Notice Inviting Quotation (E-Procurement mode)
कोटेशन को आमंत्रित करने की सूचना (ई-प्रोक्योरोप्टमॅंट मोड)

INDIAN INSTITUTE OF TECHNOLOGY DELHI
भारतीय प्रौद्योगिकी संस्थान दिल्ली
HAUZ KHAS, NEW DELHI-110016
हौज खास, नई दिल्ली -110016

Dated/ दिनांक : 30/01/2020

Open Tender Notice No. / खुला प्रस्ताव निविदा सूचना नंबर: IITD/BPHY(SP-2862)/2020

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.
इंडियन इंस्टीट्यूट ऑफ टेक्नोलॉजी दिल्ली दलित िरीि की प्रदिय में है।

<table>
<thead>
<tr>
<th>Details of the item</th>
<th>Optical/NIR/IR spectrophotometer for absorption and emission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earnest Money Deposit to be submitted</td>
<td>5% of the quoted item</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 Years/3 साल</td>
</tr>
<tr>
<td>Performance security</td>
<td>5% of FOB value एफओबी मूल्य का 5%</td>
</tr>
<tr>
<td>Delivery Schedule</td>
<td>14-20 weeks from the date of purchase order</td>
</tr>
</tbody>
</table>

Tender Documents may be downloaded from Central Public Procurement Portal http://eprocure.gov.in/eprocure/app . Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website http://eprocure.gov.in/eprocure/app . 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 http://eprocure.gov.in/eprocure/app 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).

कोई मैंयुअल बोली स्वीकार नहीं की जाएगी। सभी कोटेशन (तकनीकी और फाइनान्स दोनों कोई ई-प्रोक्योरोप्टमॅंट पोर्टल में जमा करना चाहिए)
**SCHEDULE**

<table>
<thead>
<tr>
<th>Name of Organization</th>
<th>Indian Institute of Technology Delhi</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tender Type</strong></td>
<td>Open</td>
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<tr>
<td><strong>Tender Category</strong> (Services/Goods/works)</td>
<td>Goods</td>
</tr>
<tr>
<td><strong>Type/Form of Contract</strong> (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)</td>
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<tr>
<td><strong>Product Category</strong> (Civil Works/Electrical Works/Fleet Management/ Computer Systems)</td>
<td>Optical system</td>
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<td><strong>Source of Fund</strong> (Institute/Project)</td>
<td>Budget Code: CEQPT / Project Code: RP03829</td>
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<tr>
<td><strong>Is Multi Currency Allowed</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Date of Issue/Publishing</strong></td>
<td>31/01/20 (15:00 Hrs)</td>
</tr>
<tr>
<td><strong>Document Download/Sale Start Date</strong></td>
<td>31/01/20 (15:00 Hrs)</td>
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<tr>
<td><strong>Document Download/Sale End Date</strong></td>
<td>21/02/20 (15:00 Hrs)</td>
</tr>
<tr>
<td><strong>Date for Pre-Bid Conference</strong></td>
<td>---</td>
</tr>
<tr>
<td><strong>Venue of Pre-Bid Conference</strong></td>
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<tr>
<td><strong>Last Date and Time for Uploading of Bids</strong></td>
<td>21/02/20 (15:00 Hrs)</td>
</tr>
<tr>
<td><strong>Date and Time of Opening of Technical Bids</strong></td>
<td>24/02/20 (15:00 Hrs)</td>
</tr>
<tr>
<td><strong>Tender Fee</strong></td>
<td>Rs.<strong>NIL</strong>______/- (For Tender Fee)</td>
</tr>
<tr>
<td><strong>EMD</strong></td>
<td>Rs.<strong>NIL</strong>______/- (For EMD)</td>
</tr>
<tr>
<td></td>
<td>(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 online quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II) No. of Covers (1/2/3/4)</td>
</tr>
<tr>
<td><strong>Bid Validity days (180/120/90/60/30)</strong></td>
<td>120 days (From last date of opening of tender)</td>
</tr>
<tr>
<td><strong>Address for Communication</strong></td>
<td>Prof. Sunil Kumar</td>
</tr>
<tr>
<td><strong>Contact No.</strong></td>
<td>+91-11-26591515</td>
</tr>
<tr>
<td><strong>Email Address</strong></td>
<td><a href="mailto:kumarsunil@physics.iitd.ac.in">kumarsunil@physics.iitd.ac.in</a></td>
</tr>
</tbody>
</table>

