



**Indian Institute of Technology Bhilai (IIT Bhilai)**  
**GEC Campus, Old Dhamtari Road, Sejbahar, Raipur, Chhattisgarh, India – 492015**  
[www.iitbhilai.ac.in](http://www.iitbhilai.ac.in)

**NOTICE INVITING TENDER**

Indian Institute of Technology Bhilai (IIT Bhilai), an autonomous body under the Ministry of Education, Govt of India invites e-bid for “**Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**”. Tender Documents may be downloaded from Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)). Bidders are advised to submit duly filled bids as per the following schedule:

|   |   |
|---|---|
| Invitation for Bids (IFB) No & date             | IITBh/Goods/CIF/2022-23/138/R Dated: 30/03/2023   |
| Place of Supply etc.                            | Indian Institute of Technology Bhilai,<br>Kutelabhata, Khapri, Durg Dist. Chhattisgarh 491001,<br>INDIA   |
| Pre-bid Meeting date                            | April 05, 2023, 2.30 PM (Physical Mode or Google Meet)<br>All queries (including technical) related to pre-bid meeting, should be reached on or before 05/04/2023 11:00 AM through email.<br>Prior intimation is required for attending the pre-bid meeting either through physically or through Google Meet.<br>Interested bidders can request the Microsoft Teams meeting link at <a href="mailto:sp@iitbhilai.ac.in">sp@iitbhilai.ac.in</a>  |
| Bid Submission Start date                       | April 11, 2023, 1100 Hrs  |
| Last Date of Submission of Bids                 | April 24 , 2023, 1500 Hrs   |
| Date of Opening of Technical Bids               | April 25, 2023, 1515 Hrs  |
| Tender Fee & EMD                                | Tender Fee - Rs. 2,500/- should be paid using SBI i-collect Link<br><a href="https://www.onlinesbi.com/sbicollect/collecthome.htm?corpID=646425">https://www.onlinesbi.com/sbicollect/collecthome.htm?corpID=646425</a><br>Step1. Click Check Box to proceed for payment.<br>Step2. Select S and P Tender Fee and EMD.<br>Step3. Fill all Details and Submit<br>(This online payment receipt may be provided in the online Technical e-bid)<br>EMD - MSE's are exempted from the payment of EMD, MSME's should submit a Valid MSME certificate in manufacturing of <b>Single Crystal X-Ray Diffractometer in India.</b> |
| Place of Opening of Technical Bids              | Online - E-procurement Portal   |
| Contact information (Tender Inviting Authority) | The Registrar<br>Indian Institute of Technology Bhilai,<br>GEC Campus, Old Dhamtari Road,<br>Sejbahar, Raipur 492015, Chhattisgarh<br>Phone: +91-771-2973622,<br>Email: <a href="mailto:sp@iitbhilai.ac.in">sp@iitbhilai.ac.in</a><br>For technical enquiries:<br>Email: <a href="mailto:cif@iitbhilai.ac.in">cif@iitbhilai.ac.in</a>   |

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### CALL INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit their bids electronically on the CPP Portal using valid Digital Signature Certificates. Certain instructions are given below to guide the bidders for registration on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

#### Registration Process

- 1) If a bidder is not registered at the eProcurement portal, such bidder should enrol/register on the e-Procurement module of the portal <http://eprocure.gov.in/eprocure/app> by clicking on the link "Click here to Enrol". Enrolment on the CPP Portal is free of charge.
- 2) The bidders to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 3) Bidders to register upon enrolment their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India with their profile.
- 4) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse. *Foreign bidders are advised to refer "DSC details for Foreign Bidders" for Digital Signature requirements on the portal.*
- 5) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

#### Tender Documents Search

- 1) Various built in options are available in the CPP Portal to facilitate bidders to search active tenders by several parameters. These parameters include Tender ID, organization, location, date, value, etc.
- 2) There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 3) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 4) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

#### Bid Preparation

- 1) Bidder should also take into account of the corrigendum published related to the tender before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- 3) Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 4) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with **100 dpi with black and white option**.
- 5) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for the bid submission process.

#### Bid Submission

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

- 1) Bidder to log into the site well in advance for bid submission so that he/she uploads 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 to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder to select the payment option as "Off-line" to pay the tender fee/ EMD wherever applicable and enter details of the instrument in SBI i-collect.
- 4) A standard BoQ format has been also uploaded along with the tender document to be filled by all the bidders. Bidders to note that they should necessarily submit their financial bids in the prescribed format and no other format is acceptable.
- 5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data, which 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 for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is **0120-4200462, 0120-4001002, 0120-4001005**.

### **General Instructions to the Bidders**

- The tenders will be received online through the portal <https://eprocure.gov.in/eprocure/app>. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- Possession of 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'.

Tenderers are advised to follow the instructions provided in the 'Instructions to the Tenderers for the e-Submission of the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>.

### **LIST OF DOCUMENTS TO BE UPLOADED IN E-PROCUREMENT PORTAL**

- 1) Bidder should take into account notifications, corrigendum published, if any on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Any deviations from these may lead to rejection of the bid.
- 3) The two-bid system will be followed for this tender. In this system, online offer should be submitted under **TWO-BID System** in two separate e-packets i.e. **"Technical eBid" and "Commercial eBid"**.

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

### **Online Envelope No. 1: "Technical Bid" shall contain (Pdf format only)**

1. EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by the Department of Micro, Small and Medium Enterprises (MSME) / NSIC and Start-ups as recognized by the Department of Industrial Policy & Promotion (DIPP), Ministry of Commerce and Industry.  
Bidders not covered by para 1(a) of EMD, shall submit Bid Security Declaration as per the Government of India Order No. F.9/4/2020-PPD Dt. 12th November 2020. (Refer Format attached as Annexure - H.) The Exemption Certificate / Declaration should be enclosed in Technical Bid Only.  
Those firms, who are failing to submit the Valid MSME or Bid Security Declaration (As per annexure-), their bid will be summarily rejected.
2. A scanned copy of the Authorization letter with proper seal and signature of the authorised person (with name, designation, email id & contact no.), as per the format attached at Annexure – C.
3. A scanned copy of Certificate of Incorporation, Partnership Deed/ Memorandum and Articles of Association/ any other equivalent document showing date and place of incorporation, as applicable.
4. A scanned copy of the commercial bid without prices (prices blocked) and copy of commercial terms & conditions (in details) as included in the commercial bid. IIT Bhilai reserves the right to reject the bid in case of discrepancy observed in the unpriced commercial bid and the actual commercial bid.
5. A scanned copy of audited balance sheet or the certificate from a Chartered Accountant for the financial year 2020-21, 2019-20 and 2018-19 indicating the annual sales turnover of the bidder. Bidder firm should not have suffered any financial loss for more than one year during the last three years, ending on 'The Relevant Date'.
6. The detailed technical specification, make, model, part number & compliance of each item offered supported by the printed catalogue/ leaflet published by the Principal Manufacturer.
7. Undertaking to the effect that a Performance Guarantee of 3% of the order value will be submitted in case IIT Bhilai decides to place the Purchase Order.
8. Undertaking to the effect that the terms and conditions, clauses etc. stipulated in this tender are acceptable.
9. Other documents necessary in support of eligibility criteria (as per Section-II - Instructions to Bidders-ITB), product catalogues, brochures etc.

