



भारतीय प्रौद्योगिकी संस्थान इंदौर  
Indian Institute of Technology Indore  
सिमरोल, खंडवा रोड़ इंदौर – 453552  
Simrol, Khandwa Road, Indore- 453552

**E-Procurement of Chemical Vapor Deposition (CVD)  
System**

Bids to be submitted online  
for  
(Technical & Financial Bid as per Schedule of requirement)

-----  
**Materials Management Section  
IIT Indore**

**Sodium (Hub) Building, Simrol  
Khandwa Road, Indore- 453552**

**Tel.: 0731 - 2438700/203/958/949, Email: [mms@iiti.ac.in](mailto:mms@iiti.ac.in)**

**Website: [www.iiti.ac.in](http://www.iiti.ac.in),**

  
सुरेश चन्द्र ठाकुर  
Suresh Chandra Thakur  
प्रशासनिक अधिकारी  
Administrative Officer  
आई आई टी इन्दौर / IIT Indore



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Indian Institute of Technology Indore  
Simrol, Khandwa Road, Indore- 453552

Tel.: 0731-2438700/203  
E-mail: mms@iiti.ac.in

NIT. No.: IITI(MM)/EE(PRJ)/1/1A/364/SM/2019-2020

June 17, 2020

### NOTICE INVITING TENDER

Online e-Tenders are invited by IIT Indore (in Two Bid System) from Original Equipment Manufacturers (OEM) their Authorized distributors/ Accredited Indian Agents /sole selling agents for the of following items:

| Sl. No. | Description of Stores                                            | NIT No.                                | EMD (in INR) - Online                                                                                                                                                                                                                                                                     |
|---------|------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | <b>Chemical Vapor Deposition (CVD) System</b><br><br>Quantity- 1 | IITI(MM)/EE(PRJ)/1/1A/364/SM/2019-2020 | <b>Rs 75,000.00</b><br>(Rupees Seventy Five Thousand Only)<br><b>Online EMD Submission:</b> Bidder can submit their EMD online by visiting to the belowlink:<br><a href="https://www.onlinesbi.com/sbicollect/icollecthome.htm">https://www.onlinesbi.com/sbicollect/icollecthome.htm</a> |

**SUBMISSION OF BIDS ONLINE IN TWO BID** <https://eprocure.gov.in/eprocure/app>

**Tender No.: 364 as specify above is only for reference, while submitting EMD and for future communication.**

**Note:**

- I. Tender Documents with detail terms & conditions can be downloaded from our website: [http://www.iiti.ac.in/tender\\_mms.php](http://www.iiti.ac.in/tender_mms.php) & <https://eprocure.gov.in/eprocure/app>
- II. The prebid report will be uploaded on the website & CPPP and the same will be a part of the tender document.
- III. All the details/document pertaining to the NIT such as tender document, pre-bid report, corrigendum and any further updates will be available only on our website and also at Central Public Procurement Portal.
- IV. Bids/Quotations may be submitted directly by the OEM or their Authorized distributors/Dealers/Resell Agents/Channel Partners with proof of authorization.
- V. Those who quote for all items can participate in the bidding process.
- VI. The EMD of the unsuccessful bidders may be refunded after approval of the purchase committee report.
- VII. All the communications with respect to the tender shall be addressed to the tender shall be addressed to In- charge (MM), IIT Indore, Tel.: 0731-2438700/203/958/949, Email id- [mms@iiti.ac.in](mailto:mms@iiti.ac.in)

IIT Indore shall not be responsible for non-receipt bid due to internet issues or any other reasons. **For any issues related to tender please contact Material Management Section,**  
Tel: +91-731-2438700/203/949/958 Email: [mms@iiti.ac.in](mailto:mms@iiti.ac.in)

IIT INDORE

सुरेश चन्द्र ठाकुर  
Suresh Chandra Thakur  
प्रशासनिक अधिकारी  
Administrative Officer  
आई आई टी इंदौर/IIT Indore  
In Charge (MM)  
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**ONLINE BIDDING DOCUMENTS FOR Chemical Vapor Deposition (CVD) System**

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**Chapter 1**  
**Schedule of Tendering:**

| Sl. No. | Event                                                                         | Date and Time/ Remarks                                                                                                                                                                                     |
|---------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01      | Down loading of Tender document online from CPPP                              | From 17/06/2020<br><a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a><br>&<br><a href="http://www.iiti.ac.in/tender_mms.php">http://www.iiti.ac.in/tender_mms.php</a> |
| 02      | Bid submission start date                                                     | 17/06/2020                                                                                                                                                                                                 |
| 03      | Last date & Time of Submission of Bids Online / EMD (Technical and Price Bid) | 25/06/2020 @ 03.00 PM<br>Please refer tender Terms at IITI                                                                                                                                                 |
| 04      | Opening of Technical Bids Online                                              | 26/06/2020 @ 03.00 PM<br>Please refer tender Terms at IITI                                                                                                                                                 |
| 05      | All the communications with respect to the tender shall be addressed to       | In charge (MM), IIT Indore, Hub building (Sodium) Khandwa Road, Simrol Campus, Indore- 453552 Tel.: 0731-2438700/203/958/949                                                                               |
| 06      | Submission of Bid Online                                                      | <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>                                                                                                                    |
| 07      | FOR TAKING ASSISTANCE, IF ANY                                                 | CPP Portal website: <a href="http://www.eprocure.gov.in">www.eprocure.gov.in</a><br>CPP Portal Help Desk Toll Free No.:18002337315, 180030702232                                                           |



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## CHAPTER- 2 INSTRUCTIONS TO THE TENDERERS

The tender shall be submitted in accordance with these instructions and any tender not confirming to the instructions as under is liable to be rejected. These instructions shall form the part of the tender and the contract.

