

**TENDER DOCUMENT FOR  
X-ray Photoelectron Spectroscopy (XPS) with UPS  
in the Central Instrument Facility, Indian Institute of Technology (Banaras  
Hindu University), Varanasi**

**(NOTICE INVITING TENDER)**

On behalf of the Director, IIT (BHU) Varanasi, **online tender from** manufactures (or their 'authorized' dealers by submitting letters/certificates, in original, from the manufacturers that they have been authorized to quote in response to this NIT) of the following items are invited:

Sl. No.	Tender no.	Specifications & quantity of the item	Earnest Money Deposit (EMD)
1.	IIT(BHU)/CIF/ 2018-19/XPS Dated 27.12.2018  <b>Last Date: 17.01.2019 03.00 PM</b>	<p><b>X-ray Photoelectron Spectroscopy (XPS) with UPS 1 complete Unit Approx Cost: Rs. 3 Cr.</b></p> <p><b>TECHNICAL BID: (MUST be submitted online in .pdf format)</b></p> <ol style="list-style-type: none"> <li>1. Scanned Copy of Proof of Tender Fees and EMD.</li> <li>2. Scanned Copy of Technical supporting documents in support of all claims made at Annexure-1.</li> <li>3. Scanned Copy of Technical Compliance statement, Bidder information form.</li> <li>4. Scanned Copy of Organization Declaration Sheet, Compliance sheets for Essential Pre Bid Criteria.</li> <li>5. List of organizations/clients where the same products have been supplied. (Annexure-3).</li> <li>6. Scanned Copy of Tender Acceptance Letter, Checklist given in Section 5, Tender Form etc.</li> <li>7. Scanned Copy of Brochure of quoted product and other documents, if any.</li> </ol> <p><b>PRICE BID: (MUST be submitted online in given BOQ only and scanned copy should be attached in pdf format.)</b></p> <ol style="list-style-type: none"> <li>1. BOQ for Supply of X-ray Photoelectron Spectroscopy (XPS) with UPS in the Central Instrument Facility., IIT (BHU),Varanasi in .xls format.</li> <li>2. Duly filled and signed Tender form (Price Bid).</li> <li>3. Duly filled and signed BOQ in PDF Format.</li> </ol>	<b>Rs. 6,00,000/- only</b>

The Tender Documents for the given items will be on Two Bid System consisting of Technical Bid and Price Bid. The Tender Documents will be submitted item-wise in online. Any firm may bid for any number of items but each offer must be item-wise in two bid cover enclosing Technical Bid and Price Bid.

**No manual bids will be accepted. All bids, both Technical and Financial should be submitted on the E-procurement portal.**

The Tender Document along with detailed specifications, terms and conditions may be downloaded **from the institute website ([www.iitbhu.ac.in](http://www.iitbhu.ac.in)) under Tenders (<https://www.iitbhu.ac.in/tenders>) and (<https://www.eprocure.gov.in/cppp>)** by the interested supplier.

1. **Tender Processing Fee: Rs. 5900 (Five thousand Nine Hundred Only inclusive of GST and Non-refundable)**
2. **Earnest Money Deposit: Rs. 6,00,000/- Lakh only**

Last date and time for receipt of Tender Processing fee and EMD (if in form of DD): **17.01.2019 (up to 03:00 PM)**

**The Tender Processing Fee of Rs 5900/- (Five thousand Nine Hundred Only inclusive of GST and Non-refundable) and E.M.D. of Rs. 6,00,000/- (Refundable) for this Tender to be paid in the form of Bank Draft in favour of Registrar, IIT (BHU) or by RTGS/NEFT payable at Varanasi before the Bid Opening Date and time. The hard copy of DD for tender processing fee and EMD should be reached on or before the Bid Opening Date and Time at the address: The Professor In-charge, Central Instrument Facility, Indian Institute of Technology (Banaras Hindu University), Varanasi – 221005, UP. GST at concessional rate will be applicable as per GST Notification No. 45/2017- CENTRAL TAX (RATE) & 47/2017- INTEGRATED TAX (RATE) Dated 14-11-2017, @ 5%. Tender fees and EMD can be paid through RTGS/NEFT) as per the following details:**

**Name of Account - Registrar, IIT (BHU)**

**Name of the Bank - State Bank of India**

**Name of Branch - ITBHU, Varanasi**

**Account No. - 32778803937**

**IFSC Code - SBIN0011445**

**The proof of payment must be enclosed with Technical Bid.**

**Note: Both the transactions are to be done separately.**

This Tender Document contains the following:

<b>SECTION 1:</b> Instruction For Online Bid Submission	: Page No.4-6
<b>SECTION 2:</b> Instructions to Bidders	: Page No.6-11
<b>SECTION 3:</b> General conditions of contract (GCC)	: Page No.12-18
<b>SECTION 4:</b> Special conditions of contract (SCC)	: Page No.19
<b>SECTION 5:</b> Checklist For Bid/Tender Uploading	: Page No.20
<b>SECTION 6:</b> DECLARATION	: Page No.21
<b>SECTION 7:</b> TENDER FORM (Techno commercial un-priced Bid)	: Page No.22
TENDER FORM (Priced Bid)	: Page No.24
TENDER ACCEPTANCE LETTER	: Page No.26 ( <b>Annexure A</b> )
PBG format	: Page No.27
Technical specification of the instrument	: Page No.28-32 ( <b>Annexure 1</b> )
Technical compliance	: Page No.33-36 ( <b>Annexure 2</b> )
Previous Same Order Executed	: Page No.37 ( <b>Annexure 3</b> )
Bid Submission	: Page No.38 ( <b>Annexure B</b> )

The Tender should be addressed to **The Professor In-charge, Central Instrument Facility, Indian Institute of Technology (Banaras Hindu University), Varanasi – 221005, UP.**, and should be submitted on or before the date and time of Bid opening date and time as mentioned in critical date sheet on e-portal.

