IIT/PHY/TENDER/20-21/SD/001

NOTICE INVITING TENDER

Indian Institute of Technology Kharagpur, an Institute of National Importance, invites sealed bids from principal manufacturers or their authorized distributors (foreign firms or their Indian representative companies), who have an adequate credential for the Procurement of “Ti:Sapphire laser system” at the Department of Physics, IIT Kharagpur.

Interested vendors may submit their sealed bids under Two-Bid system as per Technical Specifications given at Annexure I and General Terms & Conditions and other formats given at Annexure II to V. Two covers (Technical Bid and Price Bid) are to be sealed and placed in one large Cover superscribed with tender reference number with date.

The technical bid will be evaluated first and price bids will be opened in respect of those bidders, who are found technically qualified after evaluation of Technical bids.

Kindly refer to the Institute website www.iitkgp.ac.in [link: Tenders] for complete tender details. The same is also available in the CPP Portal [https://eprocure.gov.in/eprocure/app]. If there is any corrigendum/addendum, it shall only be published on the Institute’s website and Central Public Procurement Portal.

Head
Department of Physics
IIT Kharagpur

To
1. Institute Website
2. CPP Portal
3. Department Notice Board
| **Enquiry No** | **IIT/PHY/TENDER/20-21/SD/001**  
**Date:** 10.08.2020 |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Tender Fee (Non refundable)</td>
<td><strong>Rs. 2000.00/-</strong> (By way of Demand draft from any Nationalized Bank /Commercial Bank and paid in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur.)</td>
</tr>
<tr>
<td><strong>Two Bid System</strong></td>
<td>Two bids – (i) Technical and (ii) Price bid in two separate envelopes placed &amp; sealed in one envelope.</td>
</tr>
<tr>
<td><strong>Last date for submission of sealed tenders/quotations</strong></td>
<td><strong>02.09.2020 at 03.00PM</strong></td>
</tr>
<tr>
<td>Technical Bid opening date/time and Place</td>
<td><strong>02.09.2020 at 04.00 PM</strong> at HOD office, Physics Department, IIT Kharagpur</td>
</tr>
<tr>
<td><strong>Price Bid opening date/time and Place</strong></td>
<td>Will be intimated later to technically qualified vendors.</td>
</tr>
<tr>
<td><strong>EMD</strong></td>
<td><strong>Rs. 270000.00/-</strong> (By way of Demand draft from any Nationalized Bank /Commercial Bank and paid in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur or through Bank Guarantee).</td>
</tr>
<tr>
<td><strong>Submission of bids (by speed post) (Addressed to)</strong></td>
<td>To, Sajal Dhara, Department of Physics, IIT Kharagpur, Kharagpur, West Bengal – 721302</td>
</tr>
<tr>
<td>Name of the item for procurement and technical specifications</td>
<td>Annexure- I</td>
</tr>
<tr>
<td>General Terms and Conditions</td>
<td>Annexure-II to III</td>
</tr>
</tbody>
</table>
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the item &amp; specification</th>
<th>Unit</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Name of the item: Ti:Sapphire laser system</strong></td>
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<tr>
<td></td>
<td><em>The Ti:Sapphire Laser System must include (but not limited to) the following features:</em></td>
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<td></td>
<td><strong>Specifications:</strong></td>
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<tr>
<td></td>
<td>• Wavelength tuning range: 700-980nm</td>
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<td></td>
<td>• Operating modes: Femtosecond, Picosecond &amp; Continuous Wave (CW) mode and corresponding cavities should be available in the system.</td>
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<td></td>
<td>• Pulse width: ≤120fs in femto mode &amp; ≤2ps in Pico mode</td>
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<td></td>
<td>• Average Power: ≥1W @ 800nm</td>
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<td></td>
<td>• Repetition rate: ≥76MHz</td>
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<td></td>
<td>• Noise (rms): ≤0.1%</td>
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<td></td>
<td>• Power stability: ≤4%</td>
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<td></td>
<td>• Beam diameter: &lt;1mm</td>
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<td></td>
<td>• Spatial mode: TEM(_{00})</td>
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<tr>
<td></td>
<td>• Polarization: Linearly polarized</td>
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<td></td>
<td><strong>Specification for pump laser system:</strong></td>
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<td></td>
<td>• Wavelength: 532nm</td>
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<td></td>
<td>• Power: ≥8W</td>
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<tr>
<td></td>
<td>• Power stability: ±1%</td>
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<td></td>
<td>• M(^2): &lt;1.1</td>
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<tr>
<td></td>
<td>• Spatial mode: TEM(_{00})</td>
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<tr>
<td></td>
<td>• Noise (rms): ≤0.02%</td>
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<td></td>
<td>• Suitable chiller (if required) must be included</td>
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<td>• Suitable mirror with mounts set to route the beam into Ti: Sapphire laser must be included</td>
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<td><strong>Additional requirement must be fulfilled &amp; comply</strong></td>
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<td></td>
<td>• The laser must have femtosecond, Picosecond &amp; Continuous wave mode of operation. The quoted model datasheet must reflect all 3 modes of operations with three different cavities.</td>
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<td></td>
<td>• The system must include optics and components for both fs, ps and CW operation inside the laser. Conversion between fs, ps, and CW operation should be simple and effortless.</td>
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<tr>
<td></td>
<td>• The prism which controls pulse width during fs operation must be externally adjustable during purging operation.</td>
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</table>
• System must also provide a diagnostic mechanism for detecting and eliminating any CW breakthrough.