1. For Online Bid Submission 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](http://eprocure.gov.in/eprocure/app) ).The bidders are required to submit copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.
2. More information useful for submitting the online bids on the CPP Portal is available/obtained at [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)
3. For Registration: Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app) ) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
4. Foreign Bidders have to refer "DSC detail's for foreign Bidders" for Digital signature Certificates requirements which comes under Download Tab at <http://eprocure.gov.in/eprocure/app?page=StandardBiddingDocuments&service=page> and the remaining part is same as above and below.
5. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any tenderer stipulate any condition of his own, such conditional tender is liable to be rejected.
6. IITI reserves the right to reject any tender/bid wholly or partly without assigning any reason.
7. The Technical Committee constituted by the IITI shall have the right to verify the particulars furnished by the bidder independently.
8. Tenderer shall take into account all costs including installation, commissioning, cartage etc. for giving delivery of material at site i.e. IIT Indore before quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.
9. The item should be delivered at IIT Indore, Khandwa Road, Simrol, Indore and the supplier shall be responsible for any damage during the transit of goods.
10. All the tender documents & price bid to be uploaded as per this tender are to be digitally signed by the bidder.
11. Interested bonafide and reputed manufacturers/Indian agents (on behalf of their foreign principals) may submit online bids for each of the above equipment alongwith all requisite documents and scanned copy of online EMD submission reference.



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12. The Bidder(s) may note that ONLINE BIDS will ONLY be accepted. All the requisite supporting documents mentioned in the bid document should and must be uploaded On-line <http://eprocure.gov.in/eprocure/app> . The Bids sent through FAX, E-mail, by hand and/or by post shall not be accepted/ processed, in any case.
13. The bidders may submit duly filled and completed bidding document ONLINE as per instruction contained in the bidding documents. Incomplete bid shall be rejected. The conditions of tender shall be governed by the details contained in complete bid document.
14. In case, holiday is declared by the Government on the day of opening the bids, the bids will be opened on the next working day at the same time. The IITI reserves the right to accept or reject any or all the tenders.
15. The detailed instruction for online submissions of bid(s) through e-procurement module of Central Public Procurement of NIC, the bidder(s) may visit following link:- <http://eprocure.gov.in/eprocure/app?page=Help For Contractors & service=page>

### **CHAPTER - 3**

#### **LIST OF DOCUMENT TO BE UPLOADED WITH TECHNICAL BID:**

1. The intending Tenderer, in case of Original Equipment Manufacturers shall upload a self-declaration on their letter-head as PDF file in Cover-I of e-tender, along with the tender documents, confirming that they are regularly manufacturing, supplying, installing, testing & commissioning of the similar equipment for the **last 03 years.**
2. The intending Tenderer, in case of **Authorized Distributor/ Authorized Dealer** shall possess valid authorized Distributorship /Dealership license from Original Equipment Manufacturers. The tenderer shall enclose the copy of the same as PDF file in Cover-I of the e-tender while submitting the tender.
3. The equipment shall be in compliance with the specifications mentioned in **Chapter 06** of the tender and shall be of the latest technology, best quality and high standards. The documents mentioned and required as per chapter 06 part –I & Part –II to be enclosed in PDF.
4. Any optional accessories/ tooling, besides the standard equipment recommended for the better performance of the equipment, if offered, are provided with their full technical details including their use and advantage in a separate sheet with the tender documents.
5. **PAN Card, GST Details, Order Copies, Registration details of the firm/Company etc.**
6. **Bank Detail on letter head.**



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**CHAPTER - 4**

**PREPARATION OF BIDS**

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers (e-tender system) 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 the same 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 formats. Bid documents may be scanned with 100 dpi with black and white & color option.
4. Bidder should upload the standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) with each bids.
5. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

**SUBMISSION OF BIDS**

1. Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. A standard BoQ format has been provided with the tender document to be filled by all the bidders.
4. Bidders are requested to note that they should necessarily submit their financial bid in the format provided and no other format is acceptable. The 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 the name of the bidder) No other details should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the file name. If the BOQ file found to be modified by the bidder, the bid will be rejected.
5. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
6. All the documents being submitted by the bidders would be encrypted to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening.
7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
9. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

**ASSISTANCE TO BIDDERS**

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority 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 18002337315.



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### GENERAL INSTRUCTIONS TO THE BIDDERS

- 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".
- 3) Tenderer are advised to follow the instructions provided in the "Instructions to the Tenderer" for the e-submission of the bids online through the Central Public Procurement Portal for e-Procurement at <http://eprocure.gov.in/eprocure/app>

#### Online Bid Form

The bidder shall complete the online bid form and the appropriate price schedule furnished in the online bidding documents in section VII/1, indicating, inter alia for the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.

#### Online Bid prices

The Bidder shall indicate on the Price Schedule the unit price and total bid prices of the goods it proposes to supply under the Contract. To this end, the Bidders are allowed the option to submit the online bids for any one or more schedule specified in the "Schedule of Requirement" and to offer discounts for combined schedules. However, Bidders shall quote for the complete requirement of goods and services specified under each schedule on a single responsibility basis, failing which such bids (for the schedule in question) will not be taken into account for evaluation and will not be considered for award.

Prices indicated in the online price schedule shall be entered separately in the following manner.

#### **I. For goods offered from within India:**

- a. The price of the goods should be quoted for destination basis, charges towards freight, installation etc. may be mentioned. GST should be mentioned as applicable after referring the attached GST Notification.
- b. Any sales or other taxes/duties should be clearly mentioned, which will be payable on the goods in India if the contract is awarded.
- c. Charges for inland transportation, insurance and other local costs incidental to delivery of goods to their final destination should be mentioned. The final destination is specified in the schedule of requirements.
- d. Any element of cost, taxes, duties levies etc. not specifically indicated in the online bid, shall not be paid by the purchaser.

#### **II For goods offered from abroad**

- a) The price of goods shall be quoted Ex-Works/FOR as and if specified in the Schedule of Requirements.
- b) Charges for inland transportation, insurance and other local costs incidental to delivery of the goods from the port of entry in India to their final destination, which is specified in the Schedule of Requirement.
- c) The terms FOB, CIF, CIP etc shall be governed by the rules and regulations prescribed in the current edition of INCOTERMS, published by the Chamber of Commerce, Paris.





