
	सामग्री प्रबंधन अनुभाग भारतीय प्रौद्योगिकी संस्थान, रूडकी रूडकी-247667, हरिद्वार, उत्तराखण्ड, भारत Phone-(O) 01332-28-4293, 4693 E-mail: mmiitr@iitr.ac.in	Material Management Section Indian Institute of Technology Roorkee-247667(Haridwar) (Uttarakhand) (India) Phone-(O) 01332-28-4293, 4693 E-mail: mmiitr@iitr.ac.in	
	GSTIN-05AAALI0033R1Z5	E-mail: mmiitr@iitr.ac.in	
	PAN-AAALI0033R		

निविदा प्रलेख / Tender Document

No. 1600001198/MM-6/IITR/2020-21/Laser, Optical Parametric/CHEMISTRY/55

29-Jul-2020

Bids under two bid systems (Technical and Commercial) are invited Online at CPP Portal (<https://eprocure.gov.in/eprocure/app>) from the reputed manufacturer/authorized supplier/dealer for the following items. **Manual bids will not be accepted.**

वस्तु की तकनीकी विषिष्टताये / Technical Specifications of item:

Sr. No	Name of item / Specifications	QTY	UOM
1	Amplifier	1	Set
2	Laser Tables	1	Set
3	Spectrometer System	1	Set
4	Optical Parametric	1	Set

Note:

1. The firm must quote itemwise separately. L-1 will be assessed itemwise as mentioned above.

(For Detailed Technical Specification Plz refer Annexure-VII)

नोट-1: कृपया वस्तु का मूल्य एवं कर अलग-अलग दर्शाए।

Note-1: Please quote the Rate & Taxes of the item separately.

Note-2: E-way bill is to be issued by the Venders/Transporter

Note-3: The HSN / SAC Code of the item must be mentioned.

For Reasonability of Rates, The firm must enclose the last two supply orders for the same item with Financial Bid (Annexure-III) only.

Critical Date Sheet

1	Published Date	29-Jul-2020	(16:00)
2	Bid Document Download / Sale Start Date	29-Jul-2020	(17:00)
3	Seek Clarification Start Date	29-Jul-2020	(18:00)
4	Seek Clarification End Date	6-Aug-2020	(16:00)
5	Pre Bid Meeting Date	7-Aug-2020	(11:00)
6	Bid Submission Start Date	10-Aug-2020	(15:00)
7	Bid Submission End Date	18-Aug-2020	(17:00)
8	Bid Opening Date	19-Aug-2020	(12:00)

Chapter-1 : Instruction to bidders

A. The Tender should be enclosed with proper certifications like Agency Certification, Authorization certificate and/or Proprietary Certificate, as the case may be, in support of your offer.

B. बोली का जमा किया जाना / Submission of Bids:

The bids should be submitted online in two parts –

- 1 (i) The Technical Bid (Annexure-I, II & VII) with EMD and Tender Acceptance Letter
 - (ii) The Financial Bid (Annexure-III & IV) & Price Bid in .XLS Format
- Rates in .xls format will only be considered for Financial evaluation.

- 2 The bids should be on official pad preferably with GST Number of the firm
- 3 The quotations should bear full details and where possible may be duly supported with catalogues, pamphlets, literature, samples of the item/items as the case may be for comparing the quality and rates of the item(s).
- 4 The transportation cost, insurance charge etc., if any, percentage/ rate of GST or all other taxes and duties should be clearly mentioned.
- 5 The bids / rates / tenders should remain valid for a minimum period of 90 days from the date of financial opening.
- 6 **Since this purchase being for research purpose, I.I.T., Roorkee is registered in DSIR, New Delhi, it is therefore exempted from the payment of custom duty/GST up to the limit of exemption as per Govt. Rules. The bidder should quote accordingly.**
- 7 The rates shall not be subject to escalation of any nature.
- 8 The rates quoted should be applicable to educational institutions and any cost advantage received in lieu thereof should be passed on the Institution.
- 9 While quoting / sending rates, the firm shall give an undertaking as per Annexure-II.

C. विधि निक्षेप/ Earnest Money Deposit (EMD):

The Technical Bid should accompany an EMD of value as mentioned below against each item should be deposited online into below mentioned account.

Details of IIT Roorkee Bank Account:

Account Name: NON MHRD GOVERNMENT FUND IIT ROORKEE

Account No.: 00000032685865515

Bank Name: STATE BANK OF INDIA

Branch Address: IIT ROORKEE, ROORKEE

IFSC Code: SBIN0001069

MICR: 247002094

The Bidder will have to fill EMD details & provide the tender reference number in the narration/remarks while doing the payment as per quoted items and share the receipt of the same in pdf on CPP Portal (<https://eprocure.gov.in/eprocure/app>). The qualification in Technical bid will be subject to the submission of EMD in above mentioned account within schedule date and time as mentioned in the NIT. IITR shall not be responsible for any delay in submission of EMD.