*IIT Bhilai reserves the right to reject the bid if any of the above listed document/s is not submitted.*

### **Online Envelope 2: "Commercial Bid" shall contain**

- 1) The Commercial Bid should be filled properly in the .xls uploaded in eProcurement portal
- 2) In case the bidder requires any clarifications/ information, they may write to [sp@iitbhilai.ac.in](mailto:sp@iitbhilai.ac.in).
- 3) Commercial bids of the technically qualified bidders only will be opened in the eProcurement portal.
- 4) Commercial bids must be offered in the format attached.
- 5) The applicable exact rates of Taxes will be added as per the format attached.
- 6) In case of any mistake or error in calculations or any discrepancy in price quoted in words and figures, the LOWEST amount will be considered for comparison. If this lowest price is not acceptable to the bidder, their bid will be rejected. In this case, IIT Bhilai reserves the right to forfeit their EMD.
- 7) IIT Bhilai reserves the right to place part orders.

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### SECTION-I: INSTRUCTIONS TO BIDDERS (ITB)

#### 1. Locations for the Supply and Installation & Warranty Services

The entire products as described in Schedule of Requirements at **Section - V** must be supplied, installed & supported at Indian Institute of Technology, Bhilai permanent campus.

2. All the items covered in the Schedule of Requirements at Section – V must be supplied within 22-24 weeks from the date of placement of work/ purchase order. Supplier should complete the installation within 30 days from the date of delivery of the equipment.

#### 3. Amendment to Bidding Documents

3.1 At any time prior to the deadline for submission of bids, IIT Bhilai may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.

3.2 The amendments to the tender documents, if any, will be notified by release of Corrigendum Notice on the institute website against this tender. The amendments/ modifications will be binding on the bidders.

3.3 IIT Bhilai at its discretion may extend the deadline for the submission of bids if it thinks necessary to do so or if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into consideration the amendments while preparing their bids.

#### 4. Preparation of Bids

Bidder should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the bid documents. In case however, any corrections, overwriting, erasures or postscripts have to be made in the bids, they should be supported by dated signatures of the same authorized person signing the bid documents. However, bidder shall not be entitled to amend/ add/ delete/ correct the clauses mentioned in the entire tender document.

#### 5. Forfeiture of EMD

5.1 In case of the bidder whose offer is accepted, the EMD will be returned on submission of Security Deposit. However, if the return of EMD is delayed for any reason, no interest/ penalty shall be payable to the bidder.

5.2 The successful bidder, on award of contract/ order, must send the contract/ order acceptance in writing, within 15 days of award of contract/ order, failing which the EMD will be forfeited and the order will be cancelled.

5.3 If the bidder withdraws the bid during the period of bid validity specified in the tender.

#### 6. Period of validity of bids

6.1 Bids shall be valid for minimum 180 days from the date of submission. A bid valid for a shorter period shall stand rejected.

6.2 IIT Bhilai may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. The bidder is free not to accept such requests without forfeiting the EMD/ BG. A bidder agreeing to the request for extension will not be permitted to modify his bid.

#### 7. Deadline for Submission of Bids – online only

7.1 The Bid documents shall be neatly arranged. They should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid. *The conditional bid will be summarily rejected.*

7.2 Bids must be received by IIT Bhilai before the due date and time at the address specified in the tender document.

7.3 IIT Bhilai may extend this deadline for submission of bids by amending the bid documents and the same shall be suitably notified on its website.

7.4 IIT Bhilai shall not be responsible and liable for **the delay in receiving the bid** for whatsoever reason.

#### 8. Bid Opening & Evaluation of Bids

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

- 8.1 The technical bids will be evaluated in two steps.
  - a. The bids of eligibility bidders only will be evaluable based on eligibility criteria mentioned in Section III of the tender documents.
  - b. The technical bids of only the shortlisted eligible bidders shall be evaluated based on technical specifications stipulated at Section – V
- 8.2 The bidders whose technical bid is found to meet both the requirements as specified above will qualify for opening of the commercial bid.
- 8.3 The duly constituted Tender Evaluation Committee (TEC) shall evaluate the bids. The TEC shall be empowered to take appropriate decisions on minor deviations, if any.
- 8.4 The bidder's name, bid prices, discounts and such other details considered as appropriate by IIT Bhilai, will be announced at the time of opening of the commercial bids.

### **9. Comparison of Bids**

- 9.1 Only the short-listed bids from the technical evaluation shall be considered for commercial comparison.
- 9.2 The bids shall be evaluated on the basis of total price quoted for Sl. No. 1 to 7 in the Commercial bid.
- 9.3 The bids shall be evaluated on the basis of the total prices including all taxes and duties as per the details mentioned in section I (10.2) and section VI (8).

### **10. Purchase Order**

- 10.1 IIT Bhilai shall issue purchase order to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated commercial bid based on the Grand Total calculated of all items as mentioned in section VI(8) + taxes of the Commercial Bids. However, IIT Bhilai reserves the right and has sole discretion to reject the lowest evaluated bid.
- 10.2 If more than one bidder happens to quote the same lowest price, IIT Bhilai reserves the right to decide the criteria and further process for awarding the contract, decision of IIT Bhilai shall be final for awarding the contract.

### **11. End User Certificate (if applicable)**

IIT Bhilai can provide end user certificate in advance in order to save on time/ delivery period. However, this does not mean that the order shall be placed on the same bidder. The bidder may submit the format of end user certificate at the earliest, preferably along with the technical bid.

### **12. Purchaser's Right to amend / cancel**

- 12.1 IIT Bhilai reserves the right to amend the eligibility criteria, commercial terms & conditions, Scope of Supply, technical specifications etc.
- 12.2 IIT Bhilai reserves the right to cancel the entire tender without assigning any reasons thereof.
- 12.3 IIT Bhilai reserves the right to place part orders.

### **13. Corrupt or Fraudulent Practices**

- 13.1 It is expected that the bidders who wish to bid for this project have the highest standards of ethics.
- 13.2 IIT Bhilai will reject bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract.
- 13.3 IIT Bhilai may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the award / execution of contract.

### **14. Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, the interpretation of the clauses by Director, IIT Bhilai shall be final and binding on all parties.