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- d) Prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account, unless otherwise specified in the Schedule of Requirements.

**III. Bid currencies**

- a. For domestic goods prices shall be quoted in Indian rupees only. Commission for Indian Agent, if payable, shall also be quoted in Indian Rupees only.
- b. For imported goods prices shall be quoted either in Indian rupees or may be quoted in foreign currency (currencies) and the portion of the allied work and services, which are to be undertaken in India (like installation & commissioning of equipment) are to be quoted in Indian currency.

**IV. Indian Agent**

- a) If a foreign bidder has engaged an agent in India in connection with its online bid it will be required to give the following information in the online bid:
  - i) the name and address of the Indian agent with their permanent income tax number.
  - ii) The details of the services the agent will render.
- b) The agency commission shall be indicated in the space provided for in the price schedule and will be paid to the bidders's agent in Indian rupees

**V. Period of validity of Online bids: Online Bids shall remain valid for acceptance for 180 days after the date of bid submission.**

**Proof of EMD submission must be attached to the Techno-Commercial Bid Only and NOT to the Price Bid. Bids received without EMD will be rejected.**

Note – Non-compliance of the above may disqualify your offer for consideration.



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**CHAPTER- 5**  
**GENERAL TERMS AND CONDITIONS**

1. **Delivery of Tender: Two- Bid through Online Mode.** IIT Indore reserves the right to **ignore any tender who fails to comply** with the above instructions without giving any notice.
2. **Two Bid:** Firm should submit the bids online:
  - a) **Technical Bid:** Technical bid will be opened on the due date for technical evaluation of bids. Technical evaluation matrix will be uploaded on CPPP for the intimation to the firms. The technically disqualified firms can represent towards disqualification within a week of uploading of technical evaluation matrix on CPPP. **Non- representation within stipulated time the tender will be processed further and no representation will be accepted thereafter.**
  - b) **Financial Bid:** The financial bids of technical qualified responsive bidder will be opened.
3. **Bidder:** Tenders are invited only from Original Equipment Manufacturers OR their authorized distributors/dealers, Vendors are requested to attach proof to show that they are the authorized dealers of the brand that they are quoting for the manufacturers of the product. Bids/Quotations of internationally recognized brand from authorized dealers only will be accepted.
4. **Bid Security (EMD) :**
  - a) **Earnest Money Deposit (EMD / Bid Security (BS) has to be submitted by bidders except those who are registered with**
    - (i) **Micro and Small Enterprises (MSEs)**
    - (ii) **Central Purchase Organization (CPO)**
    - (iii) **Concerned Ministry / Department.**
    - (iv) **Startups as recognized by Department of Industrial Policy & Promotion (DIPP).**
  - b) In such case, copy of the certificate showing registration with the abovementioned institutions to be uploaded in Cover-I of the e-tender in PDF format.
  - c) In case the unit is not covered as above, the EMD should be submitted online via <https://www.onlinesbi.com/sbicollect/collecthome.htm> and the payment reference should be attached in PDF with Cover I.
  - d) The EMD will be returned to the unsuccessful bidders after the orders are placed with the successful bidder.
  - e) The EMD will be forfeited if the bidder fails to accept the order based on his/her offer/bid or fails to supply the items.
  - f) No interest will be payable by the Purchaser on the Earnest Money Deposit. **The earnest money of all the unsuccessful tenderers will be returned to them after finalization of order or immediately after completion of validity of the bid.** The Earnest Money of successful bidder shall be returned on receipt of Performance Security. If the successful bidder fails to furnish the performance security or fails to supply the item as per Purchase Order (PO) terms and conditions within stipulated period, the earnest money shall be liable to be forfeited by IIT Indore
3. **Period for which the offer will remain opened:**
  - (i) Firms tendering should note the period for which it is desired that their offers should remain open for acceptance.



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- (ii) Quotations qualified by such vague and indefinite expressions such as "subject to immediate acceptance", "subject to prior sale", etc. will not be considered.
4. **Concession/Exemptions:** IIT-I being an academic institute is entitled for availing Customs Duty exemptions in terms of Notfn. No. 51/96 dated 23.07.1996, Notfn. No. 28/2003- Customs dt. 01/03/2003, Notfn. No.43/2017- Customs dt. 30/06/2017 & notfn. No. 47/2017- Integrated Tax (Rate) dt. 14/11/2017, Notfn. No. 10/2018- Integrated Tax (Rate) dt.25/0/2018 and Notfn. No. 45/2017-Central Tax (rate) dt. 14/11/2017, Notfn. No. 45/2017-Union Territory Tax (Rate) dt. 25/01/2018 as amended from time to time. Presently this is valid till 31.08.2021 vide Order No. TU/V/RG-CDE(1145)/2016 Dt.28/02/2018 issued from DSIR-Min. of Sc.& Tech; Govt. of India. **Please state clearly that this Certificate is required.**
5. **Opening of Tenders:** Online tender opening as specified in schedule of requirement. The received bid will be opened online, and it will be evaluated by a technical committee which will decide the suitability as per our specification and requirement. The financial offer/bid will be opened only for the offer/bid which submits all the required necessary documents and verified by the technical committee as technically qualified bidder as per Tender.
- a) **Award Criteria:** *The Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive, technically qualified and has been determined to be the lowest responsive evaluated bid.*
- b) **Purchaser's Right to vary Quantities at Time of Award:** *The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the tender without any change in unit price or other terms and conditions. The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract.*
- c) **Notification of Award:** *Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or e-mail that the bid has been accepted by way of a Purchase Order.*
7. IIT Indore is green zone campus, hence, after delivery and acceptance of item supplier should take back the waste packing material such as plastic, wrapping paper and toxic material. Further, any wooden packing material to be handed over to store
6. **Place of Delivery & Schedule:** 301B POD 1B, IIT Indore, SIMROL, Khandwa Road, Indore – 453552 and should be delivered within schedule.
7. **Guarantee/ Warranty:** The equipment should be covered comprehensive on-site warranty against any manufacturing defect for a period 01 Year from the date of successful installation and acceptance or as mentioned in **Chapter 6**. In case any part or whole of the equipment is found to be defective during the guarantee period, then the same will have to be replaced/repaired free of cost at our premises. Warranty certificate should be submitted with the bill(s).
8. **Insurance:** The date of delivery should be strictly adhered to failing which the purchase order is liable to be cancelled. Penalty may be imposed as per P.O. terms & conditions. Goods should be securely, safely and adequately packed & dispatched and delivered at the risk of supplier. In case of damage consignment the same should be replaced without any cost to the Buyer and the supplier can collect the damaged consignment after satisfactory replacement.