**Chairman Purchase Committee**  
(Buyer Member)
Instructions for Online Bid Submission/ ऑनलाइन बोली (बिड) के लिए निर्देश:
As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL: http://eprocure.gov.in/eprocure/app). 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: http://eprocure.gov.in/eprocure/app) 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 user ID / password and the password of the DSC / eToken.

बोलीदाता फिर अपने यूजर आईडी / पासवर्ड और डीएससी / ईटीकें के पासवर्ड को दर्ज करके सुरक्षित लॉग-इन के माध्यम से साइट पर लॉग ऑन करता है।

SEARCHING FOR TENDER DOCUMENTS/ निविदा दस्तावेजों के लिए खोजना

1) 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 / बोली (बिड) की तैयारी

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/
बोली (बिड) का जमा करना
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 colored (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.

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 / बोलीदाताओं को सहायता

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 / बोलीदाताओं के लिए सामान्य निर्देश

1) The tenders will be received online through portal [http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app). 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/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through [https://eprocure.gov.in/eprocure/app](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.

निविदाकर्ता को सलाह दी जाती है कि वे निविदाकर को निर्देश दिए गए हैं ताकि ई-प्रोक्युरमेंट के लिए सेंट्रल पब्लिक प्रोकॉर्मेंट पोर्टल के जरिए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सकें।
NOTICE INVITING QUOTATIONS

Subject: Purchase of Optical/NIR/IR spectrophotometer for absorption and emission

Invitation for Tender Offers

Indian Institute of Technology Delhi invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for supply, installation & integration of Optical/NIR/IR spectrophotometer for absorption and emission with (warranty period as stated at page #1 of this tender) on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal http://eprocure.gov.in/eprocure/app

TECHNICAL SPECIFICATION:

<table>
<thead>
<tr>
<th>SNo.</th>
<th>Equipment:</th>
<th>Optical/NIR/IR spectrophotometer for absorption and emission, Qty.: 1</th>
</tr>
</thead>
</table>

General specifications:

1. The equipment system has two parts, part A and part B. Technical and financial comparisons will be made for part A and part B, separately.
2. Part A is the equipment for time-resolved measurements with measurable life-time from ~100 ps to ~10 micro-seconds.
3. Part B is the equipment for carrying out steady state measurements as well as phosphorescence life time measurements in time scale of ~10 micro-seconds to few seconds.
4. Each equipment should be provided with sturdy table support having honeycomb top for mounting optomechanics and placing all attached accessories. For loading of optical cryostat into the spectrometer sample chamber, appropriate loading mechanism should be provided.
5. Appropriate uninterrupted power supply transformer based should be supplied for each part, A and B. Minimum 10 kVA single phase and 30 minutes back up on full load. This item should be quoted in INR from OEM authorized company/vender in India. This is part of the main equipment and hence will be included in the comparisons for part A and part B.
6. All necessary tools should be supplied by vender for installation.
7. System installation at site, demonstration, personnel training to be included.
8. Comprehensive warranty period of 3 years to be included covering all parts.
9. One annual visit for running a short term certification course for about three days to be included.
10. Minimum downtime of the equipment: visit by trained personnel/ service engineer within 7 days from time of report.
11. User’s manual for installation, use and service of all parts/components/software should be provided.
12. Bidders quoting for part A only should quote for the optional items 2-6 also.
13. Prices must be offered in Ex-works as well as CIP New Delhi basis.
14. Quotation validity should be more than 120 days.
### Part A: Equipment for Time Resolved Studies

