Notice Inviting Quotation (E-Procurement mode)

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

Dated: 26/11/2015

Open Tender Notice No.IITD/BPHY/(SP-305)/2015

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 Accessories and optical components for ultrafast laser systems
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>Se</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 (Institute/Project)	Project Code: RP02684
Is Multi Currency Allowed	YES
Date of Issue/Publishing	26/11/2015 (17:00 Hrs)
Document Download/Sale Start Date	26/11/2015 (17:00 Hrs)
Document Download/Sale End Date	16/12/.2015 (16:00 Hrs)
Date for Pre-Bid Conference	N/A
Venue of Pre-Bid Conference	
Last Date and Time for Uploading of Bids	16/12/2015 (16:00 Hrs)
Date and Time of Opening of Technical Bids	18/12/2015 (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

- 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: 26/11/2015

Tender No: UFO-04/2015-16

Subject: Purchase of accessories and optical components for ultrafast laser systems 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 of accessories and optical components for ultrafast laser systems** 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:

Technical specifications:

Item 1: Optomechanical accessories (assorted) - 1 set

Sl. No.	Item description (all the dimensions are in metric scale only)	Qty.
1.1.	Optical Table having dimensions 1200mm x 2500mm x 210 mm ; Symmetrical isotropic construction in all axes, 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); Surface Flatness: ± 0.1 (over any 1m^2) or better; dynamic defelection< 0.5×10^{-3} (<2micron for 150kg load), total weight ~400-450kg	2
1.2.	Overhead Optical Table Shelf compatible to above optical table, Free Standing, 2.65 m Long, shelf width 600mm (2No), adjustable shelf height (power strips for Indian plugs, if any)	2
1.3.	Set of four passive legs (700 mm height, high load capacity and good stability) for vibration isolation with the necessary mounting and clamping accessories. Vertical resonant frequency (transmissibility) 5Hz (22dB) or lower, load capacity =300-1200kg or better, air pressure = 65-80 psi, black anodized painting.	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; 5 mm stainless steel top and bottom skins with all steel side panels; High-Density Plated Steel Honeycomb (0.26 mm or better), Surface Flatness: ± 0.1 (over any $1m^2$) or better, total weight ~150-175Kg	1
1.5.	Set of four passive rigid legs (700 mm height and load capacity of > 2000 kg) for vibration isolation along with the necessary mounting and clamping accessories. Height adjustment of ± 8 mm (or better) with leveling screw option, non-slip rubber pads.	2 sets (4 legs in each)
1.6.	Solid Aluminum metric nonmagnetic breadboards with anodized black finish coating, through- drilled with 25 mm M6 holes, with following dimensions [1] 300 mm x 300 mm x 12.7 mm [2] 300 mm x 450 mm x 12.7 mm [3] 300 mm x 600 mm x 12.7 mm [4] 300 mm x 900 mm x12.7 mm	2 each
1.7.	Sample stage for translational, rotational and tilt movements having static platform stage made of black anodized aluminum. Tip, Tilt, and Rotation (Micrometer operated),. $\pm 5^{\circ}$ (or better), uncoupled tilt adjustment in pitch and roll together with $\pm 10^{\circ}$ rotation adjustment. M4 tapped holes with 12.5 mm spacing and ~37 mm clear height along with an adjustable clamping arm of height	2 sets

	~40mm.	<u> </u>
1.0	Linear translation stage with M6 taps, micrometer operated;	2 each
1.8.	[1] travel range of ~25 mm	
	[2] travel range of ~50 mm	2
1.9.	Three-Axis (XYZ) Linear Translation Stage with standard micrometer operated (resolution ~ 5 micron) with Static Platform basing 25 mm travel along all axes and M6 tans	2
	micron) with Static Platform having ~25 mm travel along all axes and M6 tapsMechanical metric Kit for Cage Assemblies and Lens Tubes that contains four rigid steel rods on	2 sets
	which optical components can be mounted along with a common optical axis in drawer stackable	2 5015
	cabinet (contains, not limited to)	
	30 mm Cage System Cube, 4-Way	
	Cage Assembly Rods of 6 mm diameter and various lengths (1 to 8 inch);	
1.10.	30 mm Cage system alignment plate with a hole in the center;	
	30 mm Cage Plates, thickness 30 mm having SM1 threaded aperture;	
	SM1 Lens Tubes having bore depth in the range of 0.5 to 2 inch;	
	XY Slip Plate Positioner, Coarse 1 mm;	
	Rotatable cage cube platform;	
1.11.	Continuous 360 degree Rotation Mount for 1 inch diameter Optics with Rotating Dial Face and	2
	rotatable independently of mounted optics, M4 tap	
	Motorized translational stage, Travel range 300 mm, Stepper Motor, Integrated Controller including	1
	power supply, M6 Tapped holes for mounting optomechanics; manual keypad and remote control,	
1.12.	maximum velocity ~ 50 mm/sec, birectional repeatability of better than 2 micron. Necessary	
	accessories for computer control (along with stand alone software, labview drivers, cables etc.,)	
	should be provided.	1
	Fast XY scanning stage, Travel Range 110 mm x 75 mm (or better); Velocity (Max) = 250 mm/s; Movement Remetability < 0.25 mm. Load Canadity 1.0 kg (or better); Minimum achievable	1
1.13.	Movement Repeatability $< 0.25 \mu m$, Load Capacity 1.0 kg (or better); Minimum achievable Movement of 0.1 μm (or better); Necessary sample positioners and computer control accessories	
	(stand alone software, Labview drivers, cables etc.,) should be provided.	
	Continuous 360 degree motorized Rotation Mount with controller, for 1 inch Optics with M4 tap.	1
	Rotational velocity of ~25 degrees/sec. All necessary sample positioners and controller. Necessary	1
1.14.	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- 50nm to 500mm/s with	2
	<1.5 micron reproducibility. Integrated brushless DC servo motor actuators, load capacity ~1Kg.	
1.15.	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.	
1.16.	Lens Mount for 1 inch optics, with Internal and External SM1 Threads, M4 Tap	20
1.17.	Nested 1 inch Lens Holder Inner Ring	10
1.18.	Nested 1 inch Lens Mount Outer Ring, M4 Tap	10
1.19.	Translating Lens Mount for 1 inch Optics	5
1.20.	SM1-Threaded Kinematic Mount for Thin 1 inch Optics	10
1.21.	Right-Angle Kinematic Mirror Mount	4
.22.	Adjustable-Height Optics Clamp	4
.23.	Dual Filter Holder, for 1 inch filter/optics, Stackable, 90 deg flip, with M4 tap	4
1.24.	Flip mount adapter with M4 tapped hole, 90 deg flip	15
1.25.	90° Flip Mount for 1-inch optics, with M4 tap	10
.26.	Fixed 1-inch Optical Mount, with M4 tap	20
1.27.	Kinematic Mount for up to 1.3" (33 mm) Tall Rectangular Optics, Left HandedKinematic mirror Mount for 1 inch Optics having Pitch and Yaw Angular Range of ±4°; Improved	2 40
1.28.	Kinematic mirror Mount for 1 inch Optics having Pitch and Yaw Angular Range of $\pm 4^{-1}$; improved 1/4"-80 Adjuster; Screws for Greater Sensitivity; Removable Adjuster ; Knobs Expose Hex Sockets	40
1.29.	Low Drift 1 inch Mirror Mount, 3 Low-Profile Hex Adjusters	10
.30.	Standard kinematic mirror mounts, 1 inch optics, two axis control, M4 mounting hole	20
.31.	mounts for 2 inch square optics with M4 mounting hole	4
.32.	Kinematic Grating Mount Adapter (Grating Height: 40-60 mm)	4
.33.	Kinematic Grating Mount Adapter (Grating Height: 40 00 mm)	4
.34.	Position Indexing Mount for 1 inch Optics	5
1.35.	SMA Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	5
		5