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9. **Inspection:** Before dispatch the materials, the vendor will give sufficient advance notice of the date in writing on which the goods will be ready for inspection. The Vendor also shall provide the purchaser all necessary facilities for pre dispatch inspection. If due to any reasons, it is not possible on the part of the purchaser to visit the plant/ site of the Vendor for inspection of the items, the Vendor shall share the detailed schematic diagram, pictures of item and the details as required by the IITI.
10. **Right of Acceptance:** This office does not pledge itself and reserves to itself the right of accepting the whole or any part of the tender or portion of the quantity offered and the firm shall supply the same at the rate quoted. The firm shall be at liberty to tender for the whole or any portion or to state in the tender that the rate quoted shall apply only if the entire quantity is taken from the firm.
11. Items supplied are subject to inspection and acceptance and the supplier should collect/ replace the rejected items at his cost and risk.
12. **Specification and Make:** Quotation should be given for the exact specification and make as shown in the enquiry against Sl. No. of the item. If in the view of the supplier there is any other alternative item which can serve out purpose, quotation may also be given for the same separately. Client list along with the order copy of similar equipment supplied to any IITs / any Govt. Organization including detail of price & all charges must be attached. In the case of items quoted having specifications different than those mentioned in the enclosed Tender format, kindly submit the information and the prices in the same format but on additional Sheet.
13. **Proof of Registration OR OEM Certificate/ Sole Distributorship Certificate MUST be attached.**
14. **No correspondence/discussion/visits whatsoever will be entertained on the subject unless specifically called by this office after opening the tenders for technical discussions/ price negotiations. Any violation of this will render the quotations invalid and the firm is liable to be blacklisted.**
15. **IITI reserves the right to call for techno-commercial/price negotiations. The company should depute competent representative for such discussion/negotiations whenever called for and he shall be competent to take on the spot decisions.**
16. IITI does not bind itself to accept the lowest or any tender and may cancel / withdraw the tender without assigning any reason and no claim whatsoever, for any reason arising out of such action, will be entertained by IITI.
17. **Liquidated Damages:** As Time is the essence of an order, the date of delivery should be strictly adhered to, otherwise the delivery in full or in part may not be accepted and penalty for late delivery will be imposed @ 0.5% (Half Percent) per week subject to a maximum of 10% of the total value of supply order & beyond 10% subject to approval of IITI. In case of delay in installation and Commissioning, Inspection, Certification etc. also the same rate of penalty shall be leviable.
18. **Force Majeure:** Neither the contractor nor the institute shall be liable to the other, for any delay in or failure of their respective obligations under this control caused by occurrences beyond the control of either party because of fire, floods, acts of God, acts of public enemy, wars, riots, strikes, lockouts, sabotage any law statute or ordinance order actions or regulations of the Government or any compliance there is similar to the above.



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Either party shall promptly notify the other of his commencement and cessation of such contingency and prove that such is beyond the controls and effects the implementation of this contract adversely.

19. The firm may give any of their commercial term, if required, in their techno-commercial offer only, and price quotation should contain only price.
20. Please inform the IITI in writing whether the owner of the firm or any of their partners/employees has close relations working with IIT Indore. This is for record only.
21. **IITI reserves the right to modify/alter/insertion or deletion on any part of the tender document /NIT to ensure fulfillment of its material & service requirement at any stage.**
22. The instructions about bidding given in this advertisement and the Tender Documents should be read thoroughly before bidding. IIT Indore reserves the right to accept or reject any or all quotations at any stage without assigning any reason whatsoever it may be.
23. **Cancellation:** IIT- Indore reserves the right to accept or reject or cancel any or all enquiries or quotations at any stage without assigning any reason thereof. In case of cancellation of order due to Non-compliance of the Terms and Conditions and Breach of the Contract, No compensation will be paid towards progress of order/procurement.
24. **Governing Law:** The order placed will be contract between the supplier and the buyer and shall be governed by the LAWS of India and under the contract shall be taken by the parties only in Indore, India to competent jurisdiction.
25. For any dispute, the place of jurisdiction shall be Indore, India only.



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**CHAPTER- 6**  
**TECHNICAL BID**

**PART –I**

Item details and technical specification as mentioned below:

| Sl. No | Required Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | QTY | Compliance Yes / No                    | Deviations, if any                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------|--------------------------------------------------|
|        | <b>Chemical Vapor Deposition (CVD) System</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     | Bidder should submit compliance matrix | To be mentioned along with the compliance matrix |
| 01     | <p>Furnace Structure: Shell construction uses aluminum which satisfies all rigidity requirements for the provided CVD.</p> <p>Cooling fans should be installed at the back of the furnace to ensure efficient ventilation and cooling of furnace.</p> <p>Furnace stands and panel box: Control panel box with a door coupled with furnace stand to a height of 1 meter</p> <p>Insulation: High purity <math>Al_2O_3</math> ; insulation chamber to withstand maximum temperature <math>1800^\circ C</math> which should guarantee excellent temperature uniformity.</p> <p>Skin Temperature: Surface temperature of case should be less than <math>25^\circ C</math>.</p> <p>High Purity Fused Quartz Alumina Tubes:</p> <p>Quartz tube size: ID 45 mm x length 1400 mm (Suitable OD based on commonly available quartz tubes in market). Material: High purity quartz. <b>Quantity: 3 Pieces.</b> Radiation shield installed.</p> <p><b>Heating Zones:</b> 12 independent heating zones with PID Controller, <b>Programmable from 100 mm to 900 mm in discrete steps.</b></p> <p>Heating element: Kanthal A1 heater wire is used.</p> <p><b>Working Temperature:</b> Maximum temperature is <math>1100^\circ C</math> Continuous operating temperature range is room temperature to <math>1100^\circ C</math></p> <p><b>Maximum heating rate:</b> Ramp rate standard heating at least <math>50^\circ C/min</math> at ambient and <math>5^\circ C/min</math> at <math>1100^\circ C</math>.</p> <p><b>Maximum cooling rate:</b> <math>20^\circ C /Minute</math> (programmable till 600</p> | 01  |                                        |                                                  |