In case the EMD is not received in above mentioned account within the aforesaid period, the bid will be out rightly rejected.

Exemption on submission of EMD will be given against valid MSME/NSIC certificate under valid category.

The earnest money shall be refunded to all the unsuccessful firms, without any interest after finalization of the contract.

EMD shall be refunded to the successful firms on receipt of PBG/Security Deposit. No interest is payable on the EMD to either the successful firms or the unsuccessful firms.

Item No.	Amount	Remarks
1	In Rs. 9,00,000/-	EMD amount of Rs. 17,500/- mentioned in Portal is of item no. 4. But the Bidder has to submit EMD as per items quoted as mentioned on Point C, else your bid will be rejected.
2	In Rs. 55,000/-	ईएमडी राशि रु 17,500 / - पोर्टल में उल्लिखित आइटम नंबर 4 का है। लेकिन बोलीदाता प्वाइंट सी पर उल्लिखित उद्धृत आइटम के अनुसार ईएमडी जमा करनी है, अन्यथा आपकी बोली खारिज कर दी जाएगी।
3	In Rs. 1,50,000/-	
4	In Rs. 17,500/-	

D. निष्पादन बैंक प्रत्याभूति/ Performance Bank Guarantee (PBG):

In case the total order value of items becomes Rs.25.00 Lakhs or above, 10% of the cost price in the form of Bank Guarantee or FDR pledged in favor of "The Registrar, IIT Roorkee" is required at the time of installation of the equipment which should remain valid at least during the warranty period plus sixty days. No interest shall be claimed by the bidder on the PBG submitted.

E. बोलियों का खोला जाना/ Opening of Bids:

- 1 The Technical Bids will be opened online at CPPP Portal (<https://eprocure.gov.in/eprocure/app>)-Plz refer Critical Date Sheet

- 2 The Financial bids of only the Technically Qualified bidders will be opened. The date and time for opening the Financial Bid will be communicated to the respective firm later by the system (CPP Portal (<https://eprocure.gov.in/eprocure/app>))
- 3 Representatives of the firms(s) may be present at the time of openings, if they so desire.

Chapter-2 : Conditions of Contract

- F.** ठेका देना / Award of Contract:
The final selection of the bidder for the award of the contract will be made on the basis of the lowest commercial bid amongst the Technically Qualified Bidders.
- G.** पूर्व-आपूर्ति निरीक्षण / Pre-supply Inspection:
Authorized representative of the Institute shall make the final inspection before supply of the item at site of the firm, if required.
- H.** वस्तु की आपूर्ति / Supply of Item:
The whole supply as per order shall have to be completed within the time mentioned in the order failing which the I.I.T. Roorkee shall have the right to accept or reject any quantity of items ordered. The firm will have to arrange for supply of the material in good condition.
- I.** भुगतान की शर्तें / **Payment Terms:**
- A.** **Payment in INR for supply of goods:**
Where installation is not required: 100% payment will be made after satisfactory delivery of material duly certified by the HOD/P.I. **OR**
Where Installation is required :100% payment will be made after satisfactory delivery and installation of the material duly certified by the HOD/P.I. **OR**
80% payment will be made on receipt and acceptance of goods and balance 20% on successful installation and commissioning duly certified by the HOD/P.I. **OR**
100% Advance will be paid against submission of 110% Bank Guarantee of the Total Order value. Bank Guarantee should be in favor of "The Registrar, IIT Roorkee" which should be valid till the date of Installation/Delivery period + 30 days.
- B** **Payment in INR for AMC/Service:**
Quarterly/Halfyearly after satisfactory completion of work/service duly certified by the H.O.D./P.I.
- J.** **दंड/Penalty:**
A penalty of 0.5% of the total order value per week shall be levied for the delay subject to a maximum of 5% of the total order value.
In case of the non-supply of the item after the acceptance of the work/supply order, EMD will be forfeited by the Institute.
- K.** **अप्रत्याशित घटना/Force Majeure:**
For the purpose of and within the scope of contract by way of indication and not of limitation, the term "Force Majeure" shall mean acts of nature, strikes, Lockouts, or other industrial disturbances, act of public/enemy, wars, blockades, insurrection, riots, epidemics, landslides, earthquakes, storms lightening, flood, washouts, civil disturbances, explosion and any other similar even not within the control of either party on which by exercise of due care and diligence neither party is able to prevent or overcome.
- L.** **मध्यस्थता / Arbitration:**
In the event of any difference or dispute arising out this work, all effort shall be made by both the parties to settle the same amicably. Failing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act 1996, by arbitrators appointed in accordance with the said Act. The arbitration shall give reasoned and speaking award. All disputes are subject to Roorkee jurisdiction only.
- M.** **बोली अस्वीकृती के लिए मानदंड / Criteria for bid rejection:**
- 1 If technical bid found without the required undertaking (Annexure-II).
 - 2 If it found at a later date that any information given in the bids is Incorrect/false then the bid is liable to be disqualified/rejected.
 - 3 Canvassing in any form will result to disqualification.
 - 4 If "extra, as actual" etc. are mentioned against any of the price components in the bid the bid will be rejected.
 - 5 If the firm quotes 'NIL' charges / consideration, the bid shall be treated as unresponsive and will not be considered.
 - 6 If financial bid is found along with technical bid in pdf on CPP Portal, then the bid shall be rejected outrightly.