The Institute shall not be responsible for any delay in submitting Bids by online. The Institute reserves the right to accept or reject any bid, cancel the Tender without assigning any reason thereof. No correspondence in this regard will be entertained. Earnest Money shall be forfeited in case it is found at any stage that information/particulars regarding supply of tendered item (s) is false.

**(Professor In-charge)**  
**Central Instrument Facility, IIT (BHU)**

**TENDER DOCUMENT FOR: X-ray Photoelectron Spectroscopy (XPS) with UPS  
CRITICAL DATE SHEET**

<b>Published Date</b>	<b>27-12-2018 (05:30 PM)</b>
<b>Bid Document Download Start Date</b>	<b>27-12-2018 (05:30 PM)</b>
<b>Clarification Start Date</b>	<b>27-12-2018 (05:30 PM)</b>
<b>Clarification End Date</b>	<b>15-01-2019 (05:00 PM)</b>
<b>Bid Submission Start Date</b>	<b>27-12-2018 (05:30 PM)</b>
<b>Bid Document Download End Date</b>	<b>17-01-2019 (03:00 PM)</b>
<b>Bid Submission End Date</b>	<b>17-01-2019 (03:00 PM)</b>
<b>Bid Opening Date</b>	<b>18-01-2018 (03:30 PM)</b>
<b>Address For Communication</b>	<p align="center"><b>The Professor In-charge</b> Central Instrument Facility Indian Institute of Technology (Banaras Hindu University), Varanasi – 221 005, U.P., INDIA E-mail: <a href="mailto:cifc@itbhu.ac.in">cifc@itbhu.ac.in</a></p>

# **TENDER DOCUMENT FOR: X-ray Photoelectron Spectroscopy (XPS) with UPS**

## **SECTION 1: INSTRUCTION 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 soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <http://eprocure.gov.in/eprocure/app>.

### **1. Registration**

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal ([URL: http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) by clicking on the link “Click here to Enroll”. Enrolment on the CPP Portal is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

### **2. Searching for Tender Documents**

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

### **Preparation of Bids**

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### **4. 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. Bidder has to select the payment option as “on-line” to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees are sought, bidders need to pay the tender fee and EMD separately on-line through RTGS.
4. A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
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. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
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.

#### **5. 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, 0120-6277787

## 6. 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 <https://eprocure.gov.in/eprocure/app>.

## **SECTION 2: INSTRUCTIONS TO BIDDERS**

### **A. Introduction**

#### **1. Scope of Work**

IIT-BHU invites online bids from the manufacturers/suppliers on behalf of The Director, IIT-BHU for supply of Equipment as per the technical specifications given in Annexure- 1 and as per terms and conditions of this tender document. Supplier should assure complete commissioning of the system including installation and application training for efficient utilization of **X-ray Photoelectron spectroscopy (XPS) with UPS** and the System should be of latest generation fully. This instrument will be installed in Central Instrument Facility, therefore should be users friendly and versatile for varieties of samples.

#### **2. Cost of Bidding**

The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

### **B. The Bidding Documents**

#### **3. Cost of Bidding Documents**

The cost of bidding documents (Rs. 5900/- Five Thousand Nine Hundred Only inclusive of GST and Non-refundable) should be submitted in the form of Bank Draft or By NEFT/RTGS as per the details mentioned above. Further, the proof of payment must be uploaded with Technical Bid.

#### **4. Content of Bidding Documents**

**4.1** The goods required, bidding procedures and contract terms are prescribed in the bidding documents. In addition to Invitation of Bids, the bidding documents include:

- (a) Instructions for Online Bid Submission
- (b) Instruction to Bidders (ITB);
- (c) General Conditions of Contract (GCC);
- (d) Special Conditions of Contract (SCC)
- (e) Schedule of requirements;
- (f) Tender form (technical bid).
- (g) Tender form (financial bid).

**4.2** The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

## 5. Amendment of Bidding Documents

**5.1** At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

**5.2** All prospective bidders who have received the bidding documents will be notified of the amendment in writing, which will be binding on them.

**5.3** In order to allow prospective bidders reasonable time within which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

## C. Preparation of Bids

### 6. Language of Bid

The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English language.

### 7. Documents Comprising the Bid

#### 7.1 Techno commercial un-priced bid and priced Bids:

The bids are to be submitted in two parts i.e. Techno commercial un-priced bid and priced Bids.