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| <p>°C and after that natural cooling using via fan)</p> <p>Temperature accuracy: +/- 1°C</p> <p>Temperature Control: 12-channel PID temperature controller.</p> <p><b>Temperature gradient: User-defined temperature profiles along the length of tube</b></p> <p>Electrical Power: Single Phase 200-230 V, 50 Hz</p> <p>Thermocouples: Type-N thermocouple up to 1200° C</p> <p>PID is already tuned for the furnace provided with the system.</p> <p>Intelligent software protection ensures not more than 33% of heater power is provided for longer than 5 minutes.</p> <p>Gas Supply System: Four line gas manifolds using precision mass flow controller with digital display.</p> <p>Number of channels: 4 MFCs</p> <p><b>Flow Rate: 0-1000 sccm</b></p> <p><b>Supported gases: Nitrogen, argon, oxygen, hydrogen, methane. All programmable through the system software</b></p> <p>Pneumatic Valves: Flow rate control through computer controlled MFC. Needle valve not needed. A better option, viz. MFC, is being supplied.</p> <p>Vapor gas outlet tube size: 1/4" OD SS316</p> <p>Gas mixing chamber: One stainless steel gas mixing tank is required (120mmx60mm)</p> <p>Digital/computerized control system required for all MFCs.</p> <p>Digital Mass Flow Controllers Specification</p> <p>Mass flow controllers</p> <p>Accuracy (+/-): ± 0.2% of Full Scale (FS)</p> <p>Typical accuracy (with N<sub>2</sub>, calibration gas): ± (0.5% of reading +0.2% of FS) or equivalent.</p> <p>Adjustment: Flow displayed and adjusted from the computer.</p> |  |  |  |
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| <p>Aluminum Body.</p> <p>Maximum inlet pressure: Maximum inlet pressure 100PSI.</p> <p>Input /output digital signal: Mass Flow control.</p> <p>Input/output analog signal: Internally available</p> <p>Typical response time: 100 msec (adjustable)</p> <p>Typical Controller Settling Time: Under 1 second</p> <p>Warm up period: Less than 2 seconds</p> <p>Control range: 1-1000 sccm</p> <p>Material: Material Aluminum. Control valve: Closed Solenoid (Fast-Response)</p> <p>Gases: Pre calibrated for Ar, H<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, CH<sub>4</sub>, O<sub>2</sub>, NH<sub>3</sub>, and N<sub>2</sub>.</p> <p>Supply voltage: 12 Vdc. Supply current: 0.75 Amp</p> <p>Gas temperature: Ambient</p> <p>Humidity range: 0 to 100% non-condensing</p> <p>For flushing, a flow of 5000 sccm or more is required with an on/off valve, installed in parallel to the MFC. Perfect shut-off should be ensured with another on/off valve installed in series with the MFC and flush valve.</p> <p>The processing tube outlet can be purged through an on/off valve.</p> <p>Pipe line connection : : High pressure stainless steel pipe lines from - 1/8" OD/HP"</p> <p>Vent Valve: Computer controlled solenoid valve. This valve should be very rugged and dependable Pneumatic piston actuator, normally closed.</p> <p>Fittings: High-grade corrosion resistant stainless steel with Ferule connection.</p> <p>Pressure locking system: Reputed make ferrule Fittings.</p> <p>Pressure Control Unit; Vacuum Pump, Gauge and Sealing:<br/>The system should be able to run at both low pressure and</p> |  |  |  |
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| <p>atmospheric pressure.</p> <p>Controls: Pressure &amp; Flow Controller</p> <p>Vacuum Pump: (i) Stage: dual stage oil sealed rotary vane pump, (ii) <b>10<sup>-2</sup> mBar (7.5 mTorr) or better with rotary pump</b>, and iii) Flow Rate: at least 150 liter/min. Vacuum pump should come with exhaust filters.</p> <p>The vacuum pump Edwards or Pfeiffer make must comprise a two-stage rotary vane pump with SS vacuum bellows, quick clamps and a right-angle valve. Pump can be switched on only when purge is closed.</p> <p>KF25 adaptor and SS pipe need to be connected between pump and tube flange with precision ball valve.</p> <p>Digital vacuum gauge of reputed brand Analog Pirani gauge readout unit. Digital display available on the computer screen through A-to-D interface and display are installed with the furnace. Two stainless steel needle valves and 1/4" hose fittings, KF25 vacuum port and 1/4" feed through.</p> <p>Vacuum Sealing: (i) One pair of stainless-steel vacuum seal flange with hinged type. (ii) One pair of flange made of SS304 which seals tightly between tubes by double high temperature silicon O-rings to achieve high vacuum. The flange should be built with water cooling jacket. One KF 25 adaptor should be installed on left flange to connect a vacuum pump. One stainless steel needle valve should be installed on right flange.</p> <p>End Flanges: Flanges should accommodate either quartz processing tube as per requirement. Two sets of flanges having same dimensions are required two types of tubes. Fittings for controlled atmosphere: Stainless steel (SS310) fittings with water cooling arrangement and Whiton 'O' ring and suitable for vacuum and purging multiple gases. The flange must have built-in water- cooling jacket arrangement for use under high temperature operation.</p> <p>Porous ceramic blocks: Two porous ceramic blocks must be included for protecting flange from heating radiation.</p> <p>Multiple ports in the fittings: The above SS fittings should have the 5 ports in one side and two ports in opposite side. First side: 1. Evacuation, 2.vacuum gauge, 3. gas inlet, 4. Pressure gauge and 5. Thermocouple. All should have necessary</p> |  |  |  |
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| <p>valves and controls. Opposite side: 1. gas inlet 2. spare And good quality needle valves will be provided at et/outlet for effective gas flow control mechanism.</p> <p>Seal: One end of the tube needs to be connected with gas input via Wilson seal. Other end of tube needs to be connected with vacuum gauge and vacuum pumping.</p> <p>Sample Loading and Unloading: Both ends of the quartz tubes need to be connected with vacuum coupling using Wilson seals.</p> <p>Sample Holder: System should be capable of handling different substrates such as silicon wafer, quartz wafer and fiber fabrics. Two alumina boats are provided for horizontal placement of samples. Manual adjustment of substrate position.</p> <p>Two Stage Exhaust System : A 19 mm diameter exhaust pipe is provided to safely dispose of the process gases outside the laboratory.</p> <p>System Control Unit, Software &amp; Computerization: The Furnace must include a User-friendly GUI (Graphic User interface) software with the following features: Computer control system with Graphical User interface for complete process-related controls such as vacuum level, gas flow rates, gas pressure, process temperature, voltage and current. Software should have provision for manual settings, automated experiment programming, Real time instrument read-out, Alarm display, administration management.</p> <p><b>Unattended operation: The system should be capable of controlling all process parameters sequentially through user-defined recipes. In the bid, MoS<sub>2</sub>, graphene recipes are included.</b></p> <p><b>Remote access: User should be able to monitor, interact and run recipes on the system remotely over LAN.</b></p> <p><b>Software should have provision for manual settings, automated experiment programming, Real time instrument read-out, Alarm display, administration management.</b></p> <p>Remote diagnostics/trouble shooting of the system/process by the supplier through internet /tele- maintenance can be</p> |  |  |  |
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| <p>included.</p> <p>Power Supply and Control System: Direct Supply</p> <p>Control panel: The furnace bottom stand converted to control panel with all necessary electric and electronics on par with international standards. All electric and electronic materials from very high-profile company like Siemens or equivalent.</p> <p>Temperature control: temperature controller is used, Three (one for each heating zone) precision digital controllers with PID automatic control with 30 programmable segments for precise control of heating rate, cooling rate and dwell time (each zone can be controlled independently).</p> <p>Power Controller: Duty cycle controlled SSR drives.</p> <p>Safety controller: Intelligent software protection ensures not more than 33% of heater power is provided for longer than 5 minutes.</p> <p>Control switches: Mains on/off, out put on/off</p> <p>Safety: Input and output fuses</p> <p>Power for electronics: all the electronic circuit should be designed to withstand 20 kW load.</p> <p>Voltage distributer for uniform power supply to all the components of the CVD system.</p> <p>Safety and other requirements: The entire system should be thoroughly checked for leak (leak rate should be less than 10-6 cc/s). This should be shown at the time of inspection.</p> <p>Thermal insulation for minimum heat loss (less than 5% of the reactor temperature) to the surrounding.</p> <p>Electrical supply of the heater should be disengaged as soon as the furnace lid is opened. Heater mains can be engaged only if furnace temperature is within normal range i.e.. 0 to 1800 °C.</p> <p>Vendor should specify the maximum power rating and weight of the furnace.</p> <p>Other Requirements : Cleaning of chamber (purge line): Pump should enable N2, or Ar purging for cleaning process of quartz</p> |  |
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|    | <p>tube. Tube reaction chamber) after deposition can be flushed with Ar/N<sub>2</sub>, for which separate line should be provided. Purge can be opened (i) if pump is off and (ii) tube pressure is greater than certain threshold i.e.. 1 psig. During purge operation, tube should be always maintained under positive pressure i.e. between +1 psig and +2 psig, to prevent backflow of oxygen from atmosphere.</p> <p>Functional safety/technical certifications from technically competent independent companies or national/intentional organizations are required for the essential parts such as furnace, MFCs, electrical circuits/parts/, pump, sensors, gas detectors etc. Honeywell UL approved sense point HYDROGEN gas detector is required(Critical components carry OEM certifications. Safety features are documented in the user manual)</p> <p>All the emergency procedures should be outlined and detailed document should be provided to IIT Indore.</p> <p><b>Technical Demonstration</b></p> <p>(1) During installation on site, the system training and demonstration for successful growth of MoS<sub>2</sub> have to be demonstrated for, at least, 3 times for repeatability of 2D-material growth. Satisfactory demonstration of this will ensure the satisfactory acceptance by the user.</p> <p>(2) The entire system should be thoroughly checked for leak (leak rate should be less than 10<sup>-3</sup> cc/s). This should be demonstrated on site.</p> <p>(3) Critical components carry OEM certifications. Safety features are documented in the user manual</p> |    |  |  |
| 02 | <p><b>Scanning Tunneling Microscopy (STM)</b></p> <p>Scanning tunneling microscope comprising suitable Scan-head. The Controller and Data-Acquisition Electronics. An independent Lock-in Amplifier.</p> <p>A Suitable Vibration Isolation Platform. An appropriate Acoustic Isolation Shield. Software USB Drive. STM should work under ambient conditions. Simple tip change and preparation. No system setup required; just plug in PC and start the software.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01 |  |  |