Chapter-3 : Schedules of requirements

- N.** टिप्पणी / Note:
- 1 If the supplier/firm is manufacturer/authorized dealer/sole distributor/of the item, the certificate to this effect should be attached.

- 2 Please note that the firms must submit the compliance Statement in an organized and structured manner in respect of all the specifications as per Annexure-VII with the supporting catalogue/leaflet of the firm. Annexure-I, II & VII have to be submitted with Technical Bid and Annexure-III & IV with financial bid.
- 3 It may also be noted that the tender bids received after the stipulated date & time or found incomplete and the tender bids containing false/incorrect information shall be summarily rejected. The Institute shall not entertain any communication in this regard, whatsoever.
- 4 The firm is required to give its Bank Account details with IFSC for the purpose of making e-payment.
- 5 The Indian Institute of Technology (IIT) Roorkee reserves the right to reject any quotation wholly or partly without assigning any reason.
- 6 The quantity shown in the tender can be increased or decreased to any extent depending upon the actual requirement.
- 7 The decision of the institute in all matters relating to eligibility, acceptance, rejection of the bid will be final and binding on the applicants.
- 8 IIT Roorkee discourages High Sea Sale purchase. All tenders with High Sea Sale will be rejected.
- 9 The firms should clearly mention (in the financial bid) the Harmonized System of Classification (HS code) defined by the Central Custom and Excise Board (Govt. of India)- for the item(s) involving import.
- 10 **If the bid opening date happens to be a holiday, then the bid will be opened at 3.30PM of the next working day followed by the holiday.**
- 11 If an agent submits bid on behalf of the Principal/OEM, the same agent can not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- 12 Indian Agent should submit the certificate from the Foreign Principal that they are the Authorized & Registered Indian Agent.
- 13 The quantity shown against the item is approximate and may vary as per demand of the Institute at the time of placing order. Also, the final requirement of each line item will be decided by the Institute at the time of placing the PO.
- 14 **Any corrigendum/addendum/errata in respect of the Tender Notice/ Enquiry letter shall be made available CPP Portal (<https://eprocure.gov.in/eprocure/app>). Hence prospective bidders are advised to visit the CPP Portal (<https://eprocure.gov.in/eprocure/app>) regularly.**
- 15 Bidders shall be responsible for the correctness of the information provided in the enquiry letter/tender document. If it is found at a later date that any information given in the bid is Incorrect/false then the bid is liable to be disqualified/rejected.
- 16 Before submission of bids, bidders should read the complete enquiry letter/tender document carefully and ensure that the bidders fulfill the eligibility criteria.
- 17 In case the item/product is under rate contract with DGS&D or GeM, then Bidder should certify that the rate quoted is not over and above (higher side) the rates under RC with the DGS&D or GeM.
- 18 **In Item Wise BoQ .xls sheet, In column M, leave blank for the item/service not provided/quoted by you. If quoted 0 then it will be considered that the item/service will be provided free of cost.**

Or

- In Item Rate BoQ .xls sheet, If quoted 0 for the items/services in column M then it will be considered that the items/services will be provided free of cost.**
- 19 **The Institute reserves the right to rectify any discrepancy of this advertisement, if found later on. In case of any inadvertent mistake in the process which may be detected at any stage even after the issue of purchase order, the Institute reserves the right to modify/withdraw/cancel any communication made to the bidder.**

Chapter-4 : Specifications and allied Technical details

Plz. See Annexure- I, II, VII

Chapter-5 : Price Schedule (to be utilized by the bidders for quoting their prices online in .XLS format at CPPP Portal (<https://eprocure.gov.in/eprocure/app>))

Plz. See Annexure- III & Price Bid in .XLS Format

Chapter-6 : Contract Form

Purchase Order is used as Contract Form

Chapter-7 : Other Standard Forms, if any to be utilized by the purchaser and bidders