(a) Techno commercial un-priced bid along with Earnest Money Deposit (submitted in the form of Bank Draft in favour of **Registrar, IIT (BHU)** payable at **Varanasi**) or By NEFT/RTGS) as shown in invitation to bids shall be submitted through CPP Portal. If the proof of payment of EMD is not received along with the technical bid, such bid will not be considered. The samples (if required) of all the items shown in the schedule of requirements of each tender should also accompany the techno commercial un-priced bid in a separate sealed envelope.

(b) Priced bid.

**7.2 Techno commercial un-priced bid:** The Techno commercial un-priced bid prepared by the bidder shall be provided in the following Model Response format:

#### Model Response format

- (a) Standing of each Bidder Manufacturer/Dealer and past experience in supply of the material (certificates to be enclosed), proof of manufacturing Unit/Dealership along with all the documents required for proving the credentials regarding the fulfillment of essential pre-bid criteria.
- (b) List of other Govt. Departments, Public Sector units and Central Autonomous Bodies for which the bidder is supplying material or having the same type of contracts and a certificate regarding the satisfactory performance of the contract (In the Annexure-3 format).
- (c) Copy of the audited balance sheet of the vendor for the previous financial year indicating the turnover in supply of the relevant materials/service.
- (d) Details of Permanent Account Number and latest income tax clearance certificate.
- (e) Details of GST No. along with a copy of certificate to be attached.
- (f) Submission of samples if required, for all items indicated in the schedule of requirements. The make of items proposed to be supplied should be indicated in the format of the schedule of requirements and submitted along with the techno commercial un-priced bid without indicating the pricing components.
- (g) Willingness to execute all orders which are placed to meet emergency requirement on priority basis. The Bidder shall note that standards for workmanship, material and equipment, and references to brand names designated by the Purchaser in the schedule of requirements are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in his bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial

equivalence to those designated in the Technical Specifications.

### **7.3 Price Bid**

The price bid shall comprise the techno commercial bid along with the price component indicating the Unit prices for each and every item indicated in the schedule of requirements (Annexure 1).

- (a) The prices quoted must be net per unit as shown in the Schedule and must include all charges for delivery at the designated stores i.e. FOR IIT (BHU), Varanasi
- (b) The rate must be stated for each item separately both in words and figures. If there is a discrepancy between the price quoted in word and figures the higher price quoted will be treated as final.
- (c) The price quoted by the tenderer should be exclusive of Custom Duty (in case of Import) and other taxes as applicable from time to time. The Institute will provide the valid exemption certificate as and when needed.
- (d) Quoted prices should be firm and inclusive of freight and forwarding charges, handling charges, loading and unloading charges, and insurance charges etc.
- (e) The prices once accepted by the Institute shall remain valid till the successful execution of the order and till supplies is fully effected and accepted or **12 months** from the date of acceptance of tender whichever is later. The Institute shall not entertain any increase in the rates during the period. However, in the event there is a reduction or increase in Government levy/duties during the period of execution of the order, the rates shall be suitably adjusted with effect from the date notifying the said reduction or increase in the Government levy/excise duty.

### **8. Bid Prices**

**8.1** The Bidder shall indicate on the Schedule of requirements (BOQ), the unit prices of the goods it proposes to supply under the Contract and enclose it with the priced bid.

**8.2** Prices indicated on the Price Schedule shall be entered separately in the following manner:

- (i) The prices quoted must be net per unit as shown in the schedule of requirements and must include all charges for delivery at the designated stores.
- (ii) Any Indian duties, GST and other taxes which will be payable on the goods if this Contract is awarded;

**8.3** Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account.

**8.4** The price should be quoted without custom duty, since IIT (BHU) is exempted from payment of custom duty being the premier Academic Institution. Necessary certificate will be issued on demand.

### **9. Bid Currencies**

Prices shall be quoted in Indian Rupees and/or in other Currency available in given BOQ (for imports) only. The Institute may, at its discretion, arrive at approximate Rupee equivalent on the basis of exchange rate on the date of opening of price bid. The Institute shall refer the exchange rate as available on RBI reference rate archive on the date of Financial Bid opening for conversion of foreign currency into INR for comparison purpose.

### **10. Period of Validity of Bids**

**10.1** Bids shall remain valid for **180** days after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

**10.2** In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiting its EMD. A Bidder granting the request will not be required nor permitted to modify the bid.



**10.3** Bid evaluation will be based on the bid prices without taking into consideration the above modifications.

#### **D. Submission of Bids**

**11.** The tender has to be submitted ONLINE before the due date. The offers received after the due date and time will not be considered. **No manual bids will be considered.**

#### **12. Deadline for Submission of Bids**

**12.1** Bids must be received by the Purchaser ONLINE not later than the time and date specified in the Invitation for Bids.

**12.2** The Purchaser may, at his discretion, extend this deadline for submission of bids by amending the bid documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

#### **13. Late/Delayed Bids**

The offers received after the due date and time will not be considered.

#### **14. Modifications and Withdrawal of Bids**

**14.1** The Bidder may modify or withdraw its bid after the ONLINE bid's submission, as per the provision of CPP Portal.

**14.2** No bid may be modified subsequent to the deadline for submission of bids. No documents will be accepted in support of essential pre-bid criteria after the last date of submission of bids.

**14.3** No bid may be withdrawn in the interval between the deadline for submission of bids and the expiry of the period of bid validity specified by the Bidder on the bid form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its EMD.