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| <p>Sample Mounting support of at least 10mm diameter.</p> <p>Digitally controlled feedback parameter (Gain, Time Constant) adjustment. Lithography pulses of width down to 50 micro-seconds Fully integrated lock-in amplifier for dynamical conductance/local density of states (LDOS) imaging simultaneously with topography. Local barrier height imaging simultaneously with topography through the same lock-in amplifier. Independent Lock-in Amplifier with Independent X and Y outputs. Adjustable integration time constant. Pre- &amp; post-amp gain(s) of 1, 10 &amp; 100. Frequency range of 10 Hz - 100 KHz or higher. Reference output of 2V peak-to-peak.</p> <p>Current Amplifier: (-100nA to +100nA in steps of 50pA). Imaging speed: Up to 10 Hz. Scan drive signals: <math>\pm 100V</math> DC. Tunneling Current Range.: (-100nA to +100nA in steps of 50pA).</p> <p>Servo Control: Digital Feedback Parameter Gain, Time Constant) Adjustments. Sample Bias Range: -10V to +10V in Steps of 0.3mV or better -100V to +100V in Steps of 3mV or better. Imaging modes: Constant Current (Topography) Mode. Constant Height (Current) Mode. Dynamical Conductance/Local Density of States. Local Barrier Height</p> <p>Data Points: Currently Dual Window Imaging up to 750 x 750;</p> <p>Spectroscopy Modes: Current-Voltage, Current-Distance. Advanced Lithography Modes: Lithography provided with basic features. I-Z Spectroscopy: Tunneling Current vs tip-sample distance plots, Conductance vs Distance plots (Normal and Semilog) with data export options. I-t Spectroscopy: Tunneling Current or feedback signal output vs time plots, for different feedback control settings. Digitally controlled slope compensation. Scanners Maximum Scan Area: Greater than 3.5 <math>\mu m</math> x 3.5 <math>\mu m</math> Y Minimum Scan Area: Less than 2 nm x 2 nm (for Atomic Resolution with X/Y Resolution of 7 pm or better). Scan Resolution (XYZ): 7 pm x 7 pm x 3 pm or better. Scan orientation: Horizontal and Vertical Sample approach: Stick-slip motor or Piezo-tube walker, 10x magnified and illuminated tip-sample junction view. Sample size: Maximum 10 mm diameter or better Maximum 3 mm thickness or better.</p> <p>Vibration Isolation Platform Cut-off frequency : less than 10 Hz. Isolation method: Passive. Dimensions:</p> |  |  |  |
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <p>22cm(L)x20cm(B)x16cm(H) or appropriate: Small footprint, compact and lightweight. Handling: Ergonomic handles for easy portability. Acoustic (Air) Shield Dimensions Transparent Cover : 28cm(L) x 36cm(B) x 26cm(H) or appropriate Base Small footprint: 35cmx40cm or appropriate</p> <p>Camera Optics: HD 1080p camera for visual assistance during tip approach. Tool Kit A Toolkit (with tools for tip and sample changing, spare sample mounting discs, conducting silver paste, tip wire cutters) A clear instruction-cum-user manual. Two Pre-mounted Calibration Samples, one for large area scans and one for calibration at the 0.1nm level. 12 PtIr and Tungsten Tips (10 each) with 1m extra of tungsten wire. Reference Sample Kit (with 10 pre-mounted samples having HOPG, DVD and BluRay samples) .</p> <p><b>ITO or Graphite samples on two sample supports will be provided.</b></p> <p>Software and Computer Essential Software features: Dual image windows for scan and retrace display for all imaging modes. Export of scanned images to standard image formats like ASCII, jpg, png etc. In-built software for plotting imaging signal during scans Graphical X,Y offset selection for localized zooming. X/Y/Z Calibration utilities for the piezo-elements. 3D rendering of STM images. Spatial and Fourier image filtering tools like slope correction, Fourier Low Pass Filtering, Background Subtraction etc. Image analysis tools like line profile extraction, measurement of distances, localized zooming. Tip Locator to display current position of the tip over the sample Y In-situ tip cleaning &amp; restructuring utility by applying voltage pulses to the sample. A third-party branded computer with specifications of i7,8GB RAM, 1TB HDD, 24 LED Monitor, <b>wireless mouse, wireless keyboard</b>, etc.</p> <p>The user manual should preferably have 3-5 experiments for pedagogical purposes.</p> <p><b>Technical Demonstration</b></p> <p><b>Successful installation and comprehensive training to laboratory members, students, and researchers on site</b></p> |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|

**Techno Commercial Conditions**

|    |                                                                                                     |  |  |
|----|-----------------------------------------------------------------------------------------------------|--|--|
| 03 | <b>WARRANTY:</b> 01 Year on-site Comprehensive warranty from the date of installation & acceptance. |  |  |
|----|-----------------------------------------------------------------------------------------------------|--|--|



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|    |                                                                                                                                                                                                                                       |  |  |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 04 | <b>INSTALLATION:</b> Firm should install the Equipment free of cost at IIT Indore within 30 days from the date of delivery.                                                                                                           |  |  |
| 05 | <b>DELIVERY:</b> Within 12-16 Weeks from the date of purchase order.                                                                                                                                                                  |  |  |
| 06 | <b>AFTER SALES SERVICE:</b> Firm should have their authorized service agent in Indore for providing after sales service.                                                                                                              |  |  |
| 07 | <b>PRODUCT CATALOGUE:</b> Firm should submit detailed specification and product catalogue.                                                                                                                                            |  |  |
| 08 | <b>PREVIOUS ORDER COPIES:</b> Firm should share the previous order copies issued by any Govt./Autonomous Educational/Research Institute. The list of Equipment installed at various institutes with contact details should be shared. |  |  |

a. The bidder should submit his acceptance against each column as YES/NO and if No, bidder should specify the deviation.

b. Bidder should enclosed literature broucher/catalogue and highlight the technical parameters to enable the committee to evaluate the technical bids

(Signature of the Bidder, with Official Seal)



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PART- II

CONDITIONS FOR TECHNO-COMMERCIAL BIDS

TECHNICAL

1. Give brief description of item/Equipment/material with accessories. Items offered should conform to BIS (ISI) specifications or as explicitly stated. In case specifications offered are different, separate comparative technical specifications sheet shall be attached with details such as Sl.NO, specifications offered deviations if any, and remarks. Any product brief, test certificates available may be enclosed.
2. List of spares, if applicable should be attached.
3. Any optional, if offered, be provided with their full technical details including their use and advantage.
4. Bidders disqualified by Technical Evaluation Committee in technical bid will be given one week time to represent the case from the date of uploading the TEC report. Non- representation within stipulated time the tender will be processed further and no representation will be accepted thereafter.