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

**\*\*\*(END OF SECTION I)\*\*\***

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### SECTION-II: ADDITIONAL INSTRUCTIONS TO BIDDERS (AITBs)

- (a) Delivery: The items be supplied within 22-24 weeks from the date of receipt of the Purchase Order.
- (b) Installation: Installation should be completed within 30 days from the date of supply or as per the instructions of IIT Bhilai, whichever is later
- (c) Authorization certificate from all the original equipment manufacturers stating their support for the vendor during the equipment warranty period. Warranty of each component should be mentioned separately, if applicable.
- (d) The Competent Authority reserves the right to reject any or all bids, amend/withdraw any terms and conditions in the Tender document or to cancel the Tender at any stage without assigning any reason.**

**\*\*\*(END OF SECTION II)\*\*\***



## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### SECTION-III: ELIGIBILITY AND QUALIFICATION CRITERIA

1. The bidder must be either OEM or authorized dealers or resellers of the original manufacturer of the proposed equipment in India. Both cannot bid simultaneously for the same item/ product in the same tender.
2. The bidder must have supplied a similar system/ setup in at least 3 Indian Institutes of Technology (IITs) or Centrally Funded Technical Institutes (CFTIs). Complete list along with the contact details of the customers must be provided. Feedback from the users will be sought by the IIT Bhilai, if felt necessary.
3. The bidder must have a minimum annual average turnover of Rs. 15 crores during the last three financial years. All bidders should submit copies of the audited Statement of Accounts for those three years along with the Tender document.
4. The bidder must submit *certification from the relevant agency(ies)* for using the instrument in India.
5. The committee reserves the right to reject the technical bid if this condition is not satisfied.
6. Committee also reserves the right to modify the stipulated eligibility criteria at any time during the tenure of procurement.

A certificate (Affidavit) to be signed by MD / CEO of the company that they haven't been debarred or blacklisted for any services, supplies or products dealing in, by any organizations or educational Institute/ University or state/ central government and no criminal case/legal proceeding or industrial dispute is pending or contemplated against them

If in the view of bidder, any exemption/ relaxation is applicable to them from any of the eligibility requirements, under any Rules/ process/ Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption/ relaxation, quoting the valid Rule/ process/ Guidelines/ Directives. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in support of his claim. The applicability of exemptions and /or validity of documents submitted by the bidders will be evaluated by the bid evaluation committee during technical evaluation of bids.

**Note:** *The bidders should provide sufficient documentary evidence to support the eligibility Criteria. IIT Bhilai reserves the right to reject any bid not fulfilling the eligibility criteria.*

**\*\*\* (END OF SECTION III) \*\*\***

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

### **SECTION-IV: GENERAL CONDITIONS OF CONTRACT (GCC)**

#### **1. Prices**

- 1.1 Prices should be quoted only preferably in FOR IIT Bhilai Basis and should be inclusive of all taxes and duties.
- 1.2 The statutory taxes and duties applicable at the time of supply of material shall be applicable and will be reimbursed on submission of requisite documents/ proofs as the relevant Government Notification.
- 1.3 In case due to any error/ oversight, the GST quoted by the bidder is less than the actual rate as per tariff, the bidder will not be permitted to rectify the error/oversight. The orders/ contract will be placed for the total amount including the (lower) rate/s quoted by the bidder, with reduced basic amount to the extent of difference in tax/duty amount, so that the total amount (basic + actual rate as per tariff), remains same(quoted basic + quoted rate). The difference amount payable, if any, between the quoted rate and actual rate as per tariff (without exemption) shall be borne by the bidder. The exemption certificate, if applicable, will be issued for the reduced basic amount only.

#### **2. Software Licenses**

The software licenses, if any, shall be required in the name of the user. The licenses shall contain paper licenses and at least one set of media (CDs) – wherever applicable. All software licenses quoted should be of perpetual.

#### **3. Performance Bank Guarantee (PBG)**

The successful bidder has to submit performance security for an amount of 3% of the order value in the form of BG from any nationalized bank within 14 (Fourteen) days from the date of award of contract and should be valid for 60 days beyond the date of completion of all contractual obligation including warranty obligation. And it will be returned after 60 days beyond the warranty period.

#### **4. Completeness Responsibility**

Notwithstanding the scope of work, engineering, supply and services stated in bid document, any equipment or material, engineering or technical services which might not be even specifically mentioned under the scope of supply of the bidder and which are not expressly excluded there from but which – in view of the bidder - are necessary for the performance of the equipment in accordance with the specifications are treated to be included in the bid and has to be performed by bidder. The items which are over & above the scope of supply specified in the Schedule of Requirements may be marked as “Optional Items”.

#### **5. Warranty**

Detailed warranty clause is mentioned in point no. 18 in the page no. 17.

#### **6. Training:**

Detailed training clause is mentioned in point no. 13 in the page no. 16.

#### **7. Payments**

- 7.1. For INR Payment by NEFT – 100% against delivery, Installation, commissioning, acceptance by IIT Bhilai and submission of Performance bank Guarantee within 30 Days.
- 7.2. For foreign currency payments: 90% of the payment will be made through irrevocable Letter of Credit (LC). Balance 10% on successful installation, commissioning and acceptance by IITBh through LC, any loss due to fluctuation in foreign exchange rates will be at the beneficiary account. The LC operating charges inside India will be to IITBh account and those outside India will be to the beneficiary account. The LC confirmation charges & LC amendment charges, if requested/ required, will be to the beneficiary account.
- 7.3. Payments towards AMC shall be paid at the end of each quarter/ year.

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

### **8. Ship to**

The Director,  
Indian Institute of Technology Bhilai,  
Kutelabhata, Khapri,  
Durg District, Chhattisgarh 491001, INDIA

### **9. Liquidated Damage**

IIT Bhilai reserves the right to levy penalty @ of 0.5 % of order value per week of delay in supply and /or installation, beyond the schedule as mentioned in this tender document subject to maximum of 10% of the order value. IIT BHILAI reserves the right to cancel the order in case the delay is more than 06 weeks. The delay in delivery and/or installation not attributed to supplier viz. delay in site preparation, delay in submission of required documents etc. and the conditions arising out of Force Majeure will not be considered for the purpose of calculating penalties.

### **10. Force Majeure**

IIT Bhilai may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states / state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises or any other act beyond control of the bidder.

### **11. Arbitration**

All disputes/claims of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. under this Contract, shall be referred by either party (IIT Bhilai or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to the Sole Arbitrator appointed by IIT Bhilai. The venue for arbitration shall be specified in the purchase order/agreement. The arbitration proceedings shall be conducted in English and as per the provisions of Indian Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

### **12. Jurisdiction**

The disputes, legal matters, court matters, if any shall be subject to Raipur jurisdiction only.

### **13. Indemnity**

Selected bidder shall save, indemnify and hold harmless IIT Bhilai from any third-party Govt. Claims, losses penalties, if any, arising in connection with this Contract.

