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**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply, installation and commissioning of a high power blue diode laser system with accessories</td>
<td>NIL. However, bidders are required to submit ‘Bid Security Undertaking’ in lieu of EMD (Annexure-IX)</td>
</tr>
<tr>
<td>Warranty</td>
<td>Minimum 1 Year/1 साल</td>
</tr>
<tr>
<td>Performance security</td>
<td>3% of Contract value</td>
</tr>
<tr>
<td>Delivery Schedule</td>
<td>06th March 2023 Pl.refer Terms &amp; Conditions No.12</td>
</tr>
</tbody>
</table>

Tender Documents may be downloaded from Central Public Procurement Portal [http://eprocure.gov.in/eprocure/app](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](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’.

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).
<table>
<thead>
<tr>
<th><strong>SCHEDULE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name of Organization</strong></td>
</tr>
<tr>
<td><strong>Tender Type</strong> (Open/Limited/EOI/Auction/Single/Global)</td>
</tr>
<tr>
<td><strong>Tender Category (Services/Goods/works)</strong></td>
</tr>
<tr>
<td><strong>Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)</strong></td>
</tr>
<tr>
<td><strong>Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)</strong></td>
</tr>
<tr>
<td><strong>Source of Fund (Institute/Project)</strong></td>
</tr>
<tr>
<td><strong>Is Multi Currency Allowed</strong></td>
</tr>
<tr>
<td><strong>Date of Issue/Publishing</strong></td>
</tr>
<tr>
<td><strong>Document Download/Sale Start Date</strong></td>
</tr>
<tr>
<td><strong>Document Download/Sale End Date</strong></td>
</tr>
<tr>
<td><strong>Date for Pre-Bid Conference</strong></td>
</tr>
<tr>
<td><strong>Venue of Pre-Bid Conference</strong></td>
</tr>
<tr>
<td><strong>Last Date and Time for Uploading of Bids</strong></td>
</tr>
<tr>
<td><strong>Date and Time of Opening of Technical Bids</strong></td>
</tr>
<tr>
<td><strong>Tender Fee</strong></td>
</tr>
<tr>
<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)</td>
</tr>
<tr>
<td><strong>No. of Covers (1/2/3/4)</strong></td>
</tr>
<tr>
<td><strong>Bid Validity days (180/120/90/60/30)</strong></td>
</tr>
<tr>
<td><strong>Address for Communication</strong></td>
</tr>
<tr>
<td><strong>Contact No.</strong></td>
</tr>
<tr>
<td><strong>Email Address</strong></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.

ब्याप्त विभाग के निर्देशों के अनुसार, यह निविदा दस्तावेज केंद्रीय सार्वजनिक प्राप्ति पोर्टल (यूआरएल: http://eprocure.gov.in/eprocure/app) पर प्रकाशित किया गया है। बोलीदाताओं को मान्य डिजिटल हस्ताक्षर प्राप्ति पत्र का उपयोग करते हुए सीपीपी पोर्टल पर इलेक्ट्रॉनिक रूप से अपनी बोलियां की सॉफ्ट प्रदत्तां जमा करना आवश्यक है। सीपीपी पोर्टल पर पंजीकरण करने के लिए निविदादाताओं की सहायता करने के लिए नीचे दिए गए निर्देशों का मतलब है, सीपीपी पोर्टल पर आवश्यकताओं के अनुसार अपनी बोलियां तैयार करें और अपनी बोलियां ऑनलाइन जमा करें।

More information useful for submitting online bids on the CPP Portal may be obtained at:
अधिक जानकारी सीपीपी पोर्टल पर ऑनलाइन बोलियां जमा करने के लिए उपयोगी हो सकती है:
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.

बोलीदाताओं को "नामांकन के लिए वहाँ जाने वाले" लिंक पर क्लिक करके सेंट्रल पब्लिक प्रूक्यासेंट पोर्टल (यूआरएल: http://eprocure.gov.in/eprocure/app) के ई-प्रूक्यासेंट मॉड्यूल पर भर्ती करना आवश्यक है। सीपीपी पोर्टल पर नामांकन नि: शुक्ल है।

2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

नामांकन प्रक्रिया के भाग के रूप में, बोलीदाताओं को अपने खाते के लिए एक अद्वितीय उपयोगकर्ता नाम चुनना होगा और एक पासवर्ड प्रदान करना होगा।

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.

