector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors in each kit is as following: (1) Pair of 1 inch diameter plane mirrors, wavelength range: 600 - 2000 nm, having Surface Quality 15-5 scratch-dig; Surface Flatenses λ/10 at 632.8 µm; and Angle of Incidence in the range o | High laser power multimode fiber patch cables, 500-2100 nm or better, SMA to SMA termination, stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness - λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. Cutoff wavelength 650 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. Braadpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519nm, BW-50nm Braadpast dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 mm, R(avg)>99%, Rp (avc)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsee pulses within the wavelength range: 650 - 20000 nm, having Surface Quality 15-5 scratch-dig soft lines, stollowing: Pair of 1 inch diameter plane mirrors, wavelength range: 650 - 20000 nm, having Surface Quality 15-5 scratch-dig; Surface Flatness /10 at 632.8 nm; and Angle of Incidence in the range of 0-45°. Pair of 1 inch diameter protected gold plane mirrors, wavelength range: | | wavelength of maximum efficiency 800nm. Dimensions ~ 25 x 25 x 6 mm. | |
| 2.46. stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 nm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. [3] Cutoff wavelength 500 ± 5 nm [4] Cutoff wavelength 650 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-788 nm. Cutoff wavelength 800 ± 5 nm. 2.50. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519nm, BW~50nm Broadband dichroic mirror for ultrafast tasers, 1 inch diameter for ~700-950 nm reflection, Surface 2.51. Bandpass filter, 1 lone diameter (10) or better at 632.8 nm). Reflectivity (Rs) (avg)>9%, Rp (ave)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 1/cm2 or better with 10 nsec pulses within the wavelength range. Retroreflector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors to be used in delay lines. The mount should be fixable on standards posts. The specifications of the mirrors in each kit is as following: (1) Pair of 1 inch diameter protected gold plane mirrors, wavelength range: 650 - 20000 nm, having Surface Quality 15-5 scratch-dig; Surface Flatenss 3/10 at 632.8 nm; and Angle of Incidence in the range of 0-45°. (2) Pair of 1 inch | stainless steel jacket, 2 m length or more. Two types are required: (1) core diameter of 550 ±12 µm, 0.22 NA. Ultrafast Lasse Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370-2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. Cutoff wavelength 050 ± 5 nm Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold. Surface Quality 80-50 scratch-dig: Center wavelength 519nm, BW-50nm Broadband dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J cm2 or better with 10 nsec pulses within the wavelength range. Retoreflector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors to be used in delay lines. The mount should be fixable on standards posts. The specifications of the mirrors in each kit is as following: (1) Pair of 1 inch diameter protected gold plane mirrors, wavelength range: 650 - 20000 nm, having Surface Planess of λ/10 at 632.8 nm or better; Damage Threshold of 50 W/cm2 (cw), 5 mJ/cm2 (10-ns pulse) or better. | | | |
| 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA 2.47. Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370- 2000 nm, surface flatness ~ λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. [3] Cutoff wavelength 650 ± 5 nm 2.49. Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. 2.50. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519nm, BW~50nm 8. Proadband dichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 nm), Reflectivity (Rs) (avg)>99%, Rp (ave)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsec pulses within the wavelength range. 2.51. Retroreflector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors to be used in delay lines. The mount should be fixable on standards posts. The specifications of the mirrors in each kit is as following: (1) Pair of 1 inch diameter protected gold plane mirrors, wavelength range: 650 - 20000 nm, having Surface Quality 15-5 scratch-dig; Surface F | 0.22 NA, and (2) core diameter of 1000 ±15 µm µm, 0.22 NA 2.47. Ultrafast Laser Brewster Angle Dispersing SF10 Prism, optimized for transmission range of 370- 2000 nm, surface flatness - λ/10 at 632.8 nm, Surface Quality 40-20 scratch-dig. Dimensions A=B=C = 15.0 mm 2.48. Long wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80%. [3] Cutoff wavelength 500 ± 5 nm [4] Cutoff wavelength 650 ± 5 nm [5] Short wave pass Dichroic Filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Transmission ≥80% in the range of 475-785 nm. Cutoff wavelength 800 ± 5 nm. 2.50. Bandpass filter, 1 inch diameter mounted in SM-1 threaded mount, thickness <7mm, high laser damage threshold, Surface Quality 80-50 scratch-dig; Center wavelength 519m, BW-50nm Broadband fichroic mirror for ultrafast lasers, 1 inch diameter for ~700-950 nm reflection, Surface Quality 15-5 scratch-dig and flat surface (λ/10 or better at 632.8 nm), Reflectivity (Rs) (avg)>99%, Rp (ave)>97% @ 700-950 nm, R(avg)>80% at 632.8 nm or better; Damage Threshold 1000 W/cm2 CW or 1 J/cm2 or better with 10 nsec pulses within the wavelength range. 2.51. Retroreflector kits consisting of two mirrors mounted on appropriate mount for holding the two mirrors to be used in delay lines. The mount should be fixable on standards posts. The specifications of the mirrors in each kit is as following: (1) Pair of 1 inch diameter plane mirrors, wavelength range: 600-0000 nm, having Surface Quality 15-5 scratch-dig; Surface Flatnes | 2.46. | | |
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| 3. 40X and 0.65 NA, with working distance of 0.6 mm or more | Linear Polarizer, anti reflection coating ~750-850 nm, diameter 25.4 mm mounted in appropriate | | | |
| Linear Polarizer, anti reflection coating ~750-850 nm, diameter 25.4 mm mounted in appropriate | holder/mount, Having transmission Tp >79-94% and Surface Quality 40-20 scratch-dig or better, in | 2.54 | Linear Polarizer, anti reflection coating ~750-850 nm, diameter 25.4 mm mounted in appropriate | |
| 2.57 holder/mount Having transmission Tr > 70.040% and Surface Quality 40.20 seretch dig or better in | | 2.34. | holder/mount, Having transmission Tp >79-94% and Surface Quality 40-20 scratch-dig or better, in | |