#### A.1 Pulsed diode laser sources for excitation
- Wavelengths: 375±10 nm, 440±10 nm, 530±10 nm, 630±10 nm, 780±10 nm, 980±10 nm, 1270±50 nm,
- Pulse duration: <100 ps for visible and <200 ps for NIR
- Sync: all to be in sync with the TCSPC (time correlated single photon counter), other detectors and monochromators
- Average power: ~2 mW
- Variable repetition rate: from <100 kHz to >10 MHz
- Power supply and cooling: integrated power supply and necessary cooling to be included if required
- Control and electronic driver: either integrated or separate unit computer controlled to be provided

#### A.2 Pulsed LED sources for excitation
- Wavelengths: 250±10 nm, 280±10 nm, 325±10 nm, 340±10 nm and 375±10 nm
- Fastest response time: <1ns
- Sync: in sync with the TCSPC, other fast detectors and monochromators
- Average power: ~2 micro-Watts
- Variable repetition rate: from < 100 kHz to > 10 MHz
- Power supply and cooling: integrated power supply and Peltier cooler to be provided, if applicable
- Control and electronics driver: either integrated or separate unit computer controlled to be provided, if applicable

#### A.3 Emission Monochromator
- Spectral resolution better than 0.5 nm
- Gratings: appropriate gratings to cover from <200 nm to >1700 nm.
- Slit: continuously variable from minimum 5 micron to 2 mm width, computer controlled
- Calibration and computer control: all parts pre-calibrated and computer controlled
- Replaceable and suitable filters for automatic cleaning of higher orders from gratings
- Long pass filters with mounting accessories for ready to use: cutoff wavelengths 5-10 nm larger than the diode laser and LED source wavelengths mentioned above. These will be placed just after the sample and before the emission spectrometer to avoid scattering etc.
- Neutral density filters: should be provided in two sets of OD 0.2, 0.5, 1, 2 and 3, suitable for 200-2000 nm range and with appropriate multislot filter mount in the excitation path for controlling light intensity just before the sample

#### A.4 Optical polarizers
- Set of polarizers with proper mounts in the excitation and detection path for anisotropic measurements in the UV-VIS-NIR range (~200-2000 nm)
- Automated with computer control

#### A.5 UV-visible-NIR TCSPC detector:
- Detection range: from 200 nm to ~860 nm
- Response time: better than 200 ps
- Time scan range: from ~0-1 micro-secs or more and user selectable
- Dark count: better than 200 cps
- Dynamic range: 10^4 or higher
- Mounting: suitably mounted on the spectrometer housing, appropriate mounting accessories, adapters to be supplied
- Power supply and control: integrated power supply with Peltier cooling and computer controlled
A.6 NIR high speed detector:
- Detection range: ~900 nm (or closest) to 1700 nm (or higher)
- Response time: < 1 ns
- Dynamic range: $10^4$ or higher
- Mounting: suitably mounted on the spectrometer housing, appropriate mounting accessories, adapters to be supplied
- Power supply and cooling: integrated power supply with necessary cooling either Peltier or liquid nitrogen (Peltier cooling preferred)

A.7 Sample holders
- Interchangeable sample holders in the sample chamber to be provided
- Appropriate holders for low temperature to high temperature measurements to be provided
- Appropriate holders for mounting thin solid samples, thin films and liquids to be included
- OEM authorized fused quartz cuvettes: 20 units of 1 mm path length, 20 units of 2 mm path length, 20 units of 5 mm path length and 50 units of 10 mm path length to be provided with proper mounts
- OEM authorized front face cuvette for solid samples: 5 units to be provided
- Sample holder compatible with optical cryostat mounting and appropriate for reflection and transmission