Plz. See Annexure- IV & Tender Acceptance Letter

*उप कुलसचिव (सामग्री प्रबंधन) / सहायक कुलसचिव (सामग्री प्रबंधन)
Deputy Registrar (MM)/ Assistant Registrar (MM)

***Document Digitally Signed on <https://eprocure.gov.in/eprocure/app>**

For any Clarification regarding technical specifications of item Please Contact:

**Prof. Ravindra Pandey,
Deptt. of Chemistry,
IIT Roorkee**

**Deptt. of
Chemistry,
IIT Roorkee**

**Ph.-01332-28-4318
Email: r.pandey.fcy@iitr.ac.in**

तकनीकी बोली
विस्तृत विवरण अनुपालन रिपोर्ट के साथ प्रस्तुत किया जाना है (अपने आधिकारिक लेटर हेड पर विक्रेता/फर्म द्वारा प्रस्तुत करने के लिए)

Detailed specification cum compliance report to be submitted with the Technical Bid
(to be submitted by the vendor/firm on its official letter head)

(For Detailed Technical Specification Plz refer Annexure-VII)

Sr.No	Name & Required Specifications of Item(s)	Qty	UOM	Offered specifications of item(s) by the firm
1				
	Firm's Profile :			
1	Manufacturer/Authorized Agent/Distributor/Dealer/Supplier(valid certificate must be attached)			
2	E-mail I.D. & Telephone/Mobile No. Detail of Bank A/C			
Note:	1. "offered specifications", should be filled up properly in the format provided as per Annexure-I.			
	2. Volume & Weight of the item should also be mentioned.			
	3. The HSN / SAC Code of the item must be mentioned.			

Signature: _____

Name : _____

Designation : _____

Seal of the Organisation

उपबंध / UNDERTAKING

Ref. No. No. 1600001198/MM-6/IITR/2020-21/Laser, Optical Parametric/CHEMISTRY/55
Dated:- 29-Jul-20

That all the terms/conditions mentioned in the enquiry letter/tender against which the rates are being given are acceptable to the firm.

It is certified that the rate quoted is not over and above (higher side) the rates under RC with the DGS&D or GeM.

It is certified that the firm has never been black-listed from any Government Department. (State/Central Govt./ Autonomous/ PSU)

Signature_____

Name_____

Financial Bid

(to be submitted by the vendor/firm on its official letter head)

Ref. No. No. 1600001198/MM-6/IITR/2020-21/Laser, Optical Parametric/CHEMISTRY/55
 Date: 29-Jul-20

Rates :

Sr. No	Name of item / Specifications	Qty	UOM	Rate	Amount (INR) Or In Other Currency
					To be filled in .XLS sheet (attached)
Total					To be filled in .XLS sheet (attached)
Grand Total Rs.					

1) Price of the items should be clearly mentioned if supplied Free of Cost.

Terms & Conditions:

- 1 Prices (Quoted in Rs.): FOR Deptt. of Chemistry, IIT Roorkee
- 2 **Payment:** **Should be clearly mentioned, As per clause-I of enquiry letter.**
- 3 Validity:
- 4 Delivery period:
- 5 Other charges:
- 6 **Warranty:**
- 7 Rejection: Equipment if found not as per the required specification would be rejected.
- 8 Penalty Clause: As per clause-J of enquiry letter.
In case of the non-supply of the item after the acceptance of the work/supply order, EMD will be forfeited by the Institute.
- 9 PBG: In case the total order value of items becomes Rs.25.00 Lakhs or above, 10% of the cost price in the form of Bank Guarantee or FDR pledged in favor of "The Registrar, IIT Roorkee" is required at the time of installation of the equipment which should remain valid at least during the warranty period plus sixty days. No interest shall be claimed by the bidder on the PBG submitted.

It is certified that the rate quoted is not over and above (higher side) the rates under RC with the DGS&D or GeM.

Signature _____
 Name _____
 Designation _____
 Seal of the Firm/Organization _____

Mandatory field to fill up by the supplier (enclosed with financial bid only):

Ref No: No. 1600001198/MM-6/IITR/2020-21/Laser, Optical Parametric/CHEMISTRY/55
Date: 29-Jul-20

1 Please tick (v) carefully the following as per requirement:

A Customs Duty Exemption Certificate (with following supporting document) []
i) GATT Declaration
ii) Authority Letter for custom clearance
iii) Bank Release Order (BRO)
iv).....
v).....
vi).....
vii).....

B Road Permit / Trade Tax Declaration (against Form-32). []

C GST Exemption Certificate. []

2 Please fill up the following details:

A Complete address of Freight Forwarder, Air lines etc. in whose favor Bank Release Order (BRO) has to be issued:

M/s _____

B Complete address of Custom House Agent (CHA) / Clearing Agent in whose favor GATT / Authorization for custom clearance has to be issued:

M/s _____

C Complete address of the firm / supplier / CHA to whom original clearance documents will be sent:

M/s _____

3 Supplier has to submit above details with the financial bid wherever possible and has to send the above detail to mmiitr@iitr.ac.in and our CHA well ahead in time prior to shipment.