#### **E. Bid Opening and Evaluation of Bids**

#### **15. Opening of Techno commercial un-priced Bids**

The purchaser will open all techno commercial un-priced bids in the first instance.

#### **16. Clarification of Bids**

**16.1** During evaluation of the bids, the purchaser may, at its discretion, ask the Bidder for clarification of its bid. The request for clarification and the response shall be in writing and no change in price or substance of the bid shall be sought, offered or permitted.

**16.2** No Bidder shall contact the purchaser on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Institute it should be done in writing.

**16.3** Any effort by a Bidder to influence the purchaser in its decisions on bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.

#### **17. Evaluation of Techno commercial un-priced Bid**

**17.1** Prior to the detailed technical evaluation, the purchaser will determine the substantial responsiveness of each bid. A substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviations and meets all the essential pre-bid criteria. If any bidder does not meet the essential pre-bid criteria as laid down in the Instruction to Bidders, then his bid will be summarily rejected. No documents will be accepted in support of essential pre-bid criteria after the last date of submission of bids.

**17.2** The purchaser will reject a bid determined as not substantially responsive.

**17.3** The bidders may be called for discussion and may be allowed to modify their technical bids to suit the

organization's requirement. The idea is to arrive at a threshold level of acceptability above which all the bidders shall be treated on par. Those whose technical specifications do not reach the threshold level of acceptability shall be rejected as technically unsuitable. The price bids of the bidders who finally emerge as technically acceptable shall be opened, evaluated and the contract awarded to the lowest evaluated bidder.

**17.4** The bidders short-listed by the purchaser based on meeting the essential pre-bid criteria and detailed evaluation regarding satisfying the technical criteria laid down in this tender document may be called for detailed discussions with a team selected for the purpose, at a specified date, time and venue, if needed.

## **18. Opening of Priced Bids**

**18.1** The Purchaser will open the Priced Bids of only those bidders who meet the essential pre-bid criteria and whose techno commercial un-priced bids have been found to be substantially responsive.

**18.2** The priced Bids of the technically qualified bidders shall be opened by the tender committee.

## **19. Evaluation and Comparison of priced Bids**

**19.1** Arithmetical errors will be rectified on the following basis: If there is a discrepancy between words and figures, whichever is the higher of the two shall be taken as bid price. If the Vendor does not accept the correction of errors, its bid will be rejected

**19.2** Bidders shall state their bid price for the payment schedule outlined in the Clause 14 of General Conditions of Contract. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The purchaser may consider the alternative payment schedule offered by the selected Bidder but it may not be binding on the purchaser.

**19.3** The purchaser, at its option may ask some more bidders to match the rates of the lowest bidder for creating parallel suppliers.

**19.4** The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: **Indian Rupees**

**19.5** The source of exchange rate shall be: **Reserve Bank of India.**

**19.6** The date for the exchange rate (if applicable) shall be: **Date of opening of Financial Bids.**

## **20. Purchasers right to accept any bid and to reject any bid or all bids**

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, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.

## **21. Award Criteria**

Subject to Clause 19, the purchaser will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the best evaluated bid provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

## **22. Notification of Award**

Prior to the expiration of the period validity, the purchaser will notify the successful Bidder in writing by letter or by fax, to be confirmed in writing by speed post or hand delivered letter, that its bid has been accepted.

## **23. Factors Affecting the Award of Supply**

**23.1** The bidder should have its own Contract support facilities. The support facilities should be fully owned and managed by the bidder.

**23.2** Conformity with the Request for Bid/Tender required and conditions.

**23.3** The assessment based on the response to Model Response Outline.

**23.4** The assessment of the capability of the bidder to meet the terms and conditions.

**23.5** The bidders must have executed same orders, for which the bidder is quoting, as indicated in clause 1 for Govt./Semi-Govt./Autonomous Organizations.

**23.6** The cost and the discount offered, if any.

**24. Fall clause**

**24.1** The price quoted by the supplier should not be higher than the maximum retail price, if any, for the stores and the same shall not be higher than the price usually charged by the supplier for stores of the same nature, class or description to any other purchaser.

**24.2** The price charged for the stores supplied under the contract by the supplier shall in no event exceed the lowest price at which the supplier sells the stores of identical description to any other person during the period till performance of all supply orders placed during the currency of the contract is completed. If at any time during the period the supplier reduces the sale price of such stores or sells such stores to any other person including his dealers at a price lower than the price chargeable under the contract, he shall forthwith notify such reduction or sale to the purchaser and the price payable under the contract for these items of stores supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

**24.3** If it is discovered that the supplier has contravened the above conditions, then without prejudice to any other action which might be taken against him, it shall be lawful for the purchaser to (a) revise the price at any stage so as to bring it in conformity with sub-clause(i) above, or (b) to terminate the contract and purchase the items of stores at the risk and cost of the supplier and in that event the provisions of Clause 28 of General Conditions of Contract shall, as far as possible, be applicable or recover the loss.