A.8 Sample chamber
- Spacious enough for making optical measurements in reflection and transmission measurements
- Accommodative for close cycle cryostat for low temperature measurements
- Sample jacket should also be Peltier equipped for Temperature dependent measurements with temperature range of -20 to +105 °C or closest

A.9 Software and control
- Complete software for system control, data acquisition and data analysis should be provided
- Should include exponential tail fitting option
- Should include deconvolution option
- Should include up to 4 exponential fitting option
- Complete software should be provided in a flash drive, with procedures for installation and use should be described in user manuals
- Suitable computer with latest Windows operating systems should be provided for complete control, data acquisition and data analysis

A.10 Digital Power meter with sensor heads
- To be suitable for energy and power measurement for all the laser and LED sources mentioned in 1 from 200 nm ~3000 nm
- Interface: programmable, with data logger and interface with computer
- Suitable for CW and pulsed output measurement
- Measurement range: <0.1 nJ to >1 mJ at 1 kHz
- Accessories: to be supplied with necessary power supply, cable, data cables, etc.
### Part B: Equipment for Steady state fluorescence and phosphorescence life time measurements

#### B.1 Xenon lamp Source
- **Power:** ~450 W
- **Wavelength range:** 200-2000 nm
- **Spare Lamps:** 2 lamps as spare should be provided anytime within the warranty period when required
- **Lifetime of each lamp:** ~2000 hrs

#### B.2 Micro-second flash lamp
- **Suitability:** suitable for phosphorescence measurement in time range of about one micro-second to larger than a second
- **Power:** ~60 W for flash lamp
- **Spare Lamps:** 2 lamps as spare should be provided anytime within the warranty period when required
- **Lifetime of each lamp:** larger than a million shots
- **Wavelength range:** 200-850 nm or longer
- **Variable Rep rate:** 0.1 Hz to >100 kHz
- **Sync:** in sync with detectors and monochromator for phosphorescence measurements

#### B.3 Excitation Monochromator
- **Type:** double monochromator
- **Focal length of double monochromator:** 500 mm or more
- **Gratings:** 3 gratings on a turret in each monochromator
- **Gratings blaze wavelength (nm) / groves density (lines/mm):** 300/1800, 500/1200, 1200/600 OR closest
- **Slit:** continuously variable from minimum 5 micron to 2 mm
- **Calibration and computer control:** all parts precalibrated and computer controlled
- **Suitable filters set on a computer controlled/automated wheel for blocking higher orders of the gratings in the spectrometer

#### B.4 Optical filters short pass and long pass
- **Set of filters on mount to be placed between the sample holder and the excitation/emission spectrometer, details below**
- **Short pass filters with mounts for ready to use:** cutoff wavelengths closest to 240 nm, 270 nm, 310 nm, 330 nm, 360 nm, 430 nm, 520 nm, 620 nm, 765 nm, 970 nm, 1040 nm, 1240 nm
- **Long pass filters with mounts for ready to use:** cutoff wavelengths closest to 260 nm, 290 nm, 330 nm, 345 nm, 380 nm, 450 nm, 535 nm, 640 nm, 785 nm, 990 nm, 1070 nm, 1260 nm

#### B.5 Optical polarizers
- **Set of polarizers with proper mounts in the excitation and detection path for anisotropic measurements in the UV-VIS-NIR ~200-2000 nm range**
- **Automated with computer control

#### B.6 Emission Monochromator
- **Type:** double monochromator
- **Focal length of double monochromator:** ~ 500 mm or more
- **Gratings:** 3 gratings on a turret in each monochromator
- **Gratings blaze wavelength (nm) / groves density (lines/mm): 500/1200, 1000/1200, 1800/600 OR closest and suitable for measurement in the range ~200-3000 nm with high resolution
- **Slit:** continuously variable from minimum 5 micron to 2 mm
- **Calibration and computer control:** all parts precalibrated and computer controlled
- **Suitable filters set on a computer controlled/automated wheel for blocking higher orders of the gratings in the spectrometer
**B.7 UV-visible-NIR detector:**
- Detection range from <220 nm to >870 nm
- Response time: should be suitable for steady state and micro-second to a second life time measurement
- Dark count: 200 cps or less
- Dynamic range: 10^4 or better
- All detector types should be suitably mounted on the spectrometer housing, appropriate mounting accessories, adapters to be supplied,
- Power supply, cooling and control control: all to be included