	Standard Post holder bases, M6 mounting hole	20 each
1 27	[1] 25 mm x 58 mm x 10 mm	
1.37.	[2] 25 mm x 75 mm x 10 mm	
	[3] 50 mm x 75 mm x 10 mm	
1.38.	Heavy duty switchable magnetic base, turn ON-OFF, M6 mounting stud,	5
	Standard Pedestal Posts stainless steel construction, 1 inch (25.4 mm) diameter with M4 removable	20 each
1.39.	stud at one end and M6 tapped hole at other end. lengths: 12.7 mm, 20 mm, 30 mm, 40mm, 50mm,	
	75mm, 100mm, 150 mm	
1.40.	Standard Posts, 0.5 inch (12.7 mm) diameter with M4 removable stud at one end and M6 tapped	20 each
	hole at other end, Lengths = 12.5 mm, 25 mm, 38 mm, 50 mm, 100 mm	
	Studded 31.8 mm diameter Pedestal Base Adapter, M6 Threaded.	20 sets
1.41.	1 inch post spacers (thickness of 0.5, 1 and 2 inches), thread adapters (M6-M6 and M6-M4),	
	pedestal base for clamping and clamping forks, pedestal post clamps, C-clamps for fixing mounts	
	(all for 1 inch diameter pedestal posts)45 degree mounts for 1 inch optics , mountable on 1 inch mirros/lens holders, double sided	10
1.42.	throughput holes,	10
	25 mm diameter Post Holder with Flexure Lock, Pedestal Base, Lengths required are $L = 38$ and 50	10 each
1.43.	mm	10 each
	25.0 mm diameter post mountable Clamp, along with ~50 x 50 mm mounting plate with M6 and M4	2
1.44.	taps,	2
	Screw thread adapter (assorted, metric) kit	2sets
	[1] External M4 Threads, External M3 Threads	
1 4 7	[2] External M4 Threads, Internal M3 Threads	
1.45.	[3] External M6 Threads, Internal M3 Threads	
	[4] Internal M3 x 0.5 Threads, External M6 x 1.0 Threads etc.,	
	[5] Boxed (assorted numbers 5-10)	
1.46.	M3 x 0.5 cap screw kit, 5 mm, 6 mm, 8 mm, 10 mm long (assorted) and M3 x 0.5 setscrew (6mm	1 set
1.40.	long) nuts and washers in a box (aprox. 120-200 each)	
1.47.	M4 x 0.7 cap screw kit, 4 mm, 5 mm, 6 mm, 10 mm long (assorted) and M4 x 0.5 setscrew (12	1 set
1	mm, 16 mm, 20 mm, 25 mm long) in a box (aprox. 150-500 each)	
	M6 x 1.0 cap screw kit, 6 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 30 mm, 35 mm, 45 mm long	1 set
1.48.	(assorted) and M4 x 0.5 setscrew (12 mm, 20 mm long), nuts and washers in a box (aprox. 150-	
	500 each)	a a 1
1.49.	Universal post Holders with Swivel Base (360 deg), hex-locking, lengths required are ~19 mm, 25	20 each
	mm, 38 mm, 51 mm, 76 mm	1 /
1.50.	Bases and Post Holders Essentials Kit, Metric	1 set
1.51.	Standard Post holders, for 12.7 mm diameter, Spring-Loaded Locking, $L = 30$ mm, 50 mm, 100, 150 mm	40 each
1.52.	150 mm Clamping fork for the above (for 1 inch diameter post holders), 44.8 mm counter bored slot, M6	20
1.52.	Clamping fork (for 0.5 inch diameter post holders), 44.8 mm counter bored slot, M6,	20
1.54.	Right Angle Clamp for 0.5 inch diameter Posts, 5 mm Hex	20
1.55.	Right-Angle 25.0 mm diameter to 0.5 inch diameter Post Clamp	5
1.56.	Mini-Post End Clamp (Metric), M3 Tap and Fixed 90° Clamp	30
1.50.	Right-Angle Post Clamp, Fixed 90° Adapter	30
1.58.	Right-Angle Bracket, M3 Holes	5
1.59.	Slip-On Post Collar for 0.5 inch diameter Posts, Metric	50
1.60.	General-Purpose Clamps	50
1.61.	Variable Height Clamp, M3 Tapped, Metric	50
1.62.	Fiber Adapter Plate with External SM1 (1.035"-40) Thread	5
1.63.	SMA Fiber Adapter Plate with External SM1 (1.035"-40) Thread	5
1.64.	7-Piece Precision Screwdriver Set	1 set
1.65.	15-Piece Metric Ball-driver and Hex Key Kit	2 sets
1.66.	9-Piece Color-Coded Hex Key Set, Metric	1 set
1.67.	Breadboard Mountable Ball-driver and Tool Caddy Kit, Metric	1 set
1.68.	Bench top Organizer with Ball-driver Set and Dropper Bottles, Metric	1 set
1.69.	Metric Ball driver Kit Includes 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, and 5 mm	1 set
1.70.	Lens Tissues, 25 Sheets per Booklet, 50 Booklets in a Closeable Box	10 boxes
1.71.	Breadboard Mounting Brackets (Set of Four)	6 sets
1.72.	FCPA Angled Forceps, Solid Stainless Steel	2