### **14. Assignment**

Selected bidder/ Party shall not assign, delegate or otherwise deal with any of its rights or obligations under this Contract without prior written permission of IIT Bhilai.

### **15. Severability**

If any provision of this Contract is determined to be invalid or unenforceable, it will be deemed to be modified to the minimum extent necessary to be valid and enforceable. If it cannot be so modified, it will be deleted and the deletion will not affect the validity or enforceability of any other provision.

### **16. Unloading**

The bidder should ensure to unload all the materials (equipment and other related accessories etc) to the installation site at IIT Bhilai. Unloading of the goods at IIT Bhilai is the responsibility of the bidder. Manpower, Crane, Trolley and Fork lift facilities should be arranged by the supplier only.

**\*\*\* (END OF SECTION IV) \*\*\***

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### SECTION – V: SCHEDULE OF REQUIREMENTS

| S.No. | Particulars of the item required  | Qty Required |
|-------|---|--------------|
| 1     | Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai | 1 No         |

#### TENDER SPECIFICATIONS FOR SINGLE CRYSTAL X-RAY DIFFRACTION SYSTEM:

A state-of-the-art completely automated floor-mounted single-crystal X-ray diffractometer (SCXRD) designed for structure determination of a wide range of organic, inorganic, metal-organic, MOFs and metal clusters, etc. Such an instrument should be optimally configured to achieve the best quality data from small, weakly diffracting crystals with significantly large unit cells (~50 Å) and/or with additional complexities in terms of twinning, disorder, etc. This ideally needs a combination of a small, highest-intensity X-ray beam coupled with single photon sensitive large area detector. The system should be fully contained within an X-ray safety enclosure as per the highest international standards and with sufficient internal space. The details of the technical requirements and specifications of the system are given below.

#### 1. SAFETY AND GENERAL SPECIFICATIONS:

As per the highest international standards, fully X-ray protected enclosure safety system is essential with maximum radiation level 1 micro-Sievert/h under measurement conditions. Major components of the diffractometer like the detector, source and goniometer must have been developed in house by the supplier and efficiency and working capability of these components must be proven from installations in other institutions in India and abroad.

The offered SC-XRD system model should preferably comply with the latest machinery directive, for electrical equipment and electromagnetic compatibility under fully CE compliant guidelines (or equivalent).

#### 2. X-RAY GENERATOR & TUBE:

The system should be equipped with computer controlled, automated with high stability Molybdenum X-ray source with a power output of 50W or more. The X-ray source should comply with the world's strictest safety regulations. A crucial element for achieving this standard is an X-ray safe heavy duty main shutter. The generator should be highly stable and reliable; X-ray tube temperature protection and ethernet interface as accessories should be available.

Maintenance: Stable intensity with long tube life and very minimum or no maintenance. Any repair work or replacement of spares needs to be done on site, the manufacturer of the XRD must confirm this in their quotation. To minimize the downtime the entire source shall maintain a minimum of 80% of the specified intensity for at least 5 years after installation.

Optics: High precision multilayer type optics should operate under vacuum to prevent radiation damage of the mirrors and to give long term stability. It should deliver a monochromatic X-ray beam of spectral purity >95% for Mo K-alpha.

Specifications for Mo K $\alpha$  source:

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

- Beam Divergence (mrad):  $\leq 5.0$
- Beam size (mm):  $\sim 0.100 - 0.110$
- Flux density / Beam Intensity [ $\text{ph}/(\text{s}\cdot\text{mm}^2)$ ] Mo K $\alpha$ :  $\geq 3 \times 10^9$  or better

Maintenance: any repair work or replacement of spares needs to be done on site, the manufacturer of the XRD must confirm this in their quotation. To minimize downtime the entire source shall maintain a minimum of 80% of the specified intensity for at least 5 years after installation.

### 3. GONIOMETER:

The diffractometer should be equipped with a fully automated high precision four circle horizontal Kappa-goniometer. The goniometer must be built in such a way that the extended directions of the axes intersect at a point, with an error not greater than 7 microns. The sample to the detector distance should be variable under computer control over a range of at least 40–200 mm or longer. The goniometer should have a very high angular precession and an angular coverage of minimum  $150^\circ 2\Theta$  or more. The diffractometer system should be automatically controlled by the system software. Any diffractometer damage through ‘collisions’ should be prevented by provisions taken in software and ideally using real-time system positional monitoring.

### 4. DETECTOR:

The system should be equipped with (HPC/C-PAD) state-of-the-art large active area X-ray detector for detecting the diffracted X-rays and accurately measuring their intensities of diffraction pattern from single crystal. The CPAD detector must work in a mixed mode operating system and must support both photon counting and charge integration mode for the best sensitivity and dynamic range. The (CPAD) detector should also support destructive read out (DR) and non-destructive read out (NDR). It should operate in photon-counting mode (Hybrid photon-counting or Charge Integrating Pixel Array detector) to achieve the highest detector sensitivity and superior spatial resolution for closely spaced reflection generated by large unit cell and twin crystals. The Detector should operate under shutter-less mode for continuous and fast data collection.

Technical information should be explicitly detailed in the quote.

- The active area should be, at least  $120 \text{ cm}^2$  or larger
- Dynamic range of the detector should be better than  $> 2 \times 10^5$
- Dynamic Quantum Efficiency (DQE) of more than 60% for molybdenum
- Point spread function (PSF):  $\leq 1$  pixel (FWHM)
- Pixel size should be equal or less than  $172\mu\text{m} \times 172\mu\text{m}$

### 5. VIDEO MICROSCOPE AND ILLUMINATION:

The system must include a color video microscope to magnify the crystal, to capture screen frames and to measure and index crystal faces coupled with provided software for the required motion video. For numerical absorption correction, the software should allow the indexing of crystal faces by interactive use of video pictures or movies of the crystal investigated.

### 6. INTEGRATED SOFTWARE:

a. WINDOWS / LINUX based application software for data acquisition and processing, structure

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

solution (automatic and or manual), refinement and instrumental control for single crystal, twins, low/high temperature, high pressure, face indexing, charge density and modulated structure.

b. The software should be able to perform complete data acquisition, absorption correction, scaling, space group determination, structure determination and final report generation as per Acta Crystallographica guidelines.

c. For data collection strategies, the software shall have predefined runs including Sphere, Hemisphere and Quadrant. Optimized runs shall provide for completeness/coverage as well as the facility for user defined runs.

d. Software shall allow easy change of exposure time, scan ranges, scan width and detector distance and provide automatic re-measurement of overflow frames, automatic dark image acquisition and optional reference frames for tracking decaying samples.

e. Integration of data sets collected with variable exposure times for different angular range or resolution windows.

f. The offered software must include software for structure determination. The offered data acquisition software package must be compatible with recent SHELX, WinGX and SADABS, CrysAlisPro or its equivalents.

g. The quoted software license should be unlimited and can be installed on any number of PCs within IIT Bhilai campus and future upgradation should be free. No public domain software is acceptable.

h. Auto structure solution software

i. CSD enterprise (or better) should be provided with at least one license.