• The laser shall have an integrated, on board, diagnostic system to facilitate user friendly operation which includes:
  
  1. A power monitor detector to facilitate alignment and optimization,
  
  2. A fast photodiode to display the modelocked pulse train and allow the triggering of external devices,
  
  3. A CW detector to detect any CW breakthrough during modelock operation, (4) a humidity sensor to monitor water vapor to insure easy adjustment of the nitrogen flow rate to the required level. A detail diagram of this configuration must be provided.

• The system should include a starter mechanism which actively and reproducibly initiates modelocked operation and shuts off once the system is started. The system shall include a sensor to monitor the modelock operation and automatically restart the system when modelocked operation be interrupted.

• The entire tuning range (700-980nm) shall be accessible with a single, broadband optics set.

• Vender should have supplied 3 such systems in India. User list must be included.

Optional Accessories:

1- Laser Power meter

• Suitable laser power sensor & display unit should be quoted
• Power range: 10mW to 10W
• Wavelength range: 250nm to 1100nm

2- Autocorrelator

• Pulse width range: 50fs to 3ps
• Wavelength range: 700nm-1100nm
• Sensitivity: 1W^2
• Delay Resolution: 0.001% of the total scanning range
• Input aperture: >5mm

Guarantee/Warranty of above items:

01 (One) year after successful installation and demonstration + 4 (Four) years of AMC included in the price.
Bidders and OEM qualifying criteria:

1. The bidders/OEM must have supplied 3 such systems at academic institutes in India. Need to attach PO copies.

2. OEM proposed by bidders should have Sales and support office in India for the last 10 years and should be able to provide technical support at IIT Kharagpur.

3. The warranty provided by the bidder should have a back to back arrangement with the OEM. The declaration should be the part of a Letter of Authorization and signed by competent authority at the OEM.

4. The bidder should be OEM/Authorised Partner/Service Provider of the OEM and a Letter of Authorization from OEM should be attached.
GENERAL TERMS AND CONDITIONS

1. **Payment Terms & Performance Bank Guarantee (PBG):** 90% payment will be made on submission of shipping documents and balance 10% payment will be made on installation, commissioning and submission of PBG for performance period if the payment is made by LC (Letter of Credit), otherwise 90% will be made after successful installation and commissioning duly certified by the concerned Head of Department. Balance 10% may be released against submission of Performance Bank Guarantee to the tune of 10% of the total purchase order value. PBG shall be issued from any nationalized bank/ commercial bank, validity which shall be warranty period plus 60 days drawn. No advance/mobilization support, is payable against supply of stores. In the event of failure to deliver the stores beyond the specified date, liquidated damages @ 1% per month or part thereof in respect of the value of stores will be deducted, subject to a maximum of 5%; alternately the order will be cancelled and the undelivered stores purchased from elsewhere at the risk and expense of the vendor.

2. **Tender Fee:** Tender fee must be submitted by the way of demand draft from any Nationalized Bank /Commercial Bank and paid in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur. Tender fee should be enclosed separately in an envelope and placed in the Technical Bid document superscribing “Tender Fee”. Tender fee is non-refundable.