1.73.	Kimwipes, 280 Kimwipes per Box,	10 boxes
1.74.	4 Wash Bottles and 3 Glass Dropper Bottles	2 sets
1.75.	Optic Tweezers with Stainless Steel Body and Carbon-Fiber Tips	2
1.76.	Optic Tweezers with Stainless Steel Body and Polyolefin Tips	2
1.77.	Medium Powder-Free Latex Gloves-100 Gloves per pack	5 packs
1.78.	Large Powder-Free Latex Gloves-100 Gloves per pack	5 packs
1.79.	Optical chopper system with blades and controller for frequency modulation from 1 Hz to 10 kHz, Required electronic controller, computer controlled- USB connection (local and remote operation, stand alone software, labview drivers, all required cables etc.,)	1set
1.80.	Optical beam shutter for 0.5 inch beam, compatible for cage system and SM1 lens tubes, electro- mechanical actuator with <10ms, along with shutter controller, BNC for IN/OUT, TTL pulse compatible, programmable (local and remote operation, stand alone software, labview drivers, all required cables etc.,), compatible power supply, computer interface USB (If it is D connector, D to USB converter to be provided)	2 sets

Item 2: Optical elements (assorted) - 1 set

Sl. No.	Item description (all the dimensions are in metric scale only)	Qty.
	Neutral density (ND) dual filter wheel: 12- station in each wheel, for 1 inch (25.4mm) diameter	
2.1.	optics with base assembly. ND filters for $OD = 0.1$ to 3.0 (assorted 12 Nos.) with SM1 threaded	2 sets
	detachable mounts	
	VIS Neutral density (ND) Filters; 1 inch diameter, for wavelength region : VIS (350-1100) nm,	
2.2.	Thickness: 1.0 ± 0.25 mm (mounted with SM1 thread) : Each 1No. with ODs: 0.1 ; 0.2 ; 0.5 ; 1.0 ;	1 set
	2.0; 3.0	
	NIR Neutral density (ND) Filters; 1 inch diameter, for wavelength region : NIR (800-2500) nm,	
2.3.	Thickness: 1.0 ± 0.25 mm (mounted with SM1 thread) : Each 1No. with ODs: 0.1 ; 0.2 ; 0.5 ; 1.0 ;	1 set
	2.0; 3.0	
2.4.	Continuous variable neutral density (ND) filter with OD 0.1-4, Thickness: 1.0 ± 0.25 mm, 2.5 inch	2
2	diameter, mounted in a ring with post that can be fitted on standard 0.5 inch post holder.	-
2.5.	Notch Filter, for wavelength = 1064 nm, full width at half maximum ~ 20 nm, in 1 inch (25.4mm)	1
2.0.	SM1 threaded mount	-
	Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter, with anti-reflection coating for 350-700	
2.6.	nm (VIS), in SM-1 threaded mount.	5 each
	(focal lengths = 25.4 mm, 50 mm,100 mm and 150 mm)	
	Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter, with anti-reflection coating for 650-1050	
2.7.	nm (NIR), in SM-1 threaded mount.	5 each
	(focal length = 25.4 mm, 50 mm, 100 and 150 mm)	
•	Plano-Convex Lens, Fused Silica, 1 inch (25.4mm) diameter, high laser damage threshold, with	
2.8.	anti-reflection coating for 350-700 nm (VIS), in SM-1 threaded mount.	4 each
	(focal length = 50 mm, 75mm, 100 and 150 mm, 300mm)	
2.0	Plano-Convex Lens, Fused Silica, 1 inch (25.4mm) diameter, high laser damage threshold, with	
2.9.	anti-reflection coating for 650-1050 nm (NIR), in SM-1 threaded mount.	4 each
	(focal length = 50 mm, 75mm, 100 and 150 mm, 300mm)	
2.10.	Fiber collimating lens package with focal length (f) ~ 8 mm, numerical aperture = 0.50, anti	2
	reflection coating for ~633 nm, with FC/APC connector	50
2.11.	Protected Aluminum mirrors, 1 inch (25.4mm) diameter	50
2.12.	Protected silver mirrors, 1 inch (25.4mm) diameter	50
2.13.	Wedged Plate prism with 5° Wedge Angle and 1.0" x 2.0" area having antireflection coating in 650-	2
	1050 nm	
2.14.	Beam-splitter, UVFS Plate type, antireflection coating for 350 - 1100 nm, size 25 mm x 36 mm x 1	2 each
	mm for 50:50, 30:70 and 10:90 splitting	
2.15.	Reflective Diffraction Grating, 750 nm Blaze wavelength Ruled with1200/mm (lines/mm), size 25	1
	x 25 x 6 mm	
2.16.	High laser power multimode fiber patch cables, damage threshold> 1 GW/cm ² , 400-2000nm or better SMA to S	
	better, SMA to SMA termination, stainless steel jacket, 2 m length	1 each
	[1] core = \emptyset 550 µm, 0.22 NA [2] Core > \emptyset 000 µm, 0.22 NA	
	[2] Core > \emptyset 900 µm, 0.22 NA	