### 7. COMPUTER:

The Diffractometer Instrument should come with **two** PCs (one for data collection and one for data processing) with Factory /Locally loaded Software. Specifications of the data processing PCs should be the following or better:

#### One PC:

Core i7-latest generation processor

16 GB RAM

256 GB SSD

2.0 TB hard disk drive

27" LED monitor

US/INT-keyboard

Optical mouse

SATA DVD-RW

Operating System: Windows 7/10 Professional 32/64 Bit, English (preloaded)

27" LED Monitor Full HD 1920X1080 Resolution

Wifi connectivity

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

Microsoft Office License

### Another PC:

Core i5 latest generation Processor

32GB DDR4 RAM

4GB Dedicated Graphics Card

1TB SSD

Operating System: Windows 11 Professional 64 bit Preloaded

DVD Writer

USB KB + Optical Mouse

27" LED Monitor Full HD 1920X1080 Resolution

Wifi connectivity

Microsoft Office License

|   |   |
|---|---|
| <p><b>8. CRYO CRYSTALLOGRAPHY ACCESSORY</b></p> | <p>The equipment should include a crystal temperature attachment to cover the temperature range of <b>80 – 400 K</b>, with a stability of +/- 0.1 K equipped with liquid nitrogen Dewar of minimum 60 L Liters capacity, pressure regulator, transfer line and necessary accessories. Additionally, an Auto-Pressurized Dewar of <b>150L</b> capacity or more has to be provided for liquid nitrogen storage.</p>   |
| <p><b>9. ESSENTIAL ACCESSORIES:</b></p>         | <ul style="list-style-type: none"> <li>● Goniometer Heads: 2 No's of Goniometer head with strong magnetic base</li> <li>● Test crystals: 1 No</li> <li>● 40 – Dual-Thickness MicroMounts™ (M2-L18SP-A1 + M2-L18SP-A2), with 5 each of 10, 20, 30, 50, 75, 100, 150, and 200 μm apertures</li> <li>● 20 – GB-B3-R Style Reusable Goniometer Bases</li> <li>● 10 – Magnetic Cryovials</li> <li>● 2 – 4oz. Bottle of NVH Oil</li> <li>● 1 – Baseholder and Protective Storage Case</li> <li>● 1 – pair heavy-duty tweezers, for inserting the MicroMounts™ into the bases</li> </ul> |
| <p><b>10. MICROSCOPE:</b></p>                   | <p>An appropriate latest generation stereo microscope (Leica or Carl Zeiss or Nikon, or Olympus make) for crystal mounting should be quoted with a min of the following specs</p> <ul style="list-style-type: none"> <li>● 8:1 Optical zoom</li> <li>● 0.8-8X zoom optics</li> <li>● Eyepiece 10X</li> </ul>  |

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

|  |   |
|--|---|
|  | <ul style="list-style-type: none"> <li>● Working distance 80 – 95mm or better</li> <li>● Polarizer &amp; Analyzer set</li> <li>● Digital color camera with high-resolution - 10 MP external camera with support software to see the images in the computer.</li> <li>● Software should support the capture of images and videos using this camera.</li> </ul>   |
| <p><b>11. POWER BACK-UP</b></p>                  | <p>Reputed and established brand of UPS with 5 kvA or better with SMF batteries for the complete SC-XRD system, PCs, and Peripherals with excellent service support credentials.</p> <p>The whole system (including the chiller or any other accessories if any) should run at least 30 mins or more without any power backup.</p>  |
| <p><b>12. INSTALLATION AND TRAINING</b></p>      | <p>Installation and training should take place at IIT Bhilai Site. The expenditure involved in it will be borne by the supplier. The training should be conducted twice per year for the first 2 years and once a year for the next 3 years.</p> <p>This training should be quoted separately as follows.</p> <p>On-site application training for a minimum of 06 days by the company-designated application scientist for a group of technical staff/students for operating the instrument to complete structure determination/solution, including software learning.</p> <p>This training should include at least 04 days of training in solving the crystal structures from the raw data and at least 02 days of training on the hardware.</p> |
| <p><b>13. MANPOWER FOR THE MEASUREMENT</b></p>   | <p>A well-qualified operator should be quoted with a year-wise break-up for 5 years.</p> <p>This operator should take care of both single-crystal XRD and in-house powder XRD systems.</p>  |
| <p><b>14. PRE-INSTALLATION REQUIREMENT</b></p>   | <p>Necessary pre-installation advice should be enclosed along with the technical bid.</p> <p>A site visit should be conducted before the installation of the system.</p>  |
| <p><b>15. MANUALS AND INSTRUCTION SHEETS</b></p> | <p>All the manuals including circuit Diagrams and instruction sheets must be supplied in English for the purpose of service engineer's reference. The offered SCXRD system model should preferably comply with the latest machinery directive, for electrical equipment and electromagnetic compatibility</p>   |



## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

|                                    |  |
|------------------------------------|--|
|                                    | under fully CE compliant guidelines (or equivalent).   |
| <b>16. WARRANTY:</b>               | <p>The equipment (including all spares and accessories) should have a minimum of 5-year comprehensive warranty from the date of successful installation of the system, against manufacturing defects of material and workmanship. The warranty replacement, if any, should be supplied on DDP (Delivered Duty Paid) basis.</p> <p>Technical issues with the system must be addressed within 72h. In case the parts are required to be imported for repairs, the same should be made available within 2 weeks from the date of reporting the issue. Any extension in this instrument's downtime will need to be compensated by the manufacturer by extending the comprehensive warranty by the excess period taken (i.e., the period beyond 2 weeks) in completing the repairs.</p> |
| <b>17. USERS LIST</b>              | List of the current minimum 5 users of SCXRD in India, manufactured by the bidder should be provided.  |
| <b>Optional Accessories</b>        |  |
| <b>18. DIAMOND ANVIL CELL</b>      | At least 30 GPa pressure   |
| <b>19. AMC</b>                     | 3-year AMC (year-wise) after warranty period   |
| <b>20. GONIOMETER HEAD</b>         | Automated goniometer head for automatic centering of the crystal.  |
| <b>21. ADDITIONAL X-RAY SOURCE</b> | An additional source that is quoted with the main system above should be quoted. This additional source should be supplied on demand within the next five years after the successful installation of the system.   |

**Note: Bidder must submit a technical compliance sheet (with bidder specification, deviation & justification) and all the relevant documents to ensure that the technical specifications are compiled & all the conditions are fulfilled.**