4 **IITR CHA Address :**

**M/s Cwick (Import Consolidation), Private Limited,
L-II/101, New Mahavir Nagar Extension,
Outer Ring Road, New Delhi-110018,
E-Mail: info@cwickimport.com and followup@cwickimport.com,
Tel: +91-09313996082, +91-11-25996082, +91-11-25992781**

5 **Details of Institute :**

IEC CODE	0100000011	
AD CODE	0001069-2770325	S.B.I., IIT ROORKEE
	0303974-2770324	P.N.B. IIT ROORKEE

Instructions for Online Bid Submission

Instructions to the Bidders to submit the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>.

- 1 Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the contractors/bidders on the e-Procurement/e-tender portal are prerequisite for tendering.
- 2 Bidder should register for the enrollment in the e-Procurement site using the "Online Bidder Enrollment" option available on the home page. Portal enrollment is generally free of charge. During enrollment/registration, the bidders should provide only valid and true information including valid email id. All the correspondence shall be made directly with the contractors/bidders through email id as registered.
- 3 Bidder need to login to the site through their user ID/ password chosen during enrollment/registration.
- 4 Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY/nCode/eMudra etc. recognized by Controller of Certifying Authorities (CCA) India on eToken/SmartCard, should be registered.
- 5 The registered DSC only should be used by the bidder in the transactions and should ensure safety of the same.
- 6 Contractor/Bidder may go through the tenders published on the site and download the tender documents/ schedules for the tenders.
- 7 After downloading/getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as required, otherwise bid will be rejected.
- 8 Any clarifications may be sought online through the tender site, through the contact details or during pre-bid meeting if any. Bidder should take into account the corrigendum if any published before submitting the bids online.
- 9 Bidder may log in to the site through the secured login by the user id/ password chosen during enrolment/registration and then by submitting the password of the e-Token/Smartcard to access DSC.
- 10 Bidder may select the tender in which he/she is interested in by using the search option and then move it to the 'my tenders' folder.
- 11 From my tender folder, he may select the tender to view all the details uploaded there.
- 12 It shall be deemed that the bidder has read and understood all the terms and conditions before submitting the offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the incomplete bid shall stand rejected.
- 13 Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/ schedule and ordinarily it shall be in PDF/xls/rar/jpg/dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip/rar and the same if permitted may be uploaded. The file size being less than 1 MB the transaction uploading time will be very fast.
- 14 The Bidders can update well in advance, the documents such as certificates, annual report details etc., under "My Space option" and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
- 15 Bidder should submit the Tender Fee/ EMD as specified in the tender. The hard copy should be posted/couriered given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the same should be uploaded as part of the offer.
- 16 While submitting the bids online, the bidder shall read the terms and conditions and may accept the same to proceed further to submit the bid packets.
- 17 The bidder has to select the payment option as offline to pay the Tender FEE/ EMD as applicable and enter details of the same.
- 18 The details of the DD/any other accepted instrument, physically delivered, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise submitted bid shall not be acceptable or liable for rejection.
- 19 The bidder has to digitally sign and upload the required bid documents one by one as indicated. Every act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read, understood and agreed with all clauses of the bid document including General conditions of contract without any exception.
- 20 The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid may be rejected.

- 21 If the price bid format is provided in a spread sheet file like BoQ_XXXX.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid/BOQ template shall not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for the tender.
- 22 The bidders are advised to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission due date and time (as per Server System Clock). The TIA shall not be held responsible for any delay or the difficulties faced during the submission of bids online by the bidders.
- 23 After the bid submission (i.e. after Clicking "Freeze Bid Submission" in the portal), the acknowledgement number indicated by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and also be used as entry pass to participate in the bid opening.
- 24 The time settings fixed in the server side and displayed at the top of the tender site, shall remain valid for all actions of requesting, bid submission, bid opening etc., in the e- Tender system. The bidders should follow such time during bid submission.
- 25 All the data being entered by the bidders would be encrypted using Public Key Infrastructure (PKI) encryption techniques to ensure the secrecy of the data. The data entered is not retrievable by unauthorized persons during the bid submission and until the time of bid opening by any person.
- 26 Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers' public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 27 The confidentiality of the bids is maintained with the use of Secured Socket Layer (SSL) 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 28 The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
- 29 For any queries regarding e-Tendering process, the bidders may contact at address as provided in the tender document. Parallely for any further queries, the bidders are advised to contact over phone: **0120-4001005** or send an e-mail to – cppp-nic@nic.in.