2.17.	Ultrafast Laser Dispersion-Compensating Prism pairs, 800nm wavelength, SF10, flat surface ($\lambda/20$)	2 pairs
2.18.	Long wave pass Dichroic Filter, 1 inch diameter, thickness <3mm, high laser damage threshold, hard coating [1] Cutoff wavelength 490nm [2] Cutoff wavelength 650nm	2 each
2.19.	Short wave pass Dichroic Filter, 1 inch diameter, thickness <3mm, high laser damage threshold, hard coating, Cutoff wavelength 800nm	1
2.20.	Broadband dichroic mirror for ultrafast lasers, S-pol, 1 inch diameter for ~700-1000 nm reflection, flat surface ($\lambda/10$ or better), R>99.5% or better	10
2.21.	Ultrafast-Enhanced Silver Mirror, 750 - 1000 nm, 1 inch diameter, laser damage= 0.3 J/cm ² (per pulse @ 800 nm, 100 fs)	10
2.22.	Retroreflector (for visible), Uncoated, 1 inch (25.4mm) diameter, SM1-Threaded Mount	1
2.23.	Retroreflector with Anti reflection coating for 650 - 1050 nm (NIR), SM1-Threaded Mount 1 inch (25.4mm) diameter, .	2
2.24.	Retroreflector with Anti reflection coating for 350-700 (UV-VIS) nm in SM1-Threaded Mount,	1
2.25.	Plan Achromatic Objective (VIS-NIR) (RMS (0.800"-36) Threading) infinity corrected[1] 10X and 0.25 NA , 10.6 mm working distance[2] 20X and 0.4 NA , 1.2mm working distance[3] 40X and 0.65 NA , 0.6 mm working distance	1 each
2.26.	Ultrafast Group Delay Dispersion(GVD)compensating Mirrors, dimensions ~20 mm x 50 mm x 10 mm, 700-1000nm, GDD: -175 fs ² at 800 nm with mounts and accessories for assembling in a mirror mount	1 pair
2.27.	Antireflection coated fused silica glass wedges (varying thickness from one end to the other) for fine tuning in pulse compression	1 pair
2.28.	25 mm diameter Wire Grid Polarizer for 250 nm to 4 µm in SM-1 threaded mount	2
2.29.	Achromatic Half-Wave Plate, ¹ / ₂ inch(12.5 mm), 400 - 800 nm SM-1 threaded 1 inch mount	2
2.30.	Achromatic Quarter Wave Plate, ¹ / ₂ inch (12.5 mm), 400 - 800 nm SM-1 threaded 1 inch mount	2
2.31.	Rotation Mount for 0.5 inch (12.5 mm) Optics, 360 degree course and 10 arc-min precision vernier rotation, M4 tapped hole for hole posting	2
2.32.	Mounted Wollaston Prism, 20° Beam Separation, wavelength 650 - 1050 nm Anti reflection Coating	2
2.33.	Mounted 1 inch Polarizing Beamsplitter Cube for 420 - 680 nm	1
2.34.	Polarization-Dependent free space Isolator for 1064 nm, for beam diameter ~3 mm, laser power ~15 W	1
2.35.	SM1 lever actuated iris diaphragm for beam diameter, minimum of ~0.5 mm to maximum of (i) ~12 mm and (ii) ~25 mm	5 each
2.36.	Mounted zero aperture iris with maximum aperture size of (a) ~12 mm and (b) ~25 mm	5 each
2.37.	Mounted frosted glass alignment disk with 1 mm diameter hole	3
2.38.	visible and infrared alignment disk from 400nm-1800nm in SM-1 mount	4
2.39.	Scanning slit optical beam profiler from 200-1100nm for beam diameters from ~2micron to ~9mm. Scan speed 2 to 20 Hz, with controller and other accessories (computer controller, standalone software, labview drivers, cables etc.,)	1
2.40.	Unmounted Light emitting diodes (LED), epoxy-encased, emission at 780 nm, power ~18 mW,	50.
2.41.	Telescoping Inspection Mirror	2
	VIS/IR cards from 400 nm-1700nm wavelength	4
2.42.		

Item 3: Optical detectors (assorted) - 1 set

Sl. No.	Item description (all the dimensions are in metric scale only)	Qty.
3.1.	High resolution CMOS camera with USB 2.0 or 3.0 for fast data acquisition, 1280 x 1024 pixels, color sensor. C mount compatible (or C mount adaptor should be provided), all required cables, software are to be provided	2
3.2.	12 mm fixed focal length camera lens, for 0.5 inch C-Mount Format Cameras (or required C mount adapter to be provided), manual focus and aperture control, with Lock	1 each

	[1] Focal length 12mm, f/1.4	
	[2] Focal length 75mm, f/2.5	
3.3.	Silicon high speed and biased detector for wavelength 200-1100nm with ~1 ns rise time and >10	4
5.5.	mm ² area, SM1 mountable, 8-32 Taps. With compatible power supply or batteries	
3.4.	GaP high speed and biased detector for wavelength 150-550nm with ~1 ns rise time and > 3 mm^2	2
5.4.	area, SM1 mountable, 8-32 Taps. With compatible power adapter/supply or batteries	
3.5.	InGaAs high speed and biased detector for wavelength 800-1800nm with <25 ns rise time and >3	2
5.5.	mm ² area, SM1 mountable, 8-32 Taps. With compatible power supply/adapter or batteries.	
	Large area balanced amplified Si photo detector for wavelength 300-1100 nm with M4 taps, upto	2
3.6.	1MHz, responsivity 0.6 A/W @ 920 nm or better, active area 5mm or larger, required DC regulated	
	power supply with computer interface	
3.7.	Mounted Silicon Photodiode, 350-1100 nm, Cathode Grounded, SM1 threaded, >13mm active area,	2
5.7.	BNC, dark current 1nA or less.	
	Broadband Multi alkali amplified PMT for wavelength ~250nm-850nm. With SM1 threads, active	1
3.8.	area 20mm or larger, responsivity 60mA/W or better, cage lens tube compatible, along with	
	compatible DC regulated power supply.	

<u>The quotations will be technically qualified only if the OEM/OEM Authorized Dealer quotes</u> <u>ALL Items, Item 1,2 and 3 . 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
	without assigning any reason. The committee reserves the right to increase/decrease the quantities
	any of the quoted items.
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
10.	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,
11.	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.	Delivery and Documents:
14.	Delivery of the goods should be made within a maximum of 08 to 16 weeks from the date of
	Derivery of the goods should be made within a maximum of 08 to 10 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
	will have the right to impose penalty 1% per week and the maximum deduction is 10% of the
	contract value / price.
14.	Prices : The price should be quoted in net per unit (after breakup) and must include all packing
11.	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 (eg. perishable chemicals), 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.
	Supplier: (To be filled in by the supplier)
	(All supplier's should submit its supplies information as per Annexure-II).
16.	Progress of Supply : Wherever applicable, supplier shall regularly intimate progress of supply, in
10.	
	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
1	

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

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
	The Supplier is required to provide training, as necessary, 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 placed on CIF/CIP basis, the insurance should be up to IIT Delhi.
25.	Incidental services: The incidental services also include:
	• Furnishing of 01 set of detailed operations & maintenance manual.
	• 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,

	workmanship and poor quality of the components.
27.	Governing Language 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 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.
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.	TaxesSuppliers 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 thetransaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in theorder.
31.	DutiesIIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) andnecessary "Custom Duty Exemption Certificate" can be issued after providing followinginformation and Custom Duty Exemption Certificate will be issued to the shipment in the name ofthe 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 applicablec) Supply Order Copyd) 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,