## **SECTION 3: GENERAL CONDITIONS OF CONTRACT (GCC)**

### **1. Definitions**

In this Contract, the following terms shall be interpreted as indicated:

- (a) "The order" means the agreement entered into between the Purchaser and the Supplier including all the attachments and appendices and all documents incorporated as per notification of award.
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;"The Goods" means all the items, which the Supplier is required to supply to the Purchaser under the Contract;
- (c) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services training and other obligations of the Supplier covered under the Contract;
- (d) "GCC" means the General Conditions of Contract contained in this section.
- (e) "The Purchaser" means the organization purchasing the Goods i.e. Central Instrument Facility, IIT (BHU), VARANASI.
- (f) "The Purchaser's country" is India.
- (g) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
- (h) "Day" means calendar day.

### **2. Application**

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

### **3. Standards**

The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned Institution.

### **4. Use of Contract Documents and Information**

- 4.1** The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 4.2** The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information except for purposes of performing the Contract.
- 4.3** Any document, other than the Contract itself, shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

### **5. Patent Rights**

The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

### **6. Submission of the bids.**

- 6.1 All bids complete in all respect must reach the purchaser within the last date and time of receipt of bid. No

extension shall be allowed for any reason what so ever. Late tenders/delayed bids and tenders received without earnest money etc. shall be rejected.

- 6.2** Tender documents are available for sale with the purchaser. Interested bidders may purchase the tender documents on payment of the cost there of. The purchaser shall not be liable for either non-receipt of the tender document or for delay in receipt of tender document.

## **7. Inspections and Tests**

- 7.1** The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser.
- 7.2** The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data shall be furnished to the inspectors at no charge to the Purchaser.
- 7.3** Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 7.4** The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- 7.5** Nothing in GCC Clause 7 shall in any way release the Supplier from any warranty or other obligations under this Contract.

## **8. Consequences of rejection**

If in the event the stores are rejected by the purchaser at the destination and the supplier fails to make satisfactory supplies within the stipulated period of delivery, the purchaser will be at liberty to:

- (a) Allow the supplier to resubmit the stores in replacement of those rejected, within a specified time without any extra cost to the purchaser or
- (b) Reject the material, which shall be final and binding on the contractor.
- (c) Procure the rejected materials of comparable quality from the open market/Govt. stores and the supplier shall be liable to pay the difference in price over the RC prices or get the amount adjusted from the outstanding bills of the supplier, if any or EMD.

## **9. Packing**

- 9.1** The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2** The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, in any subsequent instructions ordered by the Purchaser.

## **10. Delivery and Documents**

- 10.1** The Supplier shall make delivery of the Goods within 60 days from the placement of purchase order in pursuance of the notification of award. The purchase order would be placed after assessing the requirements on quarterly basis. However, the supplier shall also arrange to execute all orders on priority basis which would be placed to meet any emergent requirements.

**10.2** In case the purchaser decides to conclude parallel rate contracts, then the requirements would be split on different firms on equitable basis as per the discretion of the purchaser.

**10.3** The delivery of Stores shall be affected at the premises of the Institute free of all delivery charges and within the stipulated time and as may be elucidated in the confirmed order, accompanied by a delivery challan. No extension of time for delivery of Stores shall normally be accorded.

**Time and date of delivery – the essence of the contract:** The time for and the date of delivery of the stores stipulated shall be deemed to be of the essence of the contract and delivery must be completed not later than the date(s) specified.

## **11. Insurance**

The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. The insurance shall be obtained by the suppliers in an amount equal to 110% of the value of the goods from “warehouse to warehouse” (final destinations) on “all risks” basis including war risks and strikes.

## **12. Transportation**

Where the Supplier is required under the Contract to transport the Goods within India defined as Project site, transport to such place of destination in India including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the contract Price.

## **13. Warranty**

**13.1** The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in India.

**13.2** This warranty shall remain valid for **at least 36 months (with additional two years of free AMC after warranty period)** after the Goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, unless specified otherwise.

**13.3** The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.

**13.4** Upon receipt of such notice, the Supplier shall with all reasonable speed, repair or replace the defective Goods or parts thereof, without any extra cost to the Purchaser.

**13.5** If the Supplier, having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

## **14. Payment**

**14.1** Payment will be made 90 % by Bill Basis or by letter of credit i.e. 90% payment against shipment and rest 10% on successful installation and submission of PBG after satisfactory installation and submission of PBG@10% of order value valid for period of 60 days beyond all warranty obligations.

**14.2** The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the contract.

## **15. Prices**

Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in his bid.

## **16. Change Orders**

**16.1** The Purchaser may at any time, by written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

- (a) Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) The method of shipping or packing;
- (c) The place of delivery; and/or
- (d) The services to be provided by the Supplier.

**16.2** If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

## **17. Contract Amendments**

Subject to GCC Clause 16, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

## **18. Assignment**

The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

## **19. Subcontracts**

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

## **20. Delays in the Supplier's Performance**

**20.1** Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser as per GCC clause 10.

**20.2** If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

**20.3** Except as provided under GCC Clause 23, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to GCC Clause 21, unless an extension of time is agreed upon pursuant to GCC Clause 20.2 without the application of liquidated damages.

## **21. Penalty**

Subject to GCC Clause 23, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to 1% per week and the maximum deduction is 10% of the contract price of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance. Once the maximum is reached, the Purchaser may

consider termination of the Contract pursuant to GCC Clause 22.