Prequalification

- 1 An undertaking by the firm that it has never been black-listed must be attached along with the Bid, failing which the Bid shall be rejected. (As per Annexure-II)
- 2 True copy of Permanent Account Number.
- 3 Details of GST along with a copy of certificate to be attached.
- 4 Submission of samples if required, for all items indicated in the NIT. The make of items proposed to be supplied should be indicated and submitted along with the techno commercial unpriced bid without indicating the pricing components.
- 5 Willingness to execute all orders which are placed to meet emergency requirement on priority basis. The Bidder shall note that standards for workmanship, material and equipment, and references to brand names designated by the Purchaser in the tender document are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in his bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

Tender Acceptance Letter
(To be given on Company Letter Head)

Date:

Sub: Acceptance of Terms & Conditions of Tender.

Tender No. 1600001198/MM-6/IITR/2020-21/Laser, Optical Parametric/CHEMISTRY/55

Tender description:

Dear Sir,

- 1 I/We have downloaded/ obtained the tender document(s) for the above mentioned 'Tender No.' from the web site(s) namely:


as per your advertisement, given in the above mentioned website(s).
- 2 I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like section(s), schedules(s) etc.), which form part of the contract agreement and I/we shall abide hereby by the terms/conditions/ clauses contained therein.
- 3 The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.
- 4 I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/ corrigendum(s) in its totality/entirety.
- 5 In case any provisions of this tender are found violated, then your department/organisation shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Technical Specifications for Laser, Optical Parametric amplifier and Spectrometer System

S. No.	Items	Detailed Technical Specification
1.1	Amplifier	<p>Amplifier Pulse duration: <35fs Central Wavelength ~800nm Power: 5W or more Repetition rate: 1KHz Spatial mode: TEM00 Power Stability: <0.5%rms over 24 hrs Beam M^2: <1.3 (both axes) or better, Beam Diameter ($1/e^2$) 10-11 mm Pre-Pulse Contrast Ratio: > 1000:1 Post-Pulse Contrast Ratio: > 100:1 Stable operation over a 4°C temperature range</p> <p>Seed laser for Amplifier: Central wavelength: Fixed at ~800 nm Pulse duration: <35fs, Suitable bandwidth for seeding Amplifier Output average power: ≥ 400mW or more @ 800nm Power Stability: It is mandatory to provide power stability <0.5% rms over 2 hrs or better Repetition rate: ~80MHz Spatial mode: TEM00 Beam Divergence <1.5 mrad Beam M^2: <1.3 (both axes)</p> <p>Solid state Q switched pump laser for the Amplifier Wavelength: 527nm Repetition rate: 1KHz Nominal Repetition Rate 1–10 kHz It is mandatory to provide Power/Energy Stability <0.5% rms(over 2hours) . Fully compatible for above mentioned amplifier Dedicated laptop with 8GB RAM or more and 1TB HD or more/512 GB SSD or more, MS Windows 10 Professional 64Bit, INTEL 8th Generation i5-8400 2.8GHz CPU 6Core or better It is mandatory to include all the necessary items such as power supply unit, water chillers, filters, routing optics and other necessary accessories for the complete function of the amplifier.</p>
1.2	Optical parametric Amplifier (to couple with amplifier)	<p>Tuning range: 290 nm-11 micron Pulse duration: 100-120fs Pump energy upto: 2.5mJ; output power at 3 microns ≥ 8 mW and 6 microns ≥ 4.5mW Repetition rate: 1KHz Necessary beam routing optics from amplifier to the OPA should also be included. Any additional accessories, if required for the complete functioning of the OPA should be provided. For DFG, it is mandatory to use KTA crystal. Dedicated laptop with 8GB RAM or more and 1TB HD or more/512 GB SSD or more, MS Windows 10 Professional 64Bit, INTEL 8th Generation i5-8400 2.8GHz CPU 6 Core or better.</p>
1.3	Power meter and power heads	Suitable powerheads and power meter for different wavelengths ranging from 1 mW to 10 W (800 nm - 11 micron) should be included.
1.4	Laser Goggles	8 pairs of goggles for 800nm wavelength and 2 pairs for 527nm
1.5	Optical fibre Spectrometer	Optical fibre Spectrometer Spectrum Analyser for UV-VIS-NIR region 200nm-1100nm with suitable detectors and software. Plug and play via the micro USB connection. Optical resolution: ~0.1-10.0 nm FWHM, Signal-to-noise ratio: 300:1 or better
1.6	Power backup	1hr for the entire system. Power back up for 5 kVA for chillers and 10 kVA for the entire system along with UPS with isolation transformer should be provided.
1.7	Reusable items	It is mandatory to quote total price for the reusable items, which are not covered under warranty for three years. It is also mandatory to provide the list of reusable items and price breakup for the same in a separate sheet.
1.8	2 years AMC charges	It is mandatory to quote annual maintenance for additional 24 months after