stallation requirements. Parts upplier may be required to provide any or all of the following materials, notifications, and ation pertaining to spare parts manufactured or distributed by the Supplier: uch spare parts as the Purchaser may elect to purchase from the Supplier, providing that this ection shall not relieve the Supplier of any warranty obligations under the Contract; and the event of termination of production of the spare parts: dvance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and oblowing such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and becifications of the spare parts, if requested. er shall carry sufficient inventories to assure ex-stock supply of consumable spares for the such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be ed as promptly as possible but in any case within six months of placement of order. Tive Equipment : If any of the equipment supplied by the Tenderer is found to be ndard, refurbished, un-merchantable or not in accordance with the description/specification erwise faulty, the committee will have the right to reject the equipment or its part. The
stallation requirements. Parts upplier may be required to provide any or all of the following materials, notifications, and ation pertaining to spare parts manufactured or distributed by the Supplier: uch spare parts as the Purchaser may elect to purchase from the Supplier, providing that this ection shall not relieve the Supplier of any warranty obligations under the Contract; and the event of termination of production of the spare parts: dvance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and oblowing such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and pecifications of the spare parts, if requested. er shall carry sufficient inventories to assure ex-stock supply of consumable spares for the , such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be ed as promptly as possible but in any case within six months of placement of order.
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Parts applier may be required to provide any or all of the following materials, notifications, and ation pertaining to spare parts manufactured or distributed by the Supplier:
Parts upplier may be required to provide any or all of the following materials, notifications, and
stallation requirements. Parts
stallation requirements.
ffer his advice and render assistance to the Institute in the preparation of the site and other
nent to ensure its timely installation and smooth operation thereafter. upplier shall visit the Institute and see the site where the equipment is to be installed and
ements needed for the equipment, which the Institute should arrange before the arrival of the
er must provide complete details regarding space and all the other infrastructural
l for the installation of equipment, immediately after the receipt of the purchase order. The
reparation: The supplier shall inform to the Institute about the site preparation, if any,
(Ref. to Annexure-III)
cation Specialist: The Tenderer should mention in the Techno-Commercial bid the bility and names of Application Specialist and Service Engineers in the nearest regional
Purchaser.
he purposes of taking over until such manuals and drawing have been supplied to the
inless and otherwise agreed, the goods equipment shall not be considered to be completed for
ne contract.
o operate, maintain, adjust and repair all parts of the works as stated in the specifications. The Manuals shall be in the ruling language (English) in such form and numbers as stated in
peration and maintenance manuals. These shall be in such details as will enable the Purchaser
efore the goods and equipment are taken over by the Purchaser, the Supplier shall supply
als and Drawings
ure-III)
list: Brochure detailing technical specifications and performance, list of industrial and ional establishments where the items enquired have been supplied must be provided. (Ref.
orne by the Supplier.
Il the bank charges within India will be borne by the Institute and outside India will be
egotiation of LC documents, subject to DGS&D registration for restricted items.
ommissioning of the goods at the destination at the exchange rate prevailing on the date of
onditions. Indian Agency commission (IAC), if any shall be paid after satisfactory installation &
nconditional performance bank guarantee as specified in Clause 9 of tender terms and
spection, successful installation, commissioning and acceptance of the equipment at IITD in ood condition and to the entire satisfaction of the Purchaser and on production of

	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:i. 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
	ii If the Supplier fails to perform any other obligation(s) under the Contract.
	iii 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:
	i. " 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.
	ii. " 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
10	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)

COMPLIANCE SHEET

TECHNICAL SPECIFICATION

Item 1: Optomechanical accessories (assorted) - 1 set

Sl. No.	Item description (all the dimensions are in metric scale only)	Compliance Y/N
1.81.	Optical Table having dimensions 1200mm x 2500mm x 210 mm; Symmetrical isotropic construction in all axes, 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); Surface Flatness: ± 0.1 (over any 1m ²) or better; dynamic defelection< 0.5×10^{-3} (<2micron for 150kg load), total weight ~400-450kg	
1.82.	Overhead Optical Table Shelf compatible to above optical table, Free Standing, 2.65 m Long, shelf width 600mm (2No), adjustable shelf height (power strips for Indian plugs, if any)	
1.83.	Set of four passive legs (700 mm height, high load capacity and good stability) for vibration isolation with the necessary mounting and clamping accessories. Vertical resonant frequency (transmissibility) 5Hz (22dB) or lower, load capacity =300-1200kg or better, air pressure = 65-80 psi, black anodized painting.	
1.84.	Optical breadboard having dimensions 900 mm x 1500 mm x 110 mm, sealed M6 x 25mm Mounting Holes; 5 mm stainless steel top and bottom skins with all steel side panels; High-Density Plated Steel Honeycomb (0.26 mm or better), Surface Flatness: ± 0.1 (over any 1m^2) or better, total weight ~150-175Kg	
1.85.	Set of four passive rigid legs (700 mm height and load capacity of > 2000 kg) for vibration isolation along with the necessary mounting and clamping accessories. Height adjustment of ± 8 mm (or better) with leveling screw option, non-slip rubber pads.	
1.86.	Solid Aluminum metric nonmagnetic breadboards with anodized black finish coating, through-drilledwith 25 mm M6 holes, with following dimensions1. 300 mm x 300 mm x 12.7 mm2. 300 mm x 450 mm x 12.7 mm3. 300 mm x 600 mm x 12.7 mm4. 300 mm x 900 mm x 12.7 mm	
1.87.	Sample stage for translational, rotational and tilt movements having static platform stage made of black anodized aluminum. Tip, Tilt, and Rotation (Micrometer operated),. $\pm 5^{\circ}$ (or better), uncoupled tilt adjustment in pitch and roll together with $\pm 10^{\circ}$ rotation adjustment. M4 tapped holes with 12.5 mm spacing and ~37 mm clear height along with an adjustable clamping arm of height ~40mm.	
1.88.	Linear translation stage with M6 taps, micrometer operated; 1. travel range of ~25 mm 2. travel range of ~50 mm	
1.89.	Three-Axis (XYZ) Linear Translation Stage with standard micrometer operated (resolution ~ 5 micron) with Static Platform having ~25 mm travel along all axes and M6 taps	
1.90.	 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) 30 mm Cage System Cube, 4-Way Cage Assembly Rods of 6 mm diameter and various lengths (1 to 8 inch); 30 mm Cage system alignment plate with a hole in the center; 30 mm Cage Plates, thickness 30 mm having SM1 threaded aperture; SM1 Lens Tubes having bore depth in the range of 0.5 to 2 inch; XY Slip Plate Positioner, Coarse 1 mm; Rotatable cage cube platform; 	
1.91.	Continuous 360 degree Rotation Mount for 1 inch diameter Optics with Rotating Dial Face and rotatable independently of mounted optics, M4 tap	
1.92.	Motorized translational stage, Travel range 300 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. Necessary accessories for computer control (along with stand alone software, labview drivers, cables etc.,) should	