बोलीदाताओं को सलाह दी जाती है कि पंजीकरण प्रक्रिया के भाग के रूप में अपना वैध मेल पता और मोबाइल नंबर पंजीकृत करें। इन का उपयोग सीपीपी पोर्टल से किसी भी संचार के लिए किया जा सकता है।

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.

नामांकन पर, बोलीदाताओं को सीसीएए इंडिया द्वारा मान्यता प्राप्त किसी प्रामाण्य पंजीकरण द्वारा जारी किए गए अपने मान्य डिजिटल हस्ताक्षर प्रमाण पत्र (कक्ष II या कक्ष III प्रमाण पत्र के साथ महत्वपूर्ण उपयोग पर हस्ताक्षर करने) की आवश्यकता होगी (जैसे सिफी / टीसीएए / एनकोड / ई-मुद्रा आदि), उनके प्रोफाइल के साथ

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.

केवल एक मान्य डीएससीए में से कोई एक बोलीदाता द्वारा पंजीकृत होना चाहिए। कृपया ध्यान दें कि निविदादाताओं यह सुनिश्चित करने के लिए जिम्मेदार हैं कि वे अपने डीएससीए को दूसरों को उधार नहीं देते हैं जिससे दुरुपयोग हो सकता है।
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.

**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 (विड) 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.

बोलीदाता को बोली प्रारूप के लिए अच्छी तरह से साइट पर लॉग इन दे तैयारियों के भाग के रूप में जमा करने के लिए आवश्यक है, ऐसे मानक दस्तावेज अपलोड करने का प्रावधान (जैसे भूमिकाएं, वार्षिक रिपोर्ट, लेखा पत्रिकाओं) को दिनांकित किया गया है। ऐसे दस्तावेजों को अपलोड करने के लिए बोलीदाताओं उनके लिए उपलब्ध “मेरा स्पेस” क्षेत्र का उपयोग कर सकते हैं। बोली जमा करते समय ये दस्तावेज सीधे "मेरा स्पेस" क्षेत्र से जमा किए जा सकते हैं, और उन्हें बार-बार अपलोड करने की ज़रूरत नहीं है इससे बोली जमा प्रक्रिया के लिए आवश्यक समय में कमी आएगी।

2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

बोलीदाता को निविदा दस्तावेज में दर्शाए अनुसार एक-एक करके आवश्यक बोली दस्तावेजों को डिजिटल हस्ताक्षर और अपलोड करना होगा।

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).

बोलीदाता को निविदा शुल्क / ईएमडी को भुगतान के लिए "ऑन लाइन" के रूप में भुगतान विकल्प चुनना होगा और उपकरण का विवरण दर्ज करना होगा। जब भी, ईएमडी / निविदा शुल्क की मांग की जाती है, बोलीदाताओं को टेंडर शुल्क और ईएमडी अलग-अलग अर्थशास्त्रीय नोटेज के माध्यम से ऑन लाइन पर भुगतान करने की आवश्यकता होती है (अनुसूची, पेज नं. 2 देखें)।

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.

एक मानक BoQ प्रारूप को सभी बोलीदाताओं द्वारा भरने के लिए निविदा दस्तावेज प्रदान किया गया है। बोलीदाताओं को इस बात का ध्यान रखना चाहिए कि उन्हें आवश्यक प्रारूप में अपनी वित्तीय बोली जमा करनी चाहिए और कोई अंत: प्रारूप स्वीकार्य नहीं है। बोलीकर्ताओं को BoQ फाइल को डाउनलोड करने, इसे खोलने और अपने संबंधित वित्तीय उद्देश्य और अंत: विवरण (जैसे बोलीदाता का नाम) के साथ संदर्भित रंगीन (असुरक्षित) कोशिकाओं को पूरा करना आवश्यक है। कोई भी अंत: कार्य नहीं बदलता जाना चाहिए। एक बार विवरण पूरा हो जाने पर, बोलीदाताओं को इसे सहजता से भुगतान करना, जबकि ईएमडी अलग बदलती है। बिना फाइल का नाम बदलना।

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.
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. 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. 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”.

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. 