3. **Earnest Money Deposit (EMD):** EMD must be submitted in the form of Demand Draft drawn in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur or through Bank Guarantee. EMD should be enclosed separately in an envelope and placed in the Technical Bid document superscribing “EMD”. The validity of the EMD should be 3 (three) months (6 months in case of Bank Guarantee) from the date of issue. Any bid without EMD will be summarily rejected. No interest is payable on EMD. EMD will be refunded to the unsuccessful bidder, after finalization of the tender process. **The EMD of vendor awarded with the contract to be treated as part of security deposit towards Performance Guarantee. No interest is payable on Security Deposit.** Security Deposit shall be forfeited if the selected vendor after award of contract fails to execute the same.
4. **IIT Kharagpur** will give exemption for submission of tender fee and EMD who are registered with MSME, NSIC or start-ups as recognised by DIPP as per revised rule 170 of GFR – 2017 only. However proper and valid document in this regard must be submitted by the bidders in support of their claim.

4. **Delivery of Stores:** The store items are to be supplied within 4 months from the date of receipt of the Purchase Order.

6. **Price:**
   
a. Price may be quoted either in Indian Rupees or in foreign currency.

b. Where bidder intends to quote in Indian Rupees (INR), the price should be quoted "FOR IIT Kharagpur “basis. The price should be all inclusive. (Price breakup must be showed.)

c. Where bidder intends to quote in foreign currency FCA/FOB source port price by air/sea to be quoted.

d. Bidders, who are Indian Agents of OEMs, should furnish a clear declaration as follows: We declare that I am/we are Accredited Agents of the suppliers aboard.

e. Foreign bidders must disclose the name and address of agent and representative in India.

f. Indian Institute of Technology Kharagpur is a public Funded Academic & Research institute under the minister of Human Resource Development and is eligible for GST @5% vide Notification No.47/2017 dated:14.11.2017 and 10/2018- Integrated Tax (Rate) dated:25.01.2018 by the Ministry of Finance, Department of Revenue. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.

  
g. IIT Kharagpur is registered DSIR, Govt. of India and eligible for exemption for payment of Customs Duties in Terms of Government of India Notification No.51/96-Customs dated 23.07.96. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.

h. Agency Commission, if any will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances.

i. The unit prices should be for the same unit as indicated in the tender enquiry.

j. Discount, if any, should be indicated separately/prominently.

k. Offers should normally be on fixed and firm price basis. Any clause making price variation will not be acceptable.
7. **Bid:** Technical Bid and Price Bid should be submitted in two separate sealed envelopes superscribing reference number with date on the top of the envelope. **Tender fee and EMD should be enclosed with the Technical Bid documents, in separate sealed envelopes.**

8. **Acceptance of Tender:** The Authority of IIT Kharagpur does not bind itself to accept the lowest priced bid and reserves the right to reject any or the entire tender bids received without assigning any reason thereof.

9. The addendum/corrigendum if any shall be published on Institute's Website i.e. www.iitkgp.ac.in and on CPP Portal.

10. **Extra Features:** If the bidder provides any other extra features on the Hardware or Software which are not mentioned in the tender product specifications, then that shall be highlighted in clear terms, with documentary evidence/literature.

11. **Compliance List:** The proposal should be properly indexed and a compliance list against the technical specifications should be provided.

12. **Service:** Response to ensure quality of services, the deputed Engineer from the OEM/Vendor shall have a minimum of 10 years of experience in the relevant field and must be in the payroll of the OEM/Vendor.

13. Interested vendors must be able to supply adequate spares and consumable during the comprehensive warranty period. Vendor should also ensure trouble free service and performance for another five years beyond the Comprehensive Warranty Period with adequate spares and accessories.

14. **Installation and Commissioning:** Free of cost at Department of Physics, IIT Kharagpur. The supplier must ensure timely installation of Experimental test setup with necessary support to the indenters, as per details and lists to be made available by the Stores & Purchase Section or the indenting Departments/Centres/Schools.
15. **Period of Validity:** Bids shall remain valid for acceptance for a period of 120 days from the date of opening of the tender.

16. The benefit of any downward price revision (revision on account of budget/financial policy, tax revision, EPZ etc.) is to be given to IIT Kharagpur by the selected OEM/vendor.

17. Past Performance of the Vendors will be judged at the time of Technical Evaluation.

18. The Institute does not bind itself to offer any explanation to those bidders whose technical bids have not been found acceptable by the Technical Evaluation Committee of the Institute.