| | SM-1 threaded mount. Damage threshold ~ 1000 W/cm2 CW or 6 J/cm2 with 13 nsec pulses at 1064 nm (pass), typical, 30 W/cm2 CW, 0.17 J/cm2 with 13 nsec pulses at 1064 nm (block). Efficiency : Tp/Ts >10,000:1; in the specified wavelength range | |
|-------|---|--|
| 2.55. | Achromatic Half-Wave Plate made of quartz-MgF2, mounted in 1 inch (25.4 mm) diameter mount, wavelength range 400 - 700 nm, Surface Quality of 40-20 scratch-dig, Damage Threshold of 5 J/cm2 with 10 nsec pulses at 1064 nm. Retardation accuracy ~ $\pm \lambda/50$ to $\pm \lambda/100$. | |
| 2.56. | Achromatic Quarter Wave Plate made of quartz-MgF2, mounted in 1 inch (25.4 mm) mount, 400 - 700 nm wavelength range, Surface Quality of 40-20 scratch-dig, Damage Threshold of 5 J/cm2 with 10 nsec pulses at 1064 nm. Retardation accuracy ~ $\pm \lambda/50$ to $\pm \lambda/100$. | |
| 2.57. | Rotation Mount with adaptor for 1 inch diameter optics, and 0.5 inch (12.5 mm) thick optics, 360 degree course (Graduations 2 °) and 10 arc-min precision vernier rotation, M4 tapped hole for hole posting | |
| 2.58. | Mounted Wollaston Prism, 20° Beam Separation for wavelength range $350 - 2300$ nm, Anti reflection Coating for the wavelength range of $650 - 1000$ nm with Extinction Ratio of Tp/Ts > 100,000:1 and Surface Quality of 20-10. Mounted in appropriate mount with outer diameter of 1 inch. | |
| 2.59. | Mounted 1 inch Polarizing Beamsplitter Cube with antireflection coating for 420 - 680 nm supplied in appropriate mount. Reflected Beam Deviation of $90^{\circ} \pm 5$ arc min, Damage Threshold 2000 W/cm2 CW, 1 J/cm2 with a 10 nsec pulse, Extinction Ratio of Tp/Ts >500:1. | |
| 2.60. | SM1 lever actuated iris diaphragm for beam diameter, (1) minimum of ~0.5 mm to maximum ~12 mm and (ii) minimum of ~1 mm to max of ~25 mm. Supplied with proper post of thickness 0.5 inch. | |
| 2.61. | Mounted zero aperture iris with maximum aperture size of (a) ~12 mm and (b) ~25 mm. Supplied with 0.5 inch thick post. | |
| 2.62. | Scanning slit optical beam profiler. Wavelength range 190-1100nm, beam diameters ~100micron to ~9mm. Pixel Size of ~9.9 x 9.9 μ m with ~640x480 pixels, Saturation Intensity of >2 μ W/cm2. Supplied with controller and other accessories (computer controller, standalone software, labview drivers, cables etc.,). | |
| 2.63. | VIS/IR cards of 1.25 x 3.25 inch. Wavelength range 800 nm-1700nm, where Sensor Size should be 0.5 x 0.5 inch or larger. | |
| 2.64. | Laser Safety Glasses made of polycarbonate material, 1. UV safety, Light Orange Lenses, 190 to 532 nm, OD = 7+ (50% VLT) 2. IR safety, Green Lenses, 810nm-1100nm, OD>7+, 190-420 nm - OD>9, @1064 OD>10. 32% Visible Light Transmission, | |
| | Item 3: Optical detectors (assorted) - 1 set | |
| 3.3. | UV enhanced Silicon high speed and biased detector for wavelength 200-1100nm with ~1.5 ns rise time or better, Responsivity >0.5 A/W @ 830 nm, Bandwidth 200 MHz, Saturation Current of 2.5 mA or better. SM1 mountable, mounting holes 8-32 Taps. BNV output connector, Active area ~ 2mm or larger diameter, NEP < 0.1 pW/sqrt(Hz). With compatible power supply or batteries. | |
| 3.4. | Large area balanced amplified Si photo detector for wavelength 400-1050 nm. Common-mode noise rejection by 40 dB. Rise time of 500 ns or shorter, Bandwidth > 1 MHz, Active area of the detector ~ 8 mm diameter. Output connector BNC type, NEP < 90 pW/sqrt(Hz), responsivity 0.6 A/W @ 920 nm or better, Detector diameter of 8 mm or better, Conversion Gain of Maximum 1.2 x 10^6 V/W. Supplied with appropriate DC regulated power supply and computer interface. | |
| | The quotations will be technically qualified only if the OEM/OEM Authorized Dealer quotes ALL Items and are to be from single OEM. This is part of technical requirement | |