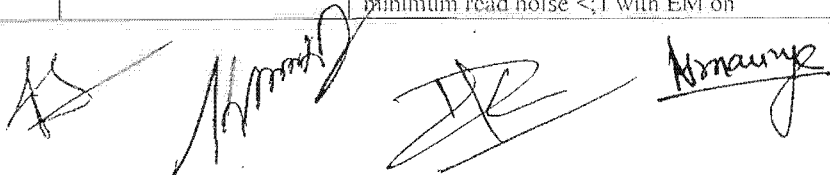


Technical Specifications for Laser, Optical Parametric amplifier and Spectrometer System

	after expiry of 3 years of comprehensive warranty	completion of 36 months' comprehensive warranty. If the downtime of the instrument is more than one week, the warranty will be extended accordingly.
1.9	General Instructions	<p>Warranty It is mandatory to provide 36 months of comprehensive warranty from the date of complete installation and commissioning. The warranty should cover all electronics, optics, filters, gratings, batteries and UPS for all the items from 1.1 to 1.8.</p> <p style="text-align: center;">FOR</p> <p>It is mandatory to quote for CH-CH IIT Roorkee.</p> <p>The vendor should have 10 years of experience in installing such systems in institutes of repute viz. IITs, IISERs, IISc and Central Universities.</p> <p>The vendor must quote the price including delivering, installation and training at Department of Chemistry, IIT Roorkee.</p> <p>Installation and sales and service: It is mandatory to give user list for the above mentioned instruments in India. This should also provide the list of institutions where the above mentioned spectrometers are installed. Installation and training. The company has to do installation and provide complete training to students.</p> <p>The vendor must have excellent sales service and applications support with a number of service engineers and service centre at Delhi and around. The service engineers must be experienced and factory trained. The response time of engineer to visit IIT Roorkee should not exceed 5 working days.</p> <p>Delivery time: Within 12 weeks after issuing of letter of credit. Vendors have to quote item 1.1-1.8 all together and must mention the individual prices of each item. LI will be decided upon the sumtotal of items mentioned in 1.1-1.8</p>
2	LASER Tables	<p>1500 x 457 mm doubler interface, 1500 x 3600 x 457 mm table sections doubled</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Mounting Holes M6 • Surface Flatness ± 0.1 mm over 600 mm square • Mounting Hole Pattern 25 mm grid • Mounting Hole Borders 12.5 mm • Working Surface: ferromagnetic stainless steel • Top and Bottom Skins: 4.8 mm thick with integrated damping layer • Type of Dampers: Narrowband Tuned Dampers and Broadband Dampers • Tuned Dampers mass-spring type two tuned mass dampers • Tunability Range of Narrowband Dampers 25 Hz to 525 Hz • Broadband Damping Constrained layer core, damped working surface and composite edge finish • Hole Sealing Type Easy clean conical cup, 19 mm deep, non-corrosive high impact polymer material • Maximum Dynamic Deflection Coefficient 0.8×10^{-3} or better • Maximum Relative Motion Value $< 2.0 \times 10^{-7}$ mm or better • Deflection Under Load $< 1.3 \times 10^{-3}$ mm or better • Non-Magnetic Surface: No • Alpha-Numeric Grid Labels: Yes • Grid Markings: Standard grid markings on the table for easy and repeatable component placement • Side Panel Highly Damped, composite wood to help eliminate vibrations from the side. <p>Six S-2000 standard vibration isolators Isolator Height 16 in. (406.4 mm) SET</p> <ul style="list-style-type: none"> • Load per Isolator > 900Kg • Number of Isolators: 4 • Tie Bar Flange: No • Self Centering : Yes

Technical Specifications for Laser, Optical Parametric amplifier and Spectrometer System