3) 

निविदाकर्ता को सलाह दी जाती है कि वे निविदाकर को निर्देश दिए गए हों ताकि ई-प्रोक्योरमेंट के लिए सेंट्रल पब्लिक प्रोकर्ममेंट पोर्टल के जरिए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सके।
Subject: Supply, installation and commissioning of a high power blue diode laser system with accessories

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 and commissioning of a high power blue diode laser system with accessories 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:

Item: Supply, installation and commissioning of a high power blue diode laser system with accessories

Scope of supply:

Item A: Blue laser source
  o Nominal Power: 650W and above
  o Wavelength: 400 nm - 500 nm
  o Beam parameter Product: < 45 mm mrad
  o Power adjustment: 10-100% or better
  o Stability: < 3% over 2 hrs or better
  o Fiber core: 400 microns or lower
  o Fiber length: 5 m or higher
  o Numerical aperture: 0.22 or nearest
  o Connector Type: QBH
  o External Control Inputs: digital 24 V (laser ready, laser on, etc.) analog power control 0-10 V, safety interlocks
  o Modulation : 0.5KHz
  o TTL Control (Pulse line) : +5V
  o Communications: RS 232, Ethernet

Item B: Welding and cladding head
  o Should sustain minimum 650 W Nominal Power
  o Integrated camera for focusing and positioning (incl. cross hair generator)
  o quick-change cover slide and cross jet
  o focused beam spot size 400 micron or better for welding and a minimum 1.0 mm or higher range for the cladding operation
  o 10 sets of optics consumables, if any
**Item C**: Compatible External chiller - 1 No

**Item D**: Compatible Laser goggles - 6 nos

**Item E**: Compatible Robot with controller, backup system - 1 nos
- Work envelope: 1 m x 1m or better
- Payload: As per the weight of the processing head(s) plus 5 Kgs for additional attachments
- Axis: 6
- Preferred Make: Kuka/ABB/FANUC
- R&R: ± 0.05mm or nearest

**Item F**: Compatible UPS for the whole setup with min 15 min backup - 1 nos
- Preferred Make of the UPS: Power one/ Microtek/ luminous
- Preferred Make of the Battery: Exide /Ameron
- Battery type: SMF type
- Necessary connectors to be provided

**Item G**: Compatible Fixture table for demonstrating welding and cladding - 1 nos
- Work envelope: 1.5 m (L) x 1.5m (W) x 0.6m (H) or better

**Item H**: Air Compressor with dryer and oil filter - 1 nos
- Preferred make: Atlas Copco, Elgi, Kirloskar
- Detailed specifications for the compressor are as follows
  - Manufacturing Standard: ISO9001, ISO14001, ISO1217
  - Sound level: Max. 67 dB (A) or less
  - Air Compressor Type: Oil Injected Screw
  - Capacity, Free Air Delivery: Minimum 50 cfm
  - Nominal Pressure: 7.5 bar
  - Minimum pressure: 6 bar
  - Maximum pressure: 10 bar
  - Voltage, Frequency: 400V, 50 Hz
  - Cooling Medium: Air Cooled
  - Air Dryer: Refrigerated Type: Integrated i.e. should be inbuilt with the Air Compressor
  - Single Complete Unit: Tank Mounted, 500 Litres
  - Motor Type: IP55 (TEFC), Insulation Class "F"
  - Bearings: Greased for Life
  - Air Dryer Pressure Dew Point (100% relative humidity at 20 Deg. C/ 68 Deg. F): 3 Deg. C / 37 Deg. F at maximum FAD
  - Down Stream Filter: For Removal of Oil Aerosol and Solid Particles
  - Oil Carry over (maximum): 0.0009 (mg/m³) or less
**Item I**: Warranty minimum – 1 year or higher  
  o Please quote warranty for 2\textsuperscript{nd} and 3\textsuperscript{rd} year as an optional item

**Item J**: Computer systems for laser operation, robot programming – 2 nos  
  o i7 processor, min 8 GB RAM, 512 GB SSD, 27-inch display, keyboard, mouse and UPS  
  o preferred Make: Dell/HP

Please note: Necessary consumables which are not explicitly mentioned above, are to be provided

**Technical compliance against each item listed above to be provided. Any deviation in the technical specifications for the quoted items from the desired specifications needs to be clearly mentioned using the technical specification comparison sheet**

**Scope of work at customer’s site:**

  o Loading/unloading, installation and commissioning of the complete system  
  o Complete integration and installation of robot, processing head, laser and accessories  
  o Demonstration of laser at various power levels  
  o Demonstration of power modulation  
  o Demonstration of copper welding (1 mm + 1 mm with lap configuration)  
  o Demonstration of cladding using metal powder: copper, SS316 (the customer will arrange a powder feeder)  
  o Training for minimum 2 days  
  o Online support as per requirements

**Quotation should include for:**

1. Price of the items mentioned above in the Scope of Supply  
2. Charges for executing all jobs mentioned above in the Scope of Work, including charges of visiting service engineers and their travel etc.,

Details of the make and models for each of the quoted items along with related technical brochures should be submitted along with the technical offer.