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature of Bidder

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _____

<< Organization Letter Head >> DECLARATION SHEET

We, _______ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The prices quoted in the financial bids are subsidized due to academic discount given to IIT Delhi.

| We, further specifically certify that our | NAME & ADDRESS OF |
|---|----------------------------------|
| organization has not been Black Listed/De | THE Vendor/ Manufacturer / Agent |
| Listed or put to any Holiday by any | |
| Institutional Agency/ Govt. Department/ | |
| Public Sector Undertaking in the last three | |
| years. | |
| 1 Phone | |
| | |
| 2 Fax | |
| | |
| 3 E-mail | |
| | |
| 4 Contact Person Name | |
| | |
| 5 Mobile Number | |
| | |
| 6 TIN Number | |
| | |
| 7 PAN Number | |
| | |
| (In case of on-line payment of Tender | |
| Fees) | |
| | |
| 8 UTR No. (For Tender Fee) | |
| (In case of on-line payment of EMD) | |
| | |
| 9 UTR No. (For EMD) | |

(Signature of the Tenderer)

Name:

Seal of the Company

List of Govt. Organization/Deptt.

| List of Government Organizations for whom the Bidder has undertaken such work during last three years (must be supported with work orders) | | | | | | |
|--|------------------------|-------------|--|--|--|--|
| Name of the organization | Name of Contact Person | Contact No. | | | | |
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| Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period. | | | | | | | |
|--|------------------------|-------------|--|--|--|--|--|
| Name of the organization | Name of Contact Person | Contact No. | | | | | |
| | | | | | | | |
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| | | | | | | | |

Signature of Bidder

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _____

Bid Submission

Online Bid Submission :

The Online bids (complete in all respect) must be uploaded online in Two Envelops as explained below:-

| Sl. No. | Documents | Content | File Types |
|---------|---------------|--|------------|
| 1. | Technical Bid | All Technical details item-wise and compliance Sheet as per Annexure - I | .PDF |
| 2. | | Technical supporting documents in support of all claims made at Annexure-I (Annexure-II) | .PDF |
| 3. | | List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III) | .PDF |
| 4. | | Organization Declaration Sheet as per Annexure – IV | .PDF |
| | | | |
| Sl. No. | TYPES | Content | |
| 1. | Financial Bid | Price bid with details of individual items should be submitted in PDF format. | .PDF |

<Department/Centre Name> Indian Institute of Technology Delhi Hauz Khas, New Delhi-110016

Date: XX/XX/XXXX

Subject: Purchase of Optical and Optomechanical components

| S. No. | Currency | Description of Item & | Qty. | Unit | Agency | Discount | Ex-works | Packing + | FOB | Insurance | CIF Price |
|--------|----------|-----------------------|-------|-------|------------|----------|-----------|-----------|---------|-----------|-----------|
| | | Specification | in | Price | Commission | | price | Handling | Price | + Frieght | (f+g) |
| | | | Units | | | | (d=a+b-c) | + DOC + | (f=d+e) | (g) | |
| | | | | (a) | (b) | (c) | | Inland | | | |
| | | | | | | | | Frieght | | | |
| | | | | | | | | (e) | | | |
| 1 | | Optical and | | | | | | | | | |
| | | Optomechanical | | | | | | | | | |
| | | components | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

For indigenous items please quote as per following format.

| S. No. | Description of Item & | Qty. in Units | Unit Price in | Excise Duty % | CST/VAT% | Octroi% | Total Price in |
|--------|-----------------------|---------------|---------------|---------------|----------|---------|----------------|
| | Specification | | Rs. | | | | Rs. |
| 1. | Optical and | | | | | | |
| | Optomechanical | | | | | | |
| | components | | | | | | |
| | | | | | | | |