**B.8 NIR-IR detector:**
- Detection range: ~900 to 3000 nm
- Multiple detectors: OK, one or more detectors can be provided to cover the complete spectral range, all mounted in the spectrometer housing for the detector slot
- Gain: adjustable if provided with gain control
- Mounting: suitably mounted on the spectrometer housing, appropriate mounting accessories, adapters to be supplied
- Power supply, cooling and control: integrated or separate power supply with necessary cooling mechanism to be included

**B.9 Close cycle helium optical cryostat for low-T measurements**
- Appropriate for the spectrophotometer and to be accommodated inside the sample chamber, lifting mechanism should be provided for moving and to place in and take out from the sample chamber
- Temperature range: T_{min} ~10 K, T_{max} ~300 K or higher
- Cooling: direct cooling of the sample holder
- Optical windows from all 4 sides, provided with blanks for same size, o-rings and other necessary accessories to be included
- Optical windows transparent for the entire wavelength range of 200 nm to 2 micron, 4 mounted and 4 as spare windows should be included
- Temperature control: computer controlled unit to be included
- Compressor and transfer tubes: compressed helium prefilled and transfer tubes of ~5 meter length
- Helium gas refilling: refilling kit with all necessary parts for refilling of helium gas from a cylinder to be provided
- Vacuum pump: necessary oil free vacuum pump with two gauges, bellow pipes, connectors, valves, O-rings, vacuum grease and all other necessary accessories to be included
- Sample holder: proper sample holders for reflection and transmission to be included, transmission holder with a 5 mm hole at the centre and mounting a 100 micron thin film sample using screws and a support plate

**B.10 Sample holders**
- Interchangeable sample holders in the sample chamber to be provided
- Appropriate holders for low temperature to high temperature measurements to be provided
- Appropriate holders for mounting thin solid samples, thin films and liquids to be included
- OEM authorized fused quartz cuvettes: 20 units of 1 mm path length, 20 units of 2 mm path length, 20 units of 5 mm path length and 50 units of 10 mm path length to be provided with proper mounts
- OEM authorized front face cuvette for solid samples: 5 units to be provided
- Sample holder compatible with optical cryostat mounting and appropriate for reflection and transmission

**B.11 Sample chamber**
- Spacious enough for making optical measurements in reflection and transmission measurements
- Accommodative for close cycle cryostat for low temperature measurements
- Sample jacket should also be Peltier equipped for Temperature dependent measurements with temperature range of -20 to +105 °C or closest