**Manufacturer requirement:**

1. The OEM/supplier must provide details of the organization (preferably academic/research institutes) in India (showing at least 3 Customers) where similar or higher power laser system has been supplied. If the product has not been supplied in India, details of the organization (preferably academic/research institutes) where OEM/ supplier has supplied similar or higher power laser systems may be provided.

**Validity of the offer**: At least 90 days from the quotation date.

**PAYMENT:**

  o In case of Indian purchase, 100% payment after successful installation and commissioning of the system (FOR IIT Delhi price to be quoted)  
  o In case of non-INR purchase, 90% payment after despatch by LC and 10% after successful installation and commissioning ( ex-works price to be quoted)
**DELIVERY:** Installation and commissioning are to be completed by the first week of March 2023.

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>
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<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>
<tr>
<td>2.</td>
<td><strong>Preparation of Bids:</strong> 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. &lt;br&gt;<strong>Note:</strong> 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.</td>
</tr>
<tr>
<td>3.</td>
<td><strong>EMD (if applicable):</strong> 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.</td>
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<td>4.</td>
<td><strong>Refund of EMD:</strong> 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.</td>
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<td>5.</td>
<td><strong>Opening of the tender:</strong> 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.</td>
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<td>6.</td>
<td><strong>Acceptance/ Rejection of bids:</strong> The Committee reserves the right to reject any or all offers without assigning any reason.</td>
</tr>
<tr>
<td>7.</td>
<td><strong>Pre-qualification criteria:</strong>&lt;br&gt;(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.</td>
</tr>
<tr>
<td>8.</td>
<td><strong>Performance Security:</strong> The supplier shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank/ Foreign Bank (if local representative is not involved) 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.</td>
</tr>
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</table>
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:
   - Item Nomenclature
   - Order/Contract No.
   - Country of Origin of Goods
   - Supplier’s Name and Address
   - Consignee details
   - Packing list reference number

12. **Delivery and Documents:**
    Delivery of the goods should be made within a maximum of before 06th March 2023 (for goods ready for shipment) & Maximum (To be filled by Purchaser) weeks (For special/ to be fabricated goods). Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by email 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 (only 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 nominated forwarder at the origin airport after completing all the inland clearing.**

In case of CIF/CIP, shipment information must be provided at **least 2 days in advance** before the landing of 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), failing which, these charges will be recovered from the supplier/Indian Agent. To avoid the penalty/ demurrage charges due to late filing of Bill of Entry, it is advisable to handover the shipment to the Freight forwarder nominated by the Logistic Agent contracted by IITD.

*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.*

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### 15. Evaluation of Price/Financial Bid:

For the bids surviving the technical evaluation which have been found to be responsive the evaluation & comparison shall be made as under:

1. **If the response to the tender consists only of Indigenous Offers**

   (i) The final landing cost of purchase after all discounts, freight, forwarding, insurance, taxes etc. shall be the basis of evaluation.

   (ii) In the case of goods manufactured in India or goods of foreign origin already located in India, GST and excise duty (if applicable) and other similar taxes and duties, which will be contractually payable (to the tenderer) on the goods are to be added and will be considered in determination of evaluation criteria for L-1 in those cases where only Indian bidders are competing.

2. **If the response to the tender consists only of Imported Offers**

   (i) The FOB/FCA price shall be the basis of evaluation. **Please make sure that your Price Bid mentions FOB/FCA prices clearly and not just CIF/CIP prices directly OTHERWISE for the purpose of comparison such CIF/CIP price will be taken into account.**

   (ii) In cases where all the offers are from foreign suppliers, ranking will be assessed on FOB/FCA basis. In the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods, are to be added;

   (iii) All the foreign quotes will be brought to a common denomination in Indian Rupees by adopting the Selling exchange rate of the RBI/State Bank of India on the date of the opening of Price/financial Bids.