## **22. Termination for Default**

- 22.1** The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:
- (a) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the purchase order, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 20; or
  - (b) If the Supplier fails to perform any other obligation(s) under the Contract: or
  - (c) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

‘For the purpose of this Clause:

“Corrupt practice” means the offering, giving, receiving or soliciting of anything of value to Influence the action of a public official in the procurement process or in contract execution.

“Fraudulent practice: a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;”

- 22.2** In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 22.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

## **23. Force Majeure**

- 23.1** Notwithstanding the provisions of GCC Clauses 20 & 21, the Supplier shall not be liable for imposition of liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 23.2** For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 23.3** If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## **24. Termination for Insolvency**

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

## **25. Termination for Convenience**

- 25.1** The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- 25.2** The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of



termination shall be accepted by the Purchaser at the Contract terms and prices.

## **26. Resolution of Disputes**

- 26.1** The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 26.2** If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms as specified below. These mechanisms may include, but are not limited to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and national or international arbitration.
- 26.3** In case of Dispute or difference arising between the Purchaser and a supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996.

## **27. Governing Language**

The contract shall be written in English language. Subject to GCC Clause 28, English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

## **28. Applicable Law**

- 28.1** The contract shall be governed by the Law of Contract for the time being in force.
- 28.2** Irrespective of the place of delivery, the place of performance or place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender has been issued.
- 28.3** Jurisdiction of Courts: The courts of the place from where the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of this contract.
- 28.4** One month notice will be given by either party for termination of Contract during the tenure of Contract for breach of Clause or otherwise.

## **29. Taxes and Duties**

Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

## **30. Performance Security:**

- (i) Successful bidder have to furnish **5%** of the order value as a performance security in the shape of Bank Guarantee/ Fixed Deposit Receipt in favour of the **Registrar, Indian Institute of Technology (BHU)** for a period of 60 days beyond the end of all warranty obligations or as the case may be.
- (ii) Earnest Money Deposit will be refunded to the successful bidder on receipt of Performance Security.

## **31. The Institute Reserves The Right To:**

- i.** Increase or decrease the quantity of the item(s) as per requirement.
- ii.** Reject the quotation in absence of not furnishing the documentary evidence in respect of GST and Income Tax clearance certificates together with the performance of supplies in various branches/institutions.
- iii.** Reject the quotation in the event of non-furnishing the authentic documentary evidence in respect of Testing reports / Performance report of the concerned Govt. Organization / Institutions about the products being manufactured and marketed. The performance test of the product can be conducted at Institute level also for which charge will have to be borne by the suppliers.

- iv. Reject the supplies already made, if not found up to the mark. Thorough checking may be adopted to test the correctness of the supply. In such an event further action may call to conform or discard the supply.
- v. To reject any addition/alteration in respect of local dealerships intimated by the Principals after consideration of the case by the committee appointed by the Institute for the purpose.
- vi. The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:
  - a. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the purchase order, or within any extension thereof granted by the Purchaser.
  - b. If the Supplier fails to perform any other obligation(s) under the Contract.
  - c. If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

‘For the purpose of this Clause:

“Corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

“Fraudulent practice: a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;”

To reject any or all the offers without assigning any reasons thereof.

All disputes are subject to “*Varanasi Jurisdiction*” only.

The decisions of the Institute in all respect shall be final and binding on all. Kindly note that we attach great significance to the list of the organizations of repute where a firm is on rate contract, therefore please enclose certified photocopies of the rate contract.

Please ensure that your offer is complete in all respect as no further clarifications shall be sought from you and reaches us within the last date mentioned above. **The Institute shall not be responsible for any postal delay / loss in transit etc.**

Please mention our reference number and due date on the sealed envelope, otherwise your quotation may not be entertained.

A checklist (list documents to be attached) with proper signature, seal and date should be enclosed with tender document for verification; otherwise the proposal will not be entertained.

## **SECTION 4: SPECIAL CONDITIONS OF CONTRACT**

- I. The bidder must have executed same nature of works in the last 3 years in any IITs/NITs/Govt. Office/PSU/University/Autonomous Body with order value of at least Rs. 20 lakhs each.**
- I. User List:** Provide users for last 3 years with contact person name, address, phone, and email IDs.
- II. The Tender should be enclosed with proper certifications like Authorization Certificate and Proprietary Certificate in case of Proprietary items.**
- III. Pre-installation site preparation/inspection requirements to be indicated and specified along with the bid.**
- IV. Warranty period to be clearly mentioned and should begin from the date of installation. Annual Maintenance Contract Charges should be clearly mentioned after three years warranty and two years mandatory free AMC period.**

**NOTE: THE BID OF THOSE BIDDERS WHO FAILS TO COMPLY THE ABOVE ESSENTIAL CRITERIA WILL NOT BE CONSIDERED FOR TECHNICAL EVALUATION.**

### **2. Documents Comprising the Bid**

The tender/Bid shall be submitted online in two parts, viz., Technical Bid and Commercial Bid.