<table>
<thead>
<tr>
<th>B.12 Reflection measurements</th>
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<tbody>
<tr>
<td>- Proper integrating sphere accommodative within the sample chamber to be provided with all necessary accessories</td>
</tr>
<tr>
<td>- Proper for absolute quantum yield and reflectance measurements for ~200-2000 nm or higher</td>
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<tr>
<td>- Compatible with sample holders for room temperature measurements</td>
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<tr>
<td>- Measurement mode to be included in the software</td>
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<table>
<thead>
<tr>
<th>B.13 Absorption through transmission measurements</th>
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<tbody>
<tr>
<td>- Provision for independent measurement in the sample chamber to be included</td>
</tr>
<tr>
<td>- Detectors: one or more suitable for spectral range ~200-3000 nm or closest</td>
</tr>
<tr>
<td>- Detector assembly mounted in the spectrometer housing, necessary adapter and other accessories to be included for mounting</td>
</tr>
<tr>
<td>- To be supplied with all necessary accessories, power supply, cables, control, triggering, etc.</td>
</tr>
<tr>
<td>- Measurement mode to be included in the software or provided separately</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B.14 Software and control</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Complete software for system control, data acquisition and data analysis should be provided</td>
</tr>
<tr>
<td>- Should include exponential tail fitting option</td>
</tr>
<tr>
<td>- Should include deconvolution option</td>
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<tr>
<td>- Should include upto 4 exponential fitting option</td>
</tr>
<tr>
<td>- Complete software should be provided in a flash drive, with procedures for installation and use should be described in user manuals</td>
</tr>
<tr>
<td>- Suitable computer with latest Windows operating systems should be provided for complete control, data acquisition and data analysis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SNo.</th>
<th>List of optional items</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><strong>UV Pulsed laser source for excitation</strong></td>
</tr>
<tr>
<td></td>
<td>- Type: DPSS type, compact and fittable into slot for diode laser sources in the spectrophotometer housing</td>
</tr>
<tr>
<td></td>
<td>- Wavelength: ~266 nm</td>
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<tr>
<td></td>
<td>- Pulse duration: ~1-2 ns or better</td>
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<tr>
<td></td>
<td>- Sync : in sync with the TCSPC, other fast detectors and the monochromators</td>
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<tr>
<td></td>
<td>- Pulse energy: 1 micro-Joules or higher at 10 kHz</td>
</tr>
<tr>
<td></td>
<td>- Variable repetition rate: from ~10 kHz to ~1 MHz OR closest</td>
</tr>
<tr>
<td></td>
<td>- Power supply and cooling: integrated power supply and Peltier cooler</td>
</tr>
<tr>
<td></td>
<td>- Control and electronic driver: either integrated or separate unit computer controlled</td>
</tr>
</tbody>
</table>

| 3    | **Warranty beyond 3 years** |
|      | Comprehensive warranty for additional 2 years to be quoted |
### Close cycle helium optical cryostat for time-resolved spectrometer (part A)
- Appropriate for the spectrophotometer and to be accommodated inside the sample chamber, lifting mechanism should be provided for moving and to place in and take out from the sample chamber.
- Temperature range: \( T_{\text{min}} \approx 10 \text{ K}, T_{\text{max}} \approx 300 \text{ K} \) or higher.
- Cooling: direct cooling of the sample holder.
- Optical windows from all 4 sides, provided with blanks for same size, o-rings and other necessary accessories.
- Optical windows transparent for the entire wavelength range of 200 nm to 10 micron, 4 mounted and 4 as spare windows should be included.
- Temperature control: computer controlled unit to be included.
- Compressor and transfer tubes: compressed helium prefilled and transfer tubes of \( \approx 5 \) meter length.
- Helium gas refilling: refilling kit with all necessary parts for refilling of helium gas from a cylinder to be provided.
- Vacuum pump: necessary oil free vacuum pump with two gauges, bellow pipes, connectors, valves, O-rings, vacuum grease and all other necessary accessories to be included.
- Sample holder: proper sample holders for reflection and transmission to be included, transmission holder with a 5 mm hole at the centre and mounting a 100 micron thin film sample using screws and a support plate.

### Optical cryostat for T-dependent measurements for part A
- Should be appropriate for the spectrophotometer and accommodated inside the sample chamber, lifting mechanism should be provided for easy moving and to place in and take out from the sample chamber.
- Temperature range: \( T_{\text{min}} \approx 77 \text{ K} \) to \( T_{\text{max}} \approx 400 \text{ K} \) or higher.
- Cooling: direct cooling of the sample holder.
- Optical windows from all 4 sides, provided with blanks for same size, o-rings and other necessary accessories to be included.
- Optical windows transparent for the entire wavelength range of 200 nm to 2 micron or higher, 4 mounted and 4 as spare windows should be included.
- Temperature control: computer controlled unit and USB or other suitable computer interface.
- Type: liquid nitrogen based and should be provided with 15-20 ltr. vessel.
- Vacuum pump: appropriate oil free vacuum pump provided with two gauges, bellow pipes, connectors, valves, O-rings, vacuum grease and all other necessary accessories to be included.
- Sample holder: proper sample holder to be provided for reflection and transmission measurements, transmission holder with a 10 mm hole at the centre and mounting a 100 micron thin film sample using screws and a support plate.