**Note: For Technical Queries contact: [cif@iitbhilai.ac.in](mailto:cif@iitbhilai.ac.in)**

Authorized Signatory:  
(Signature of the Bidder, with Official Seal)

\*\*\* (END OF SECTION V) \*\*\*

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### **SECTION – VI PRICE BID**

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

1. 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. **Any element of cost, taxes, duties levies etc. not specifically indicated in the BOQ, shall not be paid by the purchaser. If GST amount is not quoted in the BOQ (Financial Bid), the total cost will be treated as inclusive of GST. No further communication will be entertained later or else the EMD will be forfeited.**
5. 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. Rates should be quoted in the accounting units (A/U) mentioned in this tender. Rates must be quoted clearly on a free delivery basis at IIT Bhilai and total value is also indicated in words.
3. Any optional indicated in techno-commercial bids must be priced separately.
4. In case spares/accessories are applicable, their list and price should be clearly indicated separately.
5. The price must be stated for each item separately. The percentage of reduction, in the unit price should also be quoted, should an order to that extent be placed with you.
6. The bids shall be evaluated on the basis of price quoted (Including GST) for Sl. No. 1 to 7 in the Commercial bid. Price quoted for the Sl. No. 8 to 11 will be optional and will not be taken into consideration in deciding the L1 Bidder.
7. Any information related to essential accessories or optional accessories should be mentioned in the remarks column.

Signature of the Tenderer

Seal:

\*\*\*(END OF SECTION VI)\*\*\*

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### SECTION –VII ANNEXURES (STANDARD FORMATS)

#### ANNEXURE A

#### TENDER ACCEPTANCE LETTER

(To be submitted on Company Letter Head)

Date: \_\_\_\_\_

To,

**The Director  
Indian Institute of Technology Bhilai,  
GEC Campus Sejbahar,  
Raipur 492015 Chhattisgarh**

**SUB:** Acceptance of Terms & Conditions of Tender.

**Tender Reference No./ Date:**

**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: [www.iitbhilai.ac.in](http://www.iitbhilai.ac.in), <http://eprocure.gov.in/eprocure/app> as per your NIT / 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 (including all documents like annexure(s), schedules(s), etc.), which form part of the contract agreement and I / We shall abide hereby by the terms / conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organization too has 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 our firm will submit the Performance Bank Guarantee for 3% PO Value within two weeks from the date of award of contract, if Contract is awarded to our firm.
7. I / We certify that all information furnished by 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 fully said earnest money deposit absolutely.

Yours Faithfully,

Authorized Signatory:  
(Signature of the Bidder, with Official Seal)

#### ANNEXURE B

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### AUTHORITY LETTER

#### AUTHORIZATION

We \_\_\_\_\_ (name of the bidder) hereby authorise Shri / Smt. \_\_\_\_\_ (name of the authorised person) to sign and submit the bid to IIT Bhilai against their Tender No. \_\_\_\_\_ dated \_\_\_\_\_. Shri / Smt. \_\_\_\_\_ (name) is also authorised to negotiate the terms and conditions pertaining to the said tender on behalf of M/s \_\_\_\_\_ (name of bidder). The specimen signature of Shri / Smt. \_\_\_\_\_ (name) is appended below.

Specimen Signature:  
Name:

The undersigned is authorised to delegate the authority on behalf of M/s \_\_\_\_\_ (name of bidder), as stipulated above

For \_\_\_\_\_  
(name of bidder)

Signature & Company Seal:  
Name:  
Designation:  
Email:  
Mobile No.:

**Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

**ANNEXURE C**

**SUMMARY INFORMATION SHEET**

| <b>Sr. No.</b> | <b>Information heading</b>  | <b>Details</b> |
|----------------|---|----------------|
| 1              | Name of the Vendor  |                |
| 2              | Name of the person(s) to whom, all references shall be made, regarding this TENDER/PROJECT (Authorized Signatory) |                |
| 3              | Address of the Contact Person   |                |
| 4              | Designation of the Contact Person   |                |
| 5              | Telephone number(s) of the Contact Person.  |                |
| 6              | Mobile number of the Contact Person   |                |
| 7              | Fax number of the Contact Person  |                |
| 8              | Email ID(s) of the Contact Person   |                |
| 9              | Annual Turnover (in Lakhs): Last three Years (In INR)   | 1)<br>2)<br>3) |
| 10             | Years of Operation (in Years):  |                |
| 11             | PAN Number  |                |
| 12             | GSTN  |                |
| 13             | Bank Name and Account No.   |                |
| 14             | IFS Code  |                |

Authorized Signatory:  
(Signature of the Bidder, with Official Seal)

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### ANNEXURE D

#### PROFORMA OF BANK GUARANTEE

(on non-judicial paper of appropriate value)

To,

**The Director  
Indian Institute of Technology Bhilai,  
GEC Campus, Old Dhamtari Road  
Sejbahar, Raipur 492015 Chhattisgarh**

BANKS GUARANTEE NO:

DATE:

Dear Sir(S)

This has reference to the Purchase Order No.\_\_\_\_Dated\_\_\_\_\_been placed by Indian Institute of Technology Bhilai (IIT Bhilai), Raipur on M/s\_\_\_\_\_(Name & Address of Bidder) for supply, installation, commissioning and warranty of\_\_\_\_\_(description of items) at client's site.

The conditions of this order provide that the Bidder shall,

1. Arrange to deliver the items listed in the said order to the consignee, as per details given in said order, and
2. Arrange to install and commission the items listed in said order at client's site, to the entire satisfaction of IIT Bhilai and
3. Arrange for the comprehensive warranty service support towards the items supplied by Bidder on site as per the warranty clause in said purchase order.

M/s (Name of bidder) has accepted the said purchase order with the terms and conditions stipulated therein and have agreed to issue the performance bank guarantee on their part, towards promises and assurance of their contractual obligations vide the Supply Order No.\_\_\_\_M/s.\_\_\_\_(name of vendor) holds an account with us and has approached us and at their request and in consideration of the promises, we hereby furnish such guarantees as mentioned hereinafter.

IIT Bhilai shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other undertaking of security in respect of the suppliers obligations and / or liabilities under or in connection with the said contract or to vary the terms vis-a – vis the supplier or the said contract or to grant time and or indulgence to the supplier or to reduce or to increase or otherwise vary the prices or the total contract value or to forebear from enforcement of all or any of the obligations of the supplier under the said contract and/or the remedies of IIT Bhilai under any security now, or hereafter held by IIT Bhilai and no such dealing(s) with the supplier or release or forbearance whatsoever shall have the effect of releasing the bank from its full liability of IIT Bhilai hereunder or of prejudicing right of IIT Bhilai against the bank.