#### **I. Technical Bid**

The following documents are to be scanned and uploaded as part of the Technical Bid as per the tender document:

- (a) Scanned copy of Tender Forms (Techno Commercial Un-Priced Bid), Declaration, Bidder's Information Form, and Tender Acceptance Letter;
- (b) Scanned copy of proof for submission of Tender Document Fee/ Earnest Money Deposit etc.;
- (c) Scanned copy of quoted product brochure
- (d) Scanned copy of
  - (i) Documentary evidence that the Goods and Related Services to be supplied by the Bidder are of eligible origin and
  - (ii) Conform to the Bidding Documents,
  - (iii) Any other document required as per the tender;
- (e) Scanned copy of Technical Compliance Sheet (Annexure 2)

#### **II. Commercial Bid**

The commercial bid comprises of:

- (i) Scanned copy of Tender Form (Price Bid)
- (ii) Price bid in the form of **BOQ.xls**.
- (iii) Scanned copy of signed price bid in pdf format.

The Price bid format is provided as BOQ.xls along with this Tender Document at <http://eprocure.gov.in/eprocure/app.Bidders> are advised to download this BOQ.xls and quote their offer/rates in the prescribed column. Bidders can quote Basic Price in INR or other CURRENCY available in given BOQ (for other than INR) but it is mandatory to quote taxes/levies in INR only, in the prescribed column and upload the same in the commercial bid.

In addition to the above requirements, bids submitted by a Joint Venture, shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement, there to.

The Bidder shall furnish in the Tender Forms information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

**sd/-**  
**(Professor In-charge)**  
**Central Instrument Facility, IIT (BHU)**

**SECTION 5 : CHECKLIST FOR BID/TENDER UPLOADING**  
 (The following check-list must be filled in and uploaded with the bid documents)

SI No.	Particulars Techno Commercial Unpriced Bid (Cover 1)	YES/NO
1.	Have you uploaded the techno commercial unpriced bid form duly filled in appropriately?	
2.	Have you uploaded a copy of the last three financial years (starting from the year 2017-18) audited balance sheet and P & L Account of your firm.	
3.	Have you uploaded the details of the PAN, copy of GST registration certificate and OEM authorization letter specifically for this bid.	
4.	Have you executed the same nature of work in last 3 years with order value as mentioned in essential pre-bid criteria and uploaded the copies of relevant work orders and satisfactory installation certificates.	
5.	EMD and Tender Processing Fee: Have you submitted DD/transferred online EMD and Tender Processing Fee asked for separately and uploaded their proof of submission.	
6.	Have you uploaded the schedule of requirement indicating the make offered without indicating the pricing components along with the techno commercial unpriced bid?	
7.	Have you uploaded the bids both techno commercial unpriced and priced bid separately for each tender?	
8.	Have you enclosed the statement of deviations from financial terms and conditions, if any?	
9.	Have you submitted the Technical Compliance Sheet?	
10.	Have you attached Manufacturer's Authorization certificate for this Tender?	
11.	Have you attached the Declaration on the letter pad of Bidder?	
12.	Have you attached the signed Tender acceptance letter?	
<b>Price Bid (Cover 2)</b>		
13.	Have you signed and uploaded the priced bid form?	
14.	Have you uploaded the schedule of requirements duly priced i.e BoQ and its pdf version?	

**SECTION 6**

**DECLARATION**

*(To be uploaded on the letter head of the firm submitting the bid)*

1. I, ----- Son /Daughter of Shri-----  
----- Proprietor/ Partner/ CEO /MD/ Director/  
Authorized Signatory of M/s. ----- am competent to sign  
this declaration and execute this tender document.
2. I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.
3. The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief.
4. I/ we/ am are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
5. Each page of the tender document and papers submitted by my Company is authenticated, and I take full responsibility for the entire documents uploaded.
6. This is certified that our organization has been authorized (Copy uploaded) by the OEM to participate in Tender. We further certify that our organization meets all the conditions of essential eligibility criteria and technical specifications laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.
7. The prices quoted in the price bids are subsidized due to academic discount given to IIT (BHU), Varanasi.
8. We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/Govt. Department/Public Sector Undertaking in the last three years.

-----  
Signature of the Authorized Person

Date: -----

Full Name -----

Place: -----

Company Address with Seal

## SECTION 7

### TENDER FORM

**(Techno commercial un-priced Bid)**

*(On the letter head of the firm submitting the bid)*

**Tender No.** .....

To

The Professor In-charge  
Central Instrument Facility  
Indian Institute of Technology (Banaras Hindu University)  
Varanasi – 221005, U.P

Dear Sir,

1. I/We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders;
2. I/We meet the eligibility requirements and have no conflict of interest;
3. I/We have not been suspended nor declared ineligible in India;
4. I/We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*;
5. I/We offer to supply the items as listed in the schedule to this tender hereto/portion thereof as you may specify in the acceptance of Tender at the price given in the said Schedule and agree to hold this offer open for a period of 90 days from the date of opening of the tender.
6. I/we shall be bound by a communication of acceptance issued by you.
7. I/We have understood the Instruction to bidders and Conditions of Contract in the form as enclosed with the invitation to the tender and have thoroughly examined the specifications quoted in the Schedule hereto and am/are fully aware of the nature of the goods required and my/our offer is to supply the goods strictly in accordance with the specifications and requirements.
8. **A proof of payment of Rs..... (Rupees..... only)**  
as Earnest Money in the aforementioned account of Registrar, IIT (BHU) has been uploaded.
9. The following have been uploaded to form part of this tender.
  - (a) Schedule of requirements, quoting the make only duly signed and stamped. (without indicating price)
  - (b) Scanned copy of PAN Card
  - (c) Copy of last three financial audited balance sheet and P&L account.
  - (d) Copy of Valid GST registration certificate.
  - (e) Copy of same relevant major purchase within last 3 years with order type and value as mentioned in essential pre-bid criteria.
  - (f) Copy of authorization letter from OEM in Case of authorized dealer only.
  - (g) Statement of deviations from financial terms & conditions, if any.
  - (h) Any other enclosure. (Please give details)

10. We undertake to execute all orders which have been placed to meet emergent requirements on priority basis.

11. Certified that the bidder is:

(a) A sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor,

**Or**

(b) A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.