	be provided.	
	Fast XY scanning stage, Travel Range 110 mm x 75 mm (or better); Velocity (Max) = 250 mm/s;	
	Movement Repeatability $< 0.25 \ \mu\text{m}$, Load Capacity 1.0 kg (or better); Minimum achievable	
1.93.	Movement of 0.1 μ m (or better); Necessary sample positioners and computer control accessories (stand	
	alone software, Labview drivers, cables etc.,) should be provided.	
	Continuous 360 degree motorized Rotation Mount with controller, for 1 inch Optics with M4 tap.	
1.04	Rotational velocity of ~25 degrees/sec. All necessary sample positioners and controller. Necessary	
1.94.	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- 50nm to 500mm/s with <1.5	
1.95.	micron reproducibility. Integrated brushless DC servo motor actuators, load capacity ~1Kg.	
1.75.	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.	
1.96.	Lens Mount for 1 inch optics, with Internal and External SM1 Threads, M4 Tap	
1.97.	Nested 1 inch Lens Holder Inner Ring	
1.98.	Nested 1 inch Lens Mount Outer Ring, M4 Tap	
1.99.	Translating Lens Mount for 1 inch Optics	
1.100.	SM1-Threaded Kinematic Mount for Thin 1 inch Optics	
1.101.	Right-Angle Kinematic Mirror Mount	
1.102.	Adjustable-Height Optics Clamp	
1.103.	Dual Filter Holder, for 1 inch filter/optics, Stackable, 90 deg flip, with M4 tap	
1.104.	Flip mount adapter with M4 tapped hole, 90 deg flip	
1.105.	90° Flip Mount for 1-inch optics, with M4 tap	
1.106.	Fixed 1-inch Optical Mount, with M4 tap	
1.107.	Kinematic Mount for up to 1.3" (33 mm) Tall Rectangular Optics, Left Handed	
1.108.	Kinematic mirror Mount for 1 inch Optics having Pitch and Yaw Angular Range of ±4°; Improved	
	1/4"-80 Adjuster; Screws for Greater Sensitivity; Removable Adjuster ; Knobs Expose Hex Sockets	
1.109.	Low Drift 1 inch Mirror Mount, 3 Low-Profile Hex Adjusters	
1.110.	Standard kinematic mirror mounts, 1 inch optics, two axis control, M4 mounting hole	
1.111.	mounts for 2 inch square optics with M4 mounting hole	
1.112.	Kinematic Grating Mount Adapter (Grating Height: 40-60 mm)	
1.113.	Kinematic Grating Mount Adapter (Grating Height: 20-40 mm)	
1.114.	Position Indexing Mount for 1 inch Optics	
1.115.	SMA Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	
1.116.	FC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	
	Standard Post holder bases, M6 mounting hole	
1.117.	1. 25 mm x 58 mm x 10 mm 2. 25 mm x 75 mm x 10 mm	
	2. 25 mm x 75 mm x 10 mm 3. 50 mm x 75 mm x 10 mm	
1.118.	Heavy duty switchable magnetic base, turn ON-OFF, M6 mounting stud,	
1.110.	Standard Pedestal Posts stainless steel construction, 1 inch (25.4 mm) diameter with M4 removable	
1.119.	studiated redestar rosts stanless steer construction, 7 men (25.4 mm) draneer with 104 removable stud at one end and M6 tapped hole at other end. lengths: 12.7 mm, 20 mm, 30 mm, 40mm, 50mm,	
1.11).	75mm, 100mm, 150 mm	
	Standard Posts, 0.5 inch (12.7 mm) diameter with M4 removable stud at one end and M6 tapped hole at	
1.120.	other end, Lengths = 12.5 mm, 25 mm, 38 mm, 50 mm, 100 mm	
	Studded 31.8 mm diameter Pedestal Base Adapter, M6 Threaded.	
1 1 2 1	1 inch post spacers (thickness of 0.5, 1 and 2 inches), thread adapters (M6-M6 and M6-M4), pedestal	
1.121.	base for clamping and clamping forks, pedestal post clamps, C-clamps for fixing mounts (all for 1 inch	
	diameter pedestal posts)	
1.122.	45 degree mounts for 1 inch optics, mountable on 1 inch mirros/lens holders, double sided throughput	
1.122.	holes,	
1.123.	25 mm diameter Post Holder with Flexure Lock, Pedestal Base, Lengths required are $L = 38$ and 50	
1.123.	mm	
1.124.	25.0 mm diameter post mountable Clamp, along with ~50 x 50 mm mounting plate with M6 and M4	
	taps,	
1 1 2 5	Screw thread adapter (assorted, metric) kit	
1.125.	 External M4 Threads, External M3 Threads External M4 Threads, Internal M3 Threads 	
	2. External M4 Threads, Internal M3 Threads	

	3. External M6 Threads, Internal M3 Threads	
	4. Internal M3 x 0.5 Threads, External M6 x 1.0 Threads etc.,	
	5. Boxed (assorted numbers 5-10)	
1.126.	M3 x 0.5 cap screw kit, 5 mm, 6 mm, 8 mm, 10 mm long (assorted) and M3 x 0.5 setscrew (6mm	
1.120.	long) nuts and washers in a box (aprox. 120-200 each)	
1 1 2 7	M4 x 0.7 cap screw kit, 4 mm, 5 mm, 6 mm, 10 mm long (assorted) and M4 x 0.5 setscrew (12 mm,	
1.127.	16 mm, 20 mm, 25 mm long) in a box (aprox. 150-500 each)	
	M6 x 1.0 cap screw kit, 6 mm, 10 mm, 12 mm, 16 mm, 20 mm, 25 mm, 30 mm, 35 mm, 45 mm long (
1.128.	assorted) and M4 x 0.5 setscrew (12 mm, 20 mm long), nuts and washers in a box (aprox. 150-500	
	each)	
1.129.	Universal post Holders with Swivel Base (360 deg), hex-locking, lengths required are ~19 mm, 25	
	mm, 38 mm, 51 mm, 76 mm	
1.130.	Bases and Post Holders Essentials Kit, Metric	
1.131.	Standard Post holders, for 12.7 mm diameter, Spring-Loaded Locking, L = 30 mm, 50 mm, 100, 150	
	mm	
1.132.	Clamping fork for the above (for 1 inch diameter post holders), 44.8 mm counter bored slot, M6	
1.133.	Clamping fork (for 0.5 inch diameter post holders), 44.8 mm counter bored slot, M6,	
1.134.	Right Angle Clamp for 0.5 inch diameter Posts, 5 mm Hex	
1.135.	Right-Angle 25.0 mm diameter to 0.5 inch diameter Post Clamp	
1.136.	Mini-Post End Clamp (Metric), M3 Tap and Fixed 90° Clamp	
1.137.	Right-Angle Post Clamp, Fixed 90° Adapter	
1.138.	Right-Angle Bracket, M3 Holes	
1.139.	Slip-On Post Collar for 0.5 inch diameter Posts, Metric	
1.140.	General-Purpose Clamps	
1.141. 1.142.	Variable Height Clamp, M3 Tapped, Metric Fiber Adapter Plate with External SM1 (1.035"-40) Thread	
1.142.	SMA Fiber Adapter Plate with External SM1 (1.035"-40) Thread	
1.143.	7-Piece Precision Screwdriver Set	
1.144.	15-Piece Metric Ball-driver and Hex Key Kit	
1.146.	9-Piece Color-Coded Hex Key Set, Metric	
1.140.	Breadboard Mountable Ball-driver and Tool Caddy Kit, Metric	
1.148.	Bench top Organizer with Ball-driver Set and Dropper Bottles, Metric	
1.149.	Metric Ball driver Kit Includes 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, and 5 mm	
1.150.	Lens Tissues, 25 Sheets per Booklet, 50 Booklets in a Closeable Box	
1.151.	Breadboard Mounting Brackets (Set of Four)	
1.152.	FCPA Angled Forceps, Solid Stainless Steel	
1.153.	Kimwipes, 280 Kimwipes per Box,	
1.154.	4 Wash Bottles and 3 Glass Dropper Bottles	
1.155.	Optic Tweezers with Stainless Steel Body and Carbon-Fiber Tips	
1.156.	Optic Tweezers with Stainless Steel Body and Polyolefin Tips	
1.157.	Medium Powder-Free Latex Gloves-100 Gloves per pack	
1.158.	Large Powder-Free Latex Gloves-100 Gloves per pack	
	Optical chopper system with blades and controller for frequency modulation from 1 Hz to 10 kHz,	
1.159.	Required electronic controller, computer controlled- USB connection (local and remote operation,	
	stand alone software, labview drivers, all required cables etc.,)	
	Optical beam shutter for 0.5 inch beam, compatible for cage system and SM1 lens tubes, electro-	
	mechanical actuator with <10ms, along with shutter controller, BNC for IN/OUT, TTL pulse	
1.160.	compatible, programmable (local and remote operation, stand alone software, labview drivers, all	
	required cables etc.,), compatible power supply , computer interface USB (If it is D connector, D to	
	USB converter to be provided)	