		<ul style="list-style-type: none"> • Settling Time: 1.5 s • Releveling Accuracy: ± 0.010 in. (0.254 mm) • Horizontal Damping Oil • Horizontal Isolation, 5 Hz 85% • Horizontal Isolation, Resonance 1.5 Hz • Horizontal Isolation, 10 Hz 95% • Vertical Isolation, 10 Hz 98% or better • Vertical Isolation, 5 Hz 94% or better • Vertical Isolation, Resonance 1 Hz • Height Adjustment $+1.3$ in. (33 mm) • Horizontal Amplification at Resonance 9 dB • Vertical Amplification at Resonance 10 dB • Maximum Air Pressure 85 psi or better • Float Height Indicator: Yes <p>Air Compressors for Pneumatic Isolator Systems Super-precise vertical adjustment down to better than ± 0.010 in. (0.25 mm)</p> <ul style="list-style-type: none"> • Operating Sound Level (1ft) (dB): 30 or better • Release Valve Sound Level (dB): 62 or better • Flow Rate: (20-80 psi) 0.68 (19.3) - 0.80 (22.7) [CFM(dm³/mm)] or better • Tank Capacity (liters): 3.5 or more • Max. Air Pressure [psi (kg/cm²)]: 116 or better • Regulator Filter: Yes • Air Intake Filter: Yes • Automatic Turn Off Switch: Yes <p>Warranty: 12 months from the date of complete installation and commissioning. Delivery time: Within 12 weeks after issuing of letter of credit. It is mandatory to quote for CH/CH HT Roorkee. (FOR)</p>
3	Spectrometer System	<p>Focal length: 320mm or higher Aperture: F/4.1 or better for high light throughput Gratings: Motorized, Interchangeable indexed 4 gratings turret Resolution: ≤ 0.1 nm at 500 nm with 16 μm pixel CCD with 1200 lines/mm grating. Adaptive focus for best resolution adjustment at Iris for resolution enhancement without using software enhancement No. of Input: One entrance slit No. of exits: One, exit detector port Wavelength accuracy centre: 4 pm or better Wavelength repeatability: 10pm or better Image astigmatism correction: Optimized toroidal optics USB interface. Software: Latest 32 & 64 bit Software should be provided Following Gratings to be offered: 300 lines/mm blazed at 300nm 1200 lines/mm blazed at 300nm 1200 lines/mm blazed at 600nm 1800 lines/mm holographic (FH) optimised for 360 - 1100 nm Detector EMCCD for spectrometer Active pixels: 1600 x 200 or more Pixel size (W x H): 16 x 16 μm or smaller Image area: 25.6 x 3.2 mill with 100% fill factor or better Sensor: Back Illuminated EMCCD with UV coating Peak Q.E: > 95% Quantum efficiency > 30% from 200nm to 350nm Active area pixel well depth: 200,000 e- or higher Register well depth: Conventional mode: 400,000 e- Electron Multiplying mode: 800,000 e- Cooling: -80°C with air (minimum) with option to add water cooling to lower the temperature -100 °C or less Readout Conventional modes: 50kHz, 1 MHz, 3MHz or similar with minimum read noise < 1 with EM on</p>



Technical Specifications for Laser, Optical Parametric amplifier and Spectrometer System

		<p>Maximum spectra: 649 with Full vertical binning or higher Digitization: 16 bit EM gain: 1 - 1,000 times (software controlled) Sensitivity (e-/count): Conventional mode: Adjustable from 0.8 -3 EM mode: Adjustable from 5 -20 Linearity: Better than 99% Vertical clock speed: 4.9, 9.8, 19, 38,57 (software selectable). Software: to control both spectrometer and detector through USB, making a fully integrated system Warranty: 12 months from the date of complete installation and commissioning. Dedicated computer with 16GB RAM or more and 1TB HD or more/512 GB SSD or more, MS Windows 10 Professional 64 Bit. INTEL 8th Generation i5-8400 2.8 Ghz CPU 6 Core or better Delivery time: Within 12 weeks after issuing of letter of credit. It is mandatory to quote for CHE/CP HT Roorkee. (FOR)</p>
4	Oscilloscope	<p>Analog Channels 4 Analog Bandwidth 350MHz or higher RF Channel 9KHz-200MHz or better Display 9 inch WVGA color display or higher Rise Time ≤ 1.14ns or better Record Length 10 M Points or better per channel Sampling Rate(per Channel) 2.5 GSs/s on all channels simultaneously Vertical Resolution 8 bits or better Input Coupling and Impedance AC, DC ; 1 MΩ, 50 Ω ⁵ Sensitivity Range 1 mV/div to 10V/div Time Base Range 1 ns/div to 1000 s/div Accuracy: ± 10 ppm or better Math function Arithmetic and Math functions features such as (Multiplication, addition, FFT, Intg, Diff, etc) Standard accessories One passive probe per analog channel (500MHz, 10X, 3.9 pF) Warranty: Standard Three Years Warranty</p> <p>Upgradable Options Oscilloscope upgradable features: (a)Bandwidth Upgradable upto 1.0 GHz (b)Upgradable for upto 16 Digital channels (C) RF Bandwidth upto 3 GHz (d)Upgradable for Arbitrary Function Generator (Single Channel, minimum upto 50 MHz) (e) Power Measurement and Analysis tool.</p> <p>Vendor should be authorized from OEM Service centre should be available in India. OEM should have a NABL accredited calibration lab facility in India. It is mandatory to quote for CHE/CP HT Roorkee. (FOR)</p>