19. Bidders should enclose the following documents:
   
   a. Certificate of Registration / Trade License
   
   b. Performa Price Bid (without mentioning the price rate) may be attached with technical bids
   
   c. Port or place of Shipment: Should be mentioned in the quotation [For foreign bidders].
   
   d. Purchase order to be placed on: Should be mentioned in the quotation with full address, email address, phone number.

20. Bidder or his/her authorized representative (with proper authorization letter for attending opening of technical bids and also for opening of price bids) may choose to be present at the time of opening of Technical Bids/Price Bids.

21. All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued i.e. Jurisdiction of KOLKATA HIGH COURT. Acceptance to this effect is also necessary at the time of opening of Technical Bid.
IMPORTANT

I. Director may accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The Institute at its discretion may change the quantity/upgrade the criteria/drop any item or part thereof at any time before placing the Purchase Order.

II. A bid submitted with false information will not only be rejected but also the OEM/Vendor will be debarred from participation in future tendering process.

III. In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.

IV. For any query pertaining to this bid document, correspondence is to be addressed to the End user

   Sajal Dhara  
   Department of Physics,  
   Indian Institute of Technology Kharagpur,  
   West Bengal-721302, India  
   [Ph: +91-222260415] Email: - sajaldhara@phy.iitkgp.ac.in

V. In case the due date for opening tender happens to be a holiday, the same will be opened on the next working day. The timings will however remain unchanged. Please Note that the Institute remains closed on Saturday & Sunday.

VI. The Bidders are requested to submit the bids after issue of clarifications only considering the changes made if any. Bidders are totally responsible for incorporating/complying the changes/amendments issued if any, in their bid.
# Annexure - III

## Enclosures:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Submitted (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Registration Certificate</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PAN and GST Certificates</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Status of the Tenderer (attach documents, if registered company/ partnership/proprietorship)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Whether OEM/representing foreign principle (attach copy of certificate/authorization)</td>
<td></td>
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<tr>
<td>5</td>
<td>Details of key top official/authorized official with e-mail id and contact number</td>
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</tr>
<tr>
<td>6</td>
<td>Income Tax Returns of latest last three years</td>
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<tr>
<td>7</td>
<td>Banker’s solvency certificate.</td>
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<tr>
<td>8</td>
<td>Summary of audited statement of accounts for the last three years.</td>
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<tr>
<td>9</td>
<td>Other documents like literature, catalogues etc., (if any)</td>
<td></td>
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<tr>
<td>10</td>
<td>Declaration (Annexure – IV)</td>
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<tr>
<td>11</td>
<td>Tender document duly signed (with seal) by the bidder.</td>
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</table>

**NOTE:**

Attach all relevant documents in the same serial order as above, properly indexed, duly signed and place in technical bid.

**Signature and seal of the Bidder**
Annexure - IV

DECLARATION

1. I, ________________________ Son/Daughter of Shri ________________________ ________________________ Proprietor/Partner/CEO/MD/Director/Authorized Signatory of M/s. _________________________________ am competent to sign this declaration and execute this tender document.

2. Tender ref no: _________________________________ dt: ________ . I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.

3. The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief.

4. I/we am/are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

5. Each page of the tender document and papers submitted by my Company is authenticated, sealed and signed, and I take full responsibility for the entire documents submitted.

6. I/we hereby confirm and declare that I/we am/are not blacklisted /De-registered /debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the works/ Services.

______________________________
Signature of the Authorized Person

______________________________
Date: -----------------------------

______________________________
Full Name: ------------------------

______________________________
Place: -----------------------------

______________________________
Company Seal: ---------------------
MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

Whereas ................................................................. (hereinafter called the “tenderer”) has submitted their offer dated ................................................................. for the supply of ................................................................. (hereinafter called the “tender”) against the purchaser’s tender Notice No. .................................................................

KNOW ALL MEN by these presents that WE ................................................................. of ................................................................. having our registered office at ................................................................. are bound unto ................................................................. (hereinafter called the “Purchaser”) in the sum of ................................................................. for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this .......................Day of ................................................................. 20 ..........

THE CONDITIONS OF THIS OBLIGATION ARE

(1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
(2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:
   (a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
   (b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)
Name and designation of the officer
Seal, name & address of the Bank and address of the Branch