Item 2: Optical elements (assorted) - 1 set

SI. N	D. Item description (all the dimensions are in metric scale only)	Compliance Y/N
2.44.	Neutral density (ND) dual filter wheel: 12- station in each wheel, for 1 inch (25.4mm) diameter optics with base assembly. ND filters for $OD = 0.1$ to 3.0 (assorted 12 Nos.) with SM1 threaded detachable	
	mounts	
2.45.	VIS Neutral density (ND) Filters; 1 inch diameter, for wavelength region : VIS (350-1100) nm,	

Thickness: 1.0 ± 0.25 mm (mounted with SM1 thread) : Each 1No. wi 2.0; 3.02.46.NIR Neutral density (ND) Filters; 1 inch diameter, for wavelength region Thickness: 1.0 ± 0.25 mm (mounted with SM1 thread) : Each 1No. wi set 1No. with SM1 thread) : Each 1No. with SM1 thread) :	
2.46. Thickness: 1.0 ± 0.25 mm (mounted with SM1 thread) : Each 1No. with the second secon	on : NIR (800-2500) nm,
2.46. Thickness: 1.0 ± 0.25 mm (mounted with SM1 thread) : Each 1No. with thread in the second se	,
2.0; 3.0	
2 47 Continuous variable neutral density (ND) filter with OD 0.1-4, Thickne	
diameter, mounted in a ring with post that can be fitted on standard 0.5	
2.48. Notch Filter, for wavelength = 1064 nm , full width at half maximum ~ SM1 threaded mount	
Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter, with anti-refle	ction coating for 350-700 nm
2.49. (VIS), in SM-1 threaded mount.	
(focal lengths = 25.4 mm , 50 mm , 100 mm and 150 mm)	
Plano-Convex Lens, N-BK7, 1 inch (25.4mm) diameter, with anti-refle	ection coating for 650-1050 nm
2.50. (NIR), in SM-1 threaded mount.	C .
(focal length = 25.4 mm, 50 mm, 100 and 150 mm)	
Plano-Convex Lens, Fused Silica, 1 inch (25.4mm) diameter, high laser	r damage threshold, with anti-
2.51. reflection coating for 350-700 nm (VIS), in SM-1 threaded mount.	uninge un conord, with and
(focal length = 50 mm , 75mm , $100 \text{ and } 150 \text{ mm}$, 300mm)	
Plano-Convex Lens, Fused Silica, 1 inch (25.4mm) diameter, high laser	r damage threshold with anti
2.52. reflection coating for 650-1050 nm (NIR), in SM-1 threaded mount.	damage uneshold, with anti-
(focal length = 50 mm , 75mm , $100 \text{ and } 150 \text{ mm}$, 300mm)	
2.53. Fiber collimating lens package with focal length (f) ~ 8 mm, numerical a	iperture = 0.50, anti reflection
2.55. coating for ~633 nm, with FC/APC connector	
2.54. Protected Aluminum mirrors, 1 inch (25.4mm) diameter	
2.55. Protected silver mirrors, 1 inch (25.4mm) diameter	
2.56. Wedged Plate prism with 5° Wedge Angle and 1.0" x 2.0" area having 1050 nm	
2.57. Beam-splitter, UVFS Plate type, antireflection coating for 350 - 1100 m for 50:50, 30:70 and 10:90 splitting	
2.58. Reflective Diffraction Grating, 750 nm Blaze wavelength Ruled with 12 25 x 6 mm	200/mm (lines/mm), size 25 x
High laser power multimode fiber patch cables, damage threshold> 1G	W/cm ² , 400-2000nm or better,
SMA to SMA termination, stainless steel jacket, 2 m length	
2.59. 1. core = \emptyset 550 µm, 0.22 NA	
2. Core > \emptyset 900 µm, 0.22 NA	
2.60. Ultrafast Laser Dispersion-Compensating Prism pairs, 800nm waveleng	th, SF10, flat surface ($\lambda/20$)
Long wave pass Dichroic Filter, 1 inch diameter, thickness <3mm, high	
coating	
2.61. 1. Cutoff wavelength 490nm	
2. Cutoff wavelength 650nm	
Short wave pass Dichroic Filter 1 inch diameter, thickness <3mm high	n laser damage threshold hard
2.62. Short wave pass Denior Price, Principal and the diameter , the kness <5min, high coating, Cutoff wavelength 800nm	nuser aumuge unesnora, nura
Broadband dichroic mirror for ultrafast lasers S-pol 1 inch diameter f	or ~700-1000 nm reflection
2.63. Encode and the information of an analysis (3-point) in the matrice in the matrix is a set of the information of the info	
Ultrafast-Enhanced Silver Mirror, 750 - 1000 nm, 1 inch diameter, laser	$d_{amaga-} 0.2 I_{am}^2 (man mulas)$
	damage= 0.5 J/cm ² (per pulse
2.64. @ 800 nm, 100 fs)	
2.65. Retroreflector (for visible), Uncoated, 1 inch (25.4mm) diameter, SM1-	
2.66. Retroreflector with Anti reflection coating for 650 - 1050 nm (NIR), SM (25.4mm) diameter, .	11-Threaded Mount 1 inch
2.67. Retroreflector with Anti reflection coating for 350-700 (UV-VIS) nm in	n SM1-Threaded Mount.
Plan Achromatic Objective (VIS-NIR) (RMS (0.800"-36) Threading) in	
1 10X and 0.25 NA 10.6 mm working distance	, · · · · · · · ·
2.68. 2. 20X and 0.4 NA , 1.2mm working distance	
3. 40X and 0.65 NA, 0.6 mm working distance	
Ultrafast Group Delay Dispersion(GVD)compensating Mirrors, dimen	sions ~20 mm x 50 mm x 10
2.69. mm , 700-1000nm, GDD: -175 fs ² at 800 nm with mounts and accessorie	
-2.07, -1 mm, -1000 mm, -170 is at -100 mm with mounts and -2.07	
	I
mount	and and to the other) for fine
	one end to the other) for fine