**Or**

(c) A company and the person signing the document is the constituted attorney.

***(NOTE: Delete whatever is not applicable. All corrections/deletions should invariable be duly attested by the person authorized to sign the bid document).***

12. We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof shall constitute a binding contract between us.

13. If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;

14. We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process, other than alternative bids submitted;

15. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption

Name of the Bidder\* .....

Name of the person duly authorized to sign the Bid on behalf of the Bidder\*\* .....

Title of the person signing the Bid .....

Signature of the person named above .....

Date signed ..... day of .....

\* In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

\*\* Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid Schedules.

Yours faithfully,

(Signature of bidder)

Dated this day of \_\_\_\_\_

**Address:** .....

Telephone No. : \_\_\_\_\_

FAX \_\_\_\_\_

E-mail \_\_\_\_\_

Company seal

**TENDER FORM**

**(Priced Bid)**

*(On the letter head of the firm submitting the bid document)*

To,

The Professor In-charge  
Central Instrument Facility  
Indian Institute of Technology (Banaras Hindu University)  
Varanasi – 221005, U.P

**Ref: Tender No.....Dated: .....**

Sir,

Having examined the bidding documents and having submitted the techno commercial unpriced bid for the same, we, the undersigned, hereby submit the priced bid for supply of goods and services as per the schedule of requirements and in conformity with the said bidding documents.

1. We hereby offer to supply the Goods/Services at the prices and rates mentioned in the enclosed schedule of requirement.
2. We do hereby undertake that, in the event of acceptance of our bid, the supply of Goods/Services shall be made as stipulated in the schedule of requirement and that we shall perform all the incidental services.
3. The prices quoted are inclusive of all charges net F.O.R IIT (BHU) Varanasi. We enclose herewith the complete Price Bid as required by you. This includes:
  - a. Price Schedule (Bill of Quantity-BOQ) in .pdf format and .xls format
  - b. Statement of deviations from financial terms and conditions, if any.
4. We agree to abide by our offer for a period of 90 days from the date fixed for opening of the bid documents and that we shall remain bound by a communication of acceptance within that time.
5. We have carefully read and understood the terms and conditions of the bid document and we do hereby undertake to supply as per these terms and conditions. The Financial Deviations are only those mentioned in the statement of deviations from financial terms and conditions.
6. We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]**

Name of Recipient	Address	Reason	Amount

**(If none has been paid or is to be paid, indicate “none.”)**



7. We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
8. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Certified that the bidder is:

A sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of sole proprietor,

**Or**

A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney,

**Or**

A company and the person signing the bid document is the constituted attorney.

***(NOTE: Delete whatever is not applicable. All corrections/deletions should invariably be duly attested by the person authorized to sign the bid document.)***

We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Dated this day of : .....

Signature of Bidder : .....

Details of enclosures : .....

Full Address: : .....

: .....

: .....

Telephone No : .....

Mobile No : .....

Fax No : .....

E-mail : .....

**Company Seal**

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

**Date:**

To

**The Professor In-charge**  
Central Instrument Facility  
Indian Institute of Technology (Banaras Hindu University)  
Varanasi – 221005, U.P

**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 section(s), schedules(s) etc.), which form part of the contract agreement and I/we shall abide hereby by the terms/conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ 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. In case any provisions of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

**Yours faithfully,**

**(Signature of the Bidder, with Official Seal)**

**FORMAT FOR PERFORMANCE BANK GUARANTEE (PBG)**

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred)

(TO BE ESTABLISHED THROUGH ANY OF THE NATIONALISED COMMERCIAL BANKS (WHETHER SITUATED AT VARANASI OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT VARANASI)

To,  
The Registrar,  
Indian Institute of Technology (BHU),  
Varanasi-221005

**LETTER OF GUARANTEE**

WHEREAS Indian Institute of Technology (BHU), Varanasi (Buyer) has invited tender vide Tender No..... dated..... for purchase of ..... AND WHEREAS the said tender document requires that eligible successful bidder (seller)..... wishing to supply the equipment / machinery etc. in response thereto shall establish an irrevocable Performance Bank Guarantee in favour of “ The Registrar, Indian Institute of Technology (BHU), Varanasi” in the form of Bank Guarantee for Rs ..... (5% of the contract value) and the Performance Bank Guarantee shall remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the seller, including warranty obligations from the date of issue of Performance Bank Guarantee and the eligible successful bidder (the seller) shall submit the same within 14 (Fourteen) days from the date of Award of Contract.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said bidder (seller) fails to abide by any of