3. **If the response to the tender consists of Imported as well as Indigenous Offers**
The comparison between the indigenous and the foreign offers shall be made on the final landing cost of purchase taking into account, freight, forwarding, insurance, taxes etc. as specified in clause 1(i) and (ii) and for bids in foreign currency as per clause 2 (i), (ii) & (iii)

Further, adding advalorem/custom duty/countervailing duty (as applicable) at the rate of 9.34% on price quoted on FOB/FCA term including cost for safe Unloading and all other costs for all activities as per scope of work basis. IIT Delhi will submit Custom Duty Exemption Certificate under clause no.51/96.

(iii) iGST @ 18% of shipment value & Custom Duty

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

**Purchaser:** Prof. Abhishek Das,  
**Department of Mechanical Engineering**  
**Indian Institute of Technology**  
**Hauz Khas, New Delhi - 110016.**

**Supplier:** (To be filled in by the supplier)  
(All suppliers should submit its supplies information as per Annexure-II).

17. **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).

18. **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 reserves 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.

19. **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.

20. **Applicable Law**: The place of jurisdiction would be New Delhi (Delhi) INDIA.

21. **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.

22. **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.

23. **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.

24. **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 mishap/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.

25. **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/ExW basis, the purchaser shall arrange Insurance. If orders placed on CIF/CIP basis, the insurance should be up to IIT Delhi.

26. **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.

27. **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.

28. **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.

29. **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.

30. **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.

31. **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.

32. **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.  
| 33. **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.  
| 34. **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. 90% of the LC amount shall be released on presentation of complete and clear shipping documents and 10% 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.  
| (v) 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.  
| (vi) Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items.  
| (vii) All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.  
| 35. **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)  
| 36. **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.  
| (iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.  
| 37. **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)  
| 38. **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.

39. **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.

40. **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.

41. **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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<td>42.</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>
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<td>43.</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 within the business hours.</td>
</tr>
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<td>44.</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>
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<td>45.</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>
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<td>46.</td>
<td><strong>Compliancy certificate</strong>: This certificate must be provided indicating conformity to the technical specifications. (Annexure-I)</td>
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<td>47.</td>
<td><strong>As per Ministry of Finance, Deptt. of Expenditure, Public Procurement Division Order (Public Procurement No.1) issued from file No.6/18/2019-PPD dated 23rd July, 2020</strong> regarding Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017, it is directed that any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority i.e. the Deptt. for Promotion of Industry and Internal Trade (DPIIT). <em>The said order will not apply to bidders from those countries (even sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects (updated lists of the countries are given in the Ministry of External Affairs)</em>**</td>
</tr>
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“The bidder” (including the term ‘tenderer’, ‘consultant’ or ‘service provider’ in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participated in a procurement process.

“Bidders from a country which shares a land border with India” for the purpose of this Order means:

i. An entity incorporated, established or registered in such a country; or

ii. A subsidiary of an entity incorporated, established or registered in such a country; or

iii. An entity substantially controlled through entities incorporated, established or registered in such a country; or

iv. An entity whose *beneficial owner* is situated in such a country; or

v. An Indian (or other) agent of such an entity; or

vi. A natural person who is the citizen of such a country; or

vii. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

The *beneficial owner* for the purpose of above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercise control through other means.

Explanation-

a. “Controlling ownership interest” means ownership of or entitlement to more than twenty-five per cent of share or capital or profit of the company;
b. “Control” shall include the right to appoint majority of the directors or to control the management of policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

2. In case of a partnership firm, the beneficial owner is the natural person (s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person (s), who, whether acting alone or together, or through one or more juridical person, has ownership or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

An agent is a person employed to do any act for another, or to represent another in dealings with the third person.