Achromatic Half-Wave Plate, ½ inch(12.5 mm), 400 - 800 nm SM-1 threaded 1 inch mountAchromatic Quarter Wave Plate, ½ inch (12.5 mm), 400 - 800 nm SM-1 threaded 1 inch mountRotation Mount for 0.5 inch (12.5 mm) Optics, 360 degree course and 10 arc-min precision vernierrotation, M4 tapped hole for hole postingMounted Wollaston Prism, 20° Beam Separation, wavelength 650 - 1050 nm Anti reflection Coating
Rotation Mount for 0.5 inch (12.5 mm) Optics, 360 degree course and 10 arc-min precision vernier rotation, M4 tapped hole for hole postingMounted Wollaston Prism, 20° Beam Separation, wavelength 650 - 1050 nm Anti reflection Coating
rotation, M4 tapped hole for hole posting Mounted Wollaston Prism, 20° Beam Separation, wavelength 650 - 1050 nm Anti reflection Coating
Mounted Wollaston Prism, 20° Beam Separation, wavelength 650 - 1050 nm Anti reflection Coating
Mounted 1 inch Polarizing Beamsplitter Cube for 420 - 680 nm
Polarization-Dependent free space Isolator for 1064 nm, for beam diameter ~3 mm, laser power ~15 W
SM1 lever actuated iris diaphragm for beam diameter, minimum of ~0.5 mm to maximum of (i) ~12 mm and (ii) ~25 mm
Mounted zero aperture iris with maximum aperture size of (a) ~12 mm and (b) ~25 mm
Mounted frosted glass alignment disk with 1 mm diameter hole
visible and infrared alignment disk from 400nm-1800nm in SM-1 mount
Scanning slit optical beam profiler from 200-1100nm for beam diameters from ~2micron to ~9mm. Scan speed 2 to 20 Hz, with controller and other accessories (computer controller, standalone software, labview drivers, cables etc.,)
Unmounted Light emitting diodes (LED), epoxy-encased, emission at 780 nm, power ~18 mW,
Telescoping Inspection Mirror
VIS/IR cards from 400 nm-1700nm wavelength
 Laser Safety Glasses, UV safety, Light Orange Lenses, 180 to 532 nm, OD = 7+ (48%) universal IR safety, Green Lenses, 800nm-1100nm, OD>3+, 19% Visible Light Transmission, Universal Style

Item 3: Optical detectors (assorted) - 1 set

(All the components must be in metric scale only)

Sl. No.	Item description (all the dimensions are in metric scale only)	Compliance Y/N
3.9.	High resolution CMOS camera with USB 2.0 or 3.0 for fast data acquisition, 1280 x 1024 pixels, color sensor. C mount compatible (or C mount adaptor should be provided), all required cables, software are to be provided	
3.10.	 12 mm fixed focal length camera lens, for 0.5 inch C-Mount Format Cameras (or required C mount adapter to be provided), manual focus and aperture control, with Lock [3] Focal length 12mm, f/1.4 [4] Focal length 75mm, f/2.5 	
3.11.	Silicon high speed and biased detector for wavelength 200-1100nm with ~1 ns rise time and >10 mm^2 area, SM1 mountable, 8-32 Taps. With compatible power supply or batteries	
3.12.	GaP high speed and biased detector for wavelength 150-550nm with ~1 ns rise time and > 3 mm^2 area, SM1 mountable, 8-32 Taps. With compatible power adapter/supply or batteries	
3.13.	InGaAs high speed and biased detector for wavelength 800-1800nm with <25 ns rise time and >3 mm^2 area, SM1 mountable, 8-32 Taps. With compatible power supply/adapter or batteries.	
3.14.	Large area balanced amplified Si photo detector for wavelength 300-1100 nm with M4 taps, upto 1MHz, responsivity 0.6 A/W @ 920 nm or better, active area 5mm or larger, required DC regulated power supply with computer interface	
3.15.	Mounted Silicon Photodiode, 350-1100 nm, Cathode Grounded, SM1 threaded, >13mm active area, BNC, dark current 1nA or less.	
3.16.	Broadband Multi alkali amplified PMT for wavelength ~250nm-850nm. With SM1 threads, active area 20mm or larger, responsivity 60mA/W or better, cage lens tube compatible, along with compatible DC regulated power supply.	

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.				

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.				

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.	Sl. No. Documents Content								
1.	Technical Bid	Compliance Sheet as per Annexure - I	.PDF						
2.]	Organization Declaration Sheet as per 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.		Technical supporting documents in support of all claims made at Annexure-I (Annexure-IV)	.PDF						
Sl. No.	TYPES	Content							
1.	Financial Bid	Price bid 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 Accessories and optical components for ultrafast laser systems

	<u> </u>							v			
S.	Cur	Description of Item & Specification	Qty.	Unit	Agency	Discount	Ex-works	Packing +	FOB	Insurance	CIF Price
No.	ren		in	Price	Commission		price	Handling	Price	+ Frieght	(f+g)
	cy		Units				(d=a+b-c)	+ DOC +	(f=d+e)	(g)	
				(a)	(b)	(c)		Inland			
								Frieght			
								(e)			
1.		Item 1: Optomechanical accessories									
		(assorted)									
2.		Item 2: Optical elements (assorted)									
3.		Item 3: Optical detectors (assorted)									

For indigenous items please quote as per following format.

S.	Description of Item & Specification	Qty. in	Unit Price in	Excise Duty %	CST/VAT%	Octroi%	Total Price in
No.		Units	Rs.				Rs.
1	Item 1: Optomechanical accessories (assorted)						
2	Item 2: Optical elements (assorted)						
3	Item 3: Optical detectors (assorted)						