This undertaking guarantee shall be a continuing undertaking guarantee and shall remain valid and irrevocable for all claims of IIT Bhilai and liabilities of the supplier arising up to and until\_(date).

This undertaking guarantee shall be in addition to any other undertaking or guarantee or security whatsoever the that IIT Bhilai may now or at any time have in relation to its claims or the supplier's obligations/ liabilities under and / or in connection with the said contract and IIT Bhilai shall have the full authority to take recourse to or enforce this undertaking guarantee in preference to the other undertaking or security(ies) at its sole discretion and no failure on the part of IIT Bhilai in enforcing or requiring enforcement of any other undertaking or security shall have the effect of releasing the bank from its full liability hereunder.

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

We\_\_\_\_(Name of Bank) hereby agree and irrevocably undertake and promise that if in your (IIT Bhilai's) opinion any default is made by M/s\_\_\_\_(Name of bidder) in performing any of the terms and /or conditions of the agreement or if in your opinion they commit any breach of the contract or there is any demand by you against M/s\_\_\_\_(Name of bidder), then on notice to us by you, we shall on demand and without demur and without reference to M/s\_\_\_\_(Name of bidder), pay you, in any manner in which you may direct, the amount of Rs.\_\_\_\_\_-/- (Rupees\_\_\_\_\_Only ) or such portion thereof as may be demanded by you not exceeding the said sum and as you may from time to time require. Our liability to pay is not dependent or conditional on your proceeding against M/s\_\_\_\_(Name of bidder) and we shall be liable & obligated to pay the aforesaid amount as and when demanded by you merely on an intimation being given by you and even before any legal proceedings, if any, are taken against M/s\_\_\_\_\_(Name of bidder)

The Bank hereby waives all rights at any time inconsistent with the terms of this undertaking guarantee and the obligations of the bank in terms hereof shall not be anywise affected or suspended by reason of any dispute or disputes having been raised by the supplier (whether or not pending before any arbitrator, Tribunal or Court) or any denial of liability by the supplier or any order or any order or communication whatsoever by the supplier stopping or preventing or purporting to stop or prevent payment by the Bank to IIT Bhilai hereunder.

The amount stated in any notice of demand addressed by IIT Bhilai to the Bank as claimed by IIT Bhilai from the supplier or as suffered or incurred by IIT Bhilai on the account of any losses or damages or costs, charges and/or expenses shall as between the Bank and IIT Bhilai be conclusive of the amount so claimed or liable to be paid to IIT Bhilai or suffered or incurred by IIT Bhilai, as the case may be and payable by the Bank to IIT Bhilai in terms hereof.

You (IIT Bhilai's) shall full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contact with the said M/s\_\_\_\_\_(Name of bidder) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s\_\_\_\_\_(name of bidder) which under law relating to the sureties would but for the provisions have the effect of releasing us.

You will have full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s\_\_\_\_\_(Name of bidder) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s\_\_\_\_\_(Name of bidder) which under law relating to the sureties would but for the provisions have the effect of releasing us.

Your right to recover the said sum of Rs.\_\_\_\_\_-/- (Rupees\_\_\_\_only) from us in manner aforesaid will not be affected/ or suspended by reason of the fact that any dispute or disputes have been raised the said M/s\_\_\_\_\_(Name of bidder) and/ or that any dispute or disputes are pending before any officer, tribunal or court or Arbitrator.

The guarantee herein contained shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the said M/s\_\_\_\_\_(Name of bidder) but shall in all respects and for all purposes be binding and operative until payment of all dues to IIT Bhilai in respect of such liability or liabilities.

Our liability under this guarantee is restricted to Rs.\_\_\_\_\_-/- (Rupees\_\_\_\_\_Only). Our guarantee shall remain in force until unless a suit action to enforce a claim under guarantee is filed against us within six months from (which is date of expiry of guarantee) all your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

We have power to issue this guarantee in your favour under Memorandum and Articles of Association of our Bank and the undersigned has full power to do under the power of Attorney dated.

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

Notwithstanding anything contained herein:

- a) Our liability under this guarantee shall not exceed Rs\_\_\_\_(in words)
- b) This bank guarantee shall be valid up to\_& unless a suit for action to enforce a claim under guarantee is filed against us within six months from the date of expiry of guarantee. All your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there after i.e. after six months from the date of expiry of this Bank guarantee
- c) We are liable to pay the guaranteed amount or any parts thereof under this bank guarantee only and only if you serve upon us a written claim or demand or before \_\_\_\_\_
- d) The Bank guarantee will expire on\_\_\_\_\_ (Min 62 months for warranty period and 2 Months or 12 months for claim period from the date of successful installations of the items in the order) Granted by the Bank

Signature of the authorized officer of the bank

Name of the officer\_\_\_\_\_

Designation of the officer\_\_\_\_\_

Seal, name, email and address of the Bank and address of the Branch.



**Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

**ANNEXURE E**

**PREVIOUS WORK ORDER DETAILS**

(To be submitted on Company Letter Head)

| <b>Evaluation Criteria</b>   | <b>Name of the Client</b> | <b>Order No. &amp; Date</b> | <b>Amount</b> | <b>Remark</b>                                 |
|--|---------------------------|-----------------------------|---------------|---|
| <b>List of Purchase Order / Work Orders where the similar systems (as per the technical specifications mentioned in the present tender) as per the Section-III</b> | 1.                        |                             |               | <b>Supporting document are to be attached</b> |
|  | 2.                        |                             |               |   |
|  | 3.                        |                             |               |   |
|  | 4.                        |                             |               |   |
|  | 5.                        |                             |               |   |

Date:

Place:

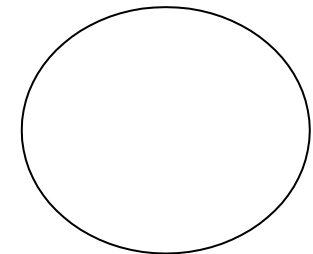
Authorized Signatory

Seal

Name:

Designation:

Contact No:



**ANNEXURE F**

**TURNOVER DETAILS**

(To be submitted on Company Letter Head)

| Evaluation Criteria  |                   |                    | Remark   |
|--|-------------------|--------------------|--|
| Bidder's Annual Turnover for<br>last three financial years | Financial<br>Year | Turnover in<br>Rs. |  |
|  | 2021-22           |                    | Supporting<br><br>Documents<br>are to be attached. |
|  | 2020-21           |                    |  |
|  | 2019-20           |                    |  |

Authorized Signatory:  
(Signature of the Bidder, with Official Seal)

**ANNEXURE G**

**Bid-Security Declaration Form**

(To be submitted on Company Letter Head)

Date: \_\_\_\_\_

To:  
**The Director,  
Indian Institute of Technology Bhilai,  
GEC Campus Sejbahar,  
Raipur 492015 Chhattisgarh**

**Tender Reference No./ Date:**

**Name of Tender / Work:**

**Dear Sir,**

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Security Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the **Indian Institute of Technology (IIT) Bhilai** for the period of time of **3 years** starting from the date of floating the tender, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity specified in the Letter of Bid; or
- (b) having been notified of the acceptance of our Bid by the **Indian Institute of Technology (IIT) Bhilai** during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the terms and conditions mentioned in the tender document .