For Works contracts, including Turnkey contracts, the successful bidder shall not be allowed to subcontract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

A certificate shall be submitted by bidders in the tender documents regarding their compliance with the said order. If the certificate submitted by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law. Annexure VI (For Goods/Services contracts)/Annexure VII (For Works contracts, including Turnkey contracts).
## TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Technical Specifications</th>
<th>Compliance Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item A</strong></td>
<td>Blue laser source</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o Nominal Power: 650W and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o Wavelength: 400 nm - 500 nm</td>
<td></td>
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<tr>
<td></td>
<td>o Beam parameter Product: &lt; 45 mm mrad</td>
<td></td>
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<tr>
<td></td>
<td>o Power adjustment: 10-100% or better</td>
<td></td>
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<tr>
<td></td>
<td>o Stability: &lt; 3% over 2 hrs or better</td>
<td></td>
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<tr>
<td></td>
<td>o Fiber core: 400 microns or lower</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o Fiber length: 5 m or higher</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o Numerical aperture: 0.22 or nearest</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o Connector Type: QBH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o External Control Inputs: digital 24 V (laser ready, laser on, etc.) analog power control 0-10 V, safety interlocks</td>
<td></td>
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<tr>
<td></td>
<td>o Modulation : 0.5KHz</td>
<td></td>
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<tr>
<td></td>
<td>o TTL Control (Pulse line) : +5V</td>
<td></td>
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<td></td>
<td>o Communications: RS 232, Ethernet</td>
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</tbody>
</table>

| **Item B** | Welding and cladding head | |
| | o Should sustain minimum 650 W Nominal Power | |
| | o Integrated camera for focusing and positioning (incl. cross hair generator) | |
| | o quick-change cover slide and cross jet | |
| | o focused beam spot size 400 micron or better for welding and a minimum 1.0 mm or higher range for the cladding operation | |
| | o 10 sets of optics consumables, if any | |

| **Item C** | Compatible External chiller - 1 No | |
| **Item D** | Compatible Laser goggles - 6 nos | |

| **Item E** | Compatible Robot with controller, backup system - 1 nos | |
| | o Work envelope: 1 m x 1m or better | |
| | o Payload: As per the weight of the processing head(s) plus 5 Kgs for additional attachments | |
| | o Axis: 6 | |
| | o Preferred Make: Kuka/ABB/FANUC | |
| | o R&R: ± 0.05mm or nearest | |

| **Item F** | Compatible UPS for the whole setup with min 15 min backup - 1 nos | |
| | o Preferred Make of the UPS: Power one/ Microtek/ luminous | |
| | o Preferred Make of the Battery: Exide /Ameron | |
| | o Battery type: SMF type | |
| **Item G** | Compatible Fixture table for demonstrating welding and cladding - 1 nos  
| | o Work envelope: 1.5 m (L) x 1.5m (W) x 0.6m (H) or better |
| **Item H** | Air Compressor with dryer and oil filter - 1 nos  
| | o Preferred make: Atlas Copco, Elgi, Kirloskar  
| | o Detailed specifications for the compressor are as follows  
| | o Manufacturing Standard | ISO9001, ISO14001, ISO1217  
| | o Sound level | Max. 67 dB (A) or less  
| | o Air Compressor Type | Oil Injected Screw  
| | o Capacity, Free Air Delivery | Minimum 50 cfm  
| | o Nominal Pressure | 7.5 bar  
| | o Minimum pressure | 6 bar  
| | o Maximum pressure | 10 bar  
| | o Voltage, Frequency | 400V, 50 Hz  
| | o Cooling Medium | Air Cooled  
| | o Air Dryer: Refrigerated Type | Integrated i.e. should be inbuilt with the Air Compressor  
| | o Single Complete Unit | Tank Mounted, 500 Litres  
| | o Motor Type | IP55 (TEFC), Insulation Class "F"  
| | o Bearings | Greased for Life  
| | o Air Dryer Pressure Dew Point (100% relative humidity at 20 Deg. C/ 68 Deg. F) | 3 Deg. C / 37 Deg. F at maximum FAD  
| | o Down Stream Filter | For Removal of Oil Aerosol and Solid Particles  
| | o Oil Carry over (maximum) | 0.0009 (mg/m³) or less  
| **Item I** | Warranty minimum – 1 year or higher  
| | o Please quote warranty for 2nd and 3rd year as an optional item |
| **Item J** | Computer systems for laser operation, robot programming – 2 nos  
| | o i7 processor, min 8 GB RAM, 512 GB SSD, 27-inch display, keyboard, mouse and UPS  
| | o preferred Make: Dell/HP  

**Scope of work at customer’s site:**  
| o Loading/unloading, installation and commissioning of the complete system  
| o Complete integration and installation of robot, processing head, laser and accessories  
| o Demonstration of laser at various power levels  
| o Demonstration of power modulation  
| o Demonstration of copper welding (1 mm + 1 mm with lap configuration) |
o Demonstration of cladding using metal powder: copper, SS316 (the customer will arrange a powder feeder)
o Training for minimum 2 days
o Online support as per requirements

**Quotation should include for:**
1. Price of the items mentioned above in the Scope of Supply
2. Charges for executing all jobs mentioned above in the Scope of Work, including charges of visiting service engineers and their travel etc.,

Details of the make and models for each of the quoted items along with related technical brochures should be submitted along with the technical offer.