COMMERCIAL

1. **PAYMENT TERMS:** Payment will be released through wire transfer/bank RTGS transfer after arrival, testing, inspection, installation of the item(s) and if found satisfactory with regard to quality, quantity and specifications ordered. The payment will be released after statutory deductions. For the payment, the firm has to submit bill(s), challans(s), warranty certificate, bank details/cancelled cheque, installation report, performance bank guarantee (if required) etc. to the In-charge (MM), IIT Indore. **The payment will be released within 30 days after receiving of the bills as mentioned above and from the date of received, tested/inspected/commissioned and found satisfactory with regard to quality, quantity and specifications ordered. In case of indigenous, the payment term may be 80% against delivery, acceptance of item and balance 20% after successful installation and submission of PBG. In case of import, the payment term may be 100% through Letter of Credit (LC)/Wire Transfer - 80% against dispatch documents and balance 20% after successful delivery & installation.**
2. Give details of installation and commissioning except price which will be only in price bid (if applicable).
3. Warranty may be quoted **One Year on-site Comprehensive warranty or AS MENTIONED IN CHAPTER 6** from the date of installation & acceptance.
4. Delivery desired is within **02 Months** from the date of releasing the supply order. Specify your delivery period. Items should be delivered only on Working Days (Monday to Friday) during office Hours only i.e. between 10.00am to 04.00pm.
5. In case of delayed supplies, liquidated damages at the rate of **0.5 percent per week** of delay with a maximum of **10 percent** of contract/order value will be levied.





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6. **PERFORMANCE SECURITY:** The firm has to submit a performance security of 10% of the total order value to be submitted from an Indian Scheduled Bank before release of final payment and after successful installation of the Equipment in the form bank guarantee valid for 2 months beyond the warranty period. If PBG is not submitted 10% payment of the total order value will be withheld, till such time. No interest will be payable by the Purchaser on the Performance Security deposited. In case supplier fails to provide satisfactory after sale service within the warranty period, the Performance Security submitted by the firm is liable to be forfeited. **PBG format.**
7. **DELIVERY:** Free delivery at SB 166B, Helium Building, IIT Indore in case of indigenous orders
8. Indicate mode of dispatch. Rail/Road/ Air/ Sea/Multimode.
9. In case Equipment offered requires maintenance after the expiry of the warranty, please indicate approximate cost of comprehensive and on call basis maintenance and also availability of local support or otherwise.
10. Please note clearly that faxed, mailed and opened quotations are liable to be rejected.



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#### CHAPTER- 7

#### PRICE BID

PRICE BID - Schedule of price bid in the form of BOQ format:

1. The below mentioned Financial Proposal/Commercial bid format is provided as BoQ along with this tender document at <https://eprocure.gov.in/eprocure/app>
2. **Bidders are advised to download this BoQ.xls** as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid.
3. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD shall be forfeited.
4. The tender shall remain valid for acceptance for **180 days**, from the date of tender opening.

#### OTHER CONDITIONS FOR PRICE BIDS

1. No unilateral revision in price will be admissible.
2. INCOTERMS (in case of imported item) should be clearly mentioned on the bid
3. Rates should be quoted in the accounting units (A/U) mentioned in this enquiry. Rates must be quoted clearly on free delivery basis at IIT Indore and total value is also indicated in words.
4. Any optional indicated in techno-commercial bids must be priced separately.
5. In case spares/accessories are applicable, their list and price should be clearly indicated separately.
6. The price must be stated for each item separately.
7. Bidder should ensure the quoted price is mentioned correctly as change in unit price or total price etc. will not be considered after opening of bids.
8. Bidder should quote the price inclusive of all the charges and no extra price will be considered later on.

Signature of Tenderer



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**Chapter 8**  
**TENDER ACCEPTANCE LETTER**  
(To be given on Company Letter Head)

To \_\_\_\_\_

Sub: Acceptance of Terms & Conditions of Tender. Tender Reference No: \_\_\_\_\_

Name of Tender / Work: - \_\_\_\_\_

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' 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 annexure(s), schedule(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/ organizations 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. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We do hereby declare that we have quoted our firm rates inclusive of taxes if not mentioned extra.
7. I/We agree to hold this offer open until **180 days** and shall be bound to supply/commission/install the equipment and dispatch the same within the specified period.
8. I/We agree to supply and commission/install the equipment and complete the whole of the work and hand over to the purchaser within the stipulated period, after receipt of intimation regarding acceptance of this tender/receipt of supply/service order.
9. **I/We agree that in case if we fail to deliver the goods/complete the work within the specified period, then institute shall be liable to claim liquidated damages from me/us by invoking EMD.**
10. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

IIT INDORE

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**CHAPTER- 9**  
**PERFORMANCE SECURITY FORMAT**

To

.....  
**WHEREAS** ..... (name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract no. .... dated .....to supply (description of goods and services) (herein after called "the contract").

**AND WHEREAS** it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

**AND WHEREAS** we have agreed to give the supplier such a bank guarantee:

**NOW THEREFORE** we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of ..... (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We further undertake to pay the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the supplier(s)/vendor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the supplier(s)/vendor(s) shall have no claim against us for making such payment.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the ..... day of ....., 20.....

(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

Phone No., Fax No. & e-mail id.