We understand this Bid-Security Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Authorized Signatory:  
(Signature of the Bidder, with Official Seal)

**ANNEXURE H**

**INTEGRITY PACT  
(on non-judicial paper of appropriate value)**

This INTEGRITY PACT is made and executed at \_\_\_\_\_ on this day of \_\_\_\_\_  
202\_\_\_\_\_

BY AND BETWEEN

Indian Institute of Technology Bhilai (IIT Bhilai), an autonomous organization under Ministry of Education, Govt of India and incorporated under the Indian Institute of Technology Act 1961 having its transit campus at GEC Campus, Sejbahar, Raipur - 492015 and permanent campus at Kutelabhata, Durg - 491001 (hereinafter referred to as "The Principal" which term or expression shall, unless excluded by or repugnant to the subject or context, mean and include its successor-in-office, administrators or permitted assignees) of the First Part;

AND

M/s. \_\_\_\_\_ a company incorporated under the Companies Act \_\_\_\_\_ through its representative/ authorized signatory \_\_\_\_\_ (Name and Designation of the Officer) vide resolution dated \_\_\_\_\_ passed by the Board of Director, having its office at \_\_\_\_\_ (hereinafter referred to as "The Bidder/Contractor" which terms or expression shall, unless excluded by or repugnant to the subject or context, mean and include its successor-in-office, administrators or permitted assignees) of the Second Part.

**PREAMBLE**

The Principal intends to award, under laid down organizational procedures, contract/s for \_\_\_\_\_. The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of and of fairness/transparency in its relations with its Bidder(s) and/or Contractor(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

**Section 1 – Commitments of the Principal.**

1. The principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

- a) No employee of the principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the personal is not legally entitled.
  - b) The principal will during the tender process treat all Bidder(s) with equity and reason. The principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the process or the contract execution.
  - c) The principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

### **Section 2 – Commitments of the Bidder(s)/Contractor(s)**

1. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
  - a. The Bidder(s)/contractor(s) will not, directly or through any other persons or firm, offer promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage or during the execution of the contract.
  - b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
  - c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/Contractors will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or documents provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the bidder(s)/contractor(s) of

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

Indian Nationality shall furnish the name and address of the foreign principals, if any. All the payments made to the India agent/representative have to be in Indian Rupees only.

- e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
  - f. The Bidder(s)/Contractor (s) who have signed the Integrity Pact shall not approach the courts while representing the matter to IEMs and shall wait for their decision on the matter.
2. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section 3: Disqualification from tender process and exclusion from future contract**

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or to terminate the contract, if already signed, for such reasons.

### **Section 4 : Compensation for Damages**

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
2. If the Principal has terminated the contract according to Section3, or if the Principal is entitled to terminate the contract according to Section3, The Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

### **Section 5 : Previous Transgression**

1. The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the TII's anti-corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process.
2. If the bidder makes incorrect statement on this subject, he can be disqualified from the tender process and appropriate action can be taken including termination of the contract, if already awarded, for such reason.

## **Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

Section 6: Equal treatment of all Bidders / Contractors / Subcontractors.

1. In case of sub –contracting, the Principal Contractor shall take the responsibility of adoption of Integrity Pact by the Sub – Contractor.
2. The Principal will enter into agreements with the identical conditions as this one with all bidders and Contractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7: Criminal charges against violation Bidder(s) / Contractor(s) / Sub-contractors(s).

If the Principal obtains knowledge of conduct of a Bidder(s)/ Contractor(s) which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 : Independent External Monitor/Monitors

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval of Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. The Monitor will have access to all contract documents, whenever required. It will be obligatory for him to treat the information and documents of bidders /contractors as confidential. He reports to the Director, IIT Bhilai.
3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors.
4. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality. The Monitor has also signed declarations on “Non – Disclosure of Confidential Information” and of “Absence of Conflict of Interest” In case of any conflict of interest arising at a later date, the IEM shall inform the Director, IIT Bhilai.
5. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

6. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
7. The Monitor will submit a written report to the Director, IIT Bhilai within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
8. If the Monitor has reported to the Director, IIT Bhilai, a substantiated suspicion of an offence under relevant IPC/PC Act, and the Director, IIT Bhilai has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word “Monitor” word include both singular and plural.

### Section 9 : Pact Duration

This pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidder 6 months after the contract has been awarded.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by the Director, IIT Bhilai.

### Section 10 : Other Provisions

- This agreement is subject to Indian Law. Place of performance and jurisdiction is the registered office of the Principal i.e. Durg (Chhattisgarh).
- Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- If the contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- Issues like Warranty/Guarantee etc. shall be outside the purview of the IEMs.



**Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai**

- In the event of any contradiction between the Integrity Pact and its Annexure, the clause in the Integrity Pact will prevail.

(For & on behalf of the Principal)

(For & on behalf of Bidder/Contractor)

(Office Seal)

(Office Seal)

Place : \_\_\_\_\_

Date : \_\_\_\_\_

Witness 1 (Name & Address):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witness 1 (Name & Address):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witness 2 (Name & Address):

\_\_\_\_\_  
\_\_\_\_\_

Witness 2 (Name & Address):

\_\_\_\_\_  
\_\_\_\_\_

## Supply and Installation of Single Crystal X-Ray Diffractometer (SC-XRD) at IIT Bhilai

### CHECK LIST - UNDERTAKING

| S.NO | Document Description  | Enclosed<br>(Yes/No) | Page No. | Remarks |
|------|---|----------------------|----------|---------|
| 1    | Scanned copy of Tender fee payment advice of Rs. 2,500/- showing DU number clearly    |                      |          |         |
| 2    | <b>EMD: Valid MSME/NSIC Exemption certificate along with Bid Security declaration</b> |                      |          |         |
| 3    | Scanned copy of OEM/ Authorized dealer certificate                                    |                      |          |         |
| 4    | Details of Similar setups supplied as per Pre-eligibility                             |                      |          |         |
| 5    | Detailed Price bid  |                      |          |         |
| 6    | Annual turnover details for last three years  |                      |          |         |
| 7    | Scanned signed copies of Annexures from A to H, whichever is applicable               |                      |          |         |
| 8    | Scanned copy of Technical Compliance  |                      |          |         |

I / We do hereby declare that all the above mentioned documents are enclosed as per the tender document.

Authorized Signatory:  
(Signature of the Bidder, with Official Seal)