### List of spare parts
- Provide list and price of parts which are required to be changed/serviced in timely manner.

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Due date</strong>: 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.</td>
</tr>
</tbody>
</table>
| 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 bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BoQ_XXXX. The Technical bid and the financial bid should be submitted Online.  
*Note*: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as ‘Optional’ in the specs is not to be included for overall comparison. |
| 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 1 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. |
| 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 #1 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. **Delivery and Documents:**
    Delivery of the goods should be made within a maximum of 14 to 20 weeks (for goods ready for shipment) & Maximum (To be filled by Purchaser) weeks (For special/to be fabricated goods) from the date of 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 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/FCA origin Airport 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. At any circumstances, it is the responsibility of the foreign supplier to handover the material to our forwarder at the origin airport after completing all the inland clearing. No Ex- Works consignment will be entertained.

“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 penalty/demurrage charges (imposed by Indian Customs). Otherwise these charges will be recovered from the supplier/Indian Agent.”

Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as ‘Optional’ in the specs is not to be included for overall comparison.

15. Notices: For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.

Purchaser: Prof. Sunil Kumar,
Department of Physics
Indian Institute of Technology
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 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).

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 week 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 Director, Indian Institute of Technology (IIT) Delhi 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

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 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.
   (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.

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. **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, GST etc, in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.
For research purpose(s) ONLY, 5% GST will be applicable with concessional GST Certificate.

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 shipment in the name of the Institute, (no certificate will be issued to third party): The procured product should be used for teaching, scientific and research work only.

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 partially exempted from paying GST and necessary GST 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) Cash Against Documents (CAD)/Against delivery/after satisfactory installation by T.T. 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 DGSS&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**

(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.
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:
   
   i. 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
   
   ii. In the event of termination of production of the spare parts:
   
   iii. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
   
   iv. 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 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:

   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.

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<tbody>
<tr>
<td>41.</td>
<td><strong>Shifting</strong>: 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).</td>
</tr>
<tr>
<td>42.</td>
<td><strong>Downtime</strong>: 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.</td>
</tr>
<tr>
<td>43.</td>
<td><strong>Training of Personnel</strong>: 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.</td>
</tr>
<tr>
<td>44.</td>
<td><strong>Disputes and Jurisdiction</strong>: 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.</td>
</tr>
<tr>
<td>45.</td>
<td><strong>Compliancy certificate</strong>: This certificate must be provided indicating conformity to the technical specifications. (Annexure-I)</td>
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## ANNEXURE-I

**COMPLIANCE SHEET**

### TECHNICAL SPECIFICATION

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<thead>
<tr>
<th>Sl. No.</th>
<th>Technical Specifications</th>
<th>Compliance Y/N</th>
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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. : _______________________


ANNEXURE-II

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.

<table>
<thead>
<tr>
<th>We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.</th>
<th>NAME &amp; ADDRESS OF THE Vendor/ Manufacturer / Agent</th>
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<tbody>
<tr>
<td>1 Phone</td>
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<td>2 Fax</td>
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<td>3 E-mail</td>
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<tr>
<td>4 Contact Person Name</td>
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<td>5 Mobile Number</td>
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<td>6 GST Number</td>
<td></td>
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<tr>
<td>7 PAN Number</td>
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<tr>
<td>(In case of on-line payment of Tender Fees)</td>
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<tr>
<td>8 UTR No. (For Tender Fee)</td>
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<tr>
<td>(In case of on-line payment of EMD)</td>
<td></td>
</tr>
<tr>
<td>9 UTR No. (For EMD)</td>
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<tr>
<td>10 Kindly provide bank details of the bidder in the following format: a) Name of the Bank</td>
<td></td>
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<tr>
<td>b) Account Number</td>
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<tr>
<td>c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder</td>
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(Signature of the Tenderer)

Name:

Seal of the Company
Annexure-III

List of Govt. Organization/Deptt.