**Manufacturer requirement:**
1. The OEM/supplier must provide details of the organization (preferably academic/research institutes) in India (showing at least 3 Customers) where similar or higher power laser system has been supplied. If the product has not been supplied in India, details of the organization (preferably academic/research institutes) where OEM/ supplier has supplied similar or higher power laser systems may be provided.

**Delivery**

Installation and commissioning are to be completed by the first week of March 2023

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.

<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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<tr>
<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>
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<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>
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<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>
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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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</table>

(Signature of the Tenderer)

Name:

Seal of the Company
(ANNEXURE-III)
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)

<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>
<thead>
<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)

Name of the Firm

<table>
<thead>
<tr>
<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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</thead>
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</table>

Signature and Seal of the Manufacturer/ Bidder

______________________________

Place: __________________________

Date: __________________________

27
(ANNEXURE-V)

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

Tender No. :- ………………………………… Date:- …………..

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

Dear Sir,

We manufactures 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 Manufactures)

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 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 also authorize only 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.
(ANNEXURE-VI)

(For Goods/ Services Contracts)

No._________________ Dated:_______________

CERTIFICATE

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that this bidder is not from such a country.

OR (whichever is applicable)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that this bidder is from __________(Name of Country) and has been registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.

(Copy/ evidence of valid registration by the Competent Authority is to be attached)

Signature of Bidder/ Agent

Name: __________________________

Designation: ______________________

Organization Name: __________________________

Contact No. : __________________________
I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is not from such a country and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

OR (whichever is applicable)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is from ____________ (Name of Country) and has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.

(Copy/ evidence of valid registration by the Competent Authority is to be attached)

Signature of Bidder/ Agent

Name: ___________________________

Designation: _______________________

Organization Name: __________________________

Contact No. : ___________________________
BID SECURITY UNDERTAKING
(To be issued by the bidder on company’s letterhead in lieu of EMD)

To,

The Registrar,
I.I.T. Delhi, Hauz Khas,
Delhi – 110016.

We, M/s ____________________
________________________________ (Name of the Firm), with ref. to Tender
No. ________________ dated __________ hereby undertake that:

1. We accept all terms and conditions of the tender document.
2. We accept that, we will not modify our bid during the bid validity period and will honour the contract after
   the award of contract.
3. In the event of any modification to our bid by us or failure on our part to honour the contract after final
   award, our firm may be debarred from participation in any tender/ contract notified by IIT Delhi for a period
   of one year.

Yours faithfully,

(signature)

Name:

Date:

Office Seal:
**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>Envelope – 1</th>
<th>Content</th>
<th>File Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Compliance Sheet (Annexure - I)</td>
<td>.PDF</td>
</tr>
<tr>
<td>2.</td>
<td>Organization Declaration (Annexure - II)</td>
<td>.PDF</td>
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<tr>
<td>3.</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>Technical supporting documents in support of all claims made at Annexure-I</td>
<td>.PDF</td>
</tr>
<tr>
<td>5.</td>
<td>Previous Supply Order (Annexure - IV)</td>
<td>.PDF</td>
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<tr>
<td>6.</td>
<td>Original Equipment Manufacturing Manufacturing Authorization Form (MAF) (Annexure - V)</td>
<td>.PDF</td>
</tr>
<tr>
<td>7.</td>
<td>Certificate - Bidder Not from/ from Country sharing Land border with India &amp; Registration of Bidder with Competent Authority (Annexure-VI)</td>
<td>.PDF</td>
</tr>
<tr>
<td>8.</td>
<td>Certificate – Bidder Not from/ from Country sharing Land border with India, Registration of Bidder with Competent Authority &amp; not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority (Annexure-VII)</td>
<td>.PDF</td>
</tr>
<tr>
<td>9.</td>
<td>Bid Security Undertaking in lieu of EMD (Annexure-VIII)</td>
<td>.PDF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Envelope – 2</th>
<th>Content</th>
<th>File Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Financial Bid 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>
</table>