<table>
<thead>
<tr>
<th>Name of the organization</th>
<th>Name of Contact Person</th>
<th>Contact No.</th>
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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.

<table>
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<tr>
<th>Name of the organization</th>
<th>Name of Contact Person</th>
<th>Contact No.</th>
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Signature of Bidder

Name: _________________________

Designation: ___________________

Organization Name: ___________________

Contact No.: ___________________
# PREVIOUS SUPPLY ORDER DETAILS

## Annexure - IV

<table>
<thead>
<tr>
<th>Name of the Firm</th>
<th>Order placed by (Full address of Purchaser)</th>
<th>Order No. and Date</th>
<th>Description and quantity of order equipment</th>
<th>Value of order</th>
<th>Date of Completion of delivery as per contract</th>
<th>Has the equipment been installed satisfactorily (Attach a Certificate from the Purchaser/Consignee)</th>
<th>Contact person along with Telephone No., Fax No. and email address</th>
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Signature and Seal of the Manufacturer/ Bidder

__________________________________

Place: ____________________________

Date: ____________________________
ORIGINAL EQUIPMENT MANUFACTURER (OEM)
Manufacturing authorisation form (MAF)
(On Letter Head of Manufacturer)

ANNEXURE-V (Revised)

Tender No. :- …………………………… Date:- …………

To
The Director,
Indian Institute of Technology Delhi,
New Delhi- 110016

Dear Sir,

We manufacture of original equipment at (…………………………..address of factory…………………………..) do hereby authorize M/s (Name and address of Agent) to submit a bid, negotiate and receive the order format against your tender enquiry.

M/s. ………………………………… is authorized to bid and conclude the contract in regard to this business.

We hereby extend our full guarantee and warranty as per clause ………………………… of the terms and conditions NIQ for the goods and services offered by the above firm.

Yours Faithfully,

(Name)

(Name & Seal of Manufacturers)

Note:

1. **Items of indigenous nature or quoted in INR**, more than 1 authorized representative may participate in the same tender and submit their bids on behalf of their OEM/Principal/Manufacturer if the OEM permits more than one authorized bidder in such a case as per their policy.

2. **In cases of agents quoting in offshore procurements**, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. **One manufacturer can only authorize one agent/dealer**

3. The letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. The same should be included by the bidder in its techno-commercial unpriced bid.
Bid Submission

Online Bid Submission:

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Document</th>
<th>Content</th>
<th>File Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Technical Bid</td>
<td>Compliance Sheet as per Annexure - I</td>
<td>.PDF</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>Organization Declaration Sheet as per Annexure - II</td>
<td>.PDF</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)</td>
<td>.PDF</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>Technical supporting documents in support of all claims made at Annexure-I (Annexure-IV)</td>
<td>.PDF</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td>PREVIOUS SUPPLY ORDER as per Annexure - IV</td>
<td>.PDF</td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td>ORIGINAL EQUIPMENT MANUFACTURING (OEM) MANUFACTURING AUTHORISATION FORM as per Annexure - V</td>
<td>.PDF</td>
</tr>
</tbody>
</table>

Envelope – 2

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Document</th>
<th>Content</th>
<th>File Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Financial Bid</td>
<td>Price bid should be submitted in given BOQ_XXXX.xls format. (Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as ‘Optional’ in the specs is not to be included for overall comparison.) Bids for optional items are to be submitted in ‘sheet2_Quote for optional items’</td>
<td>.XLS</td>
</tr>
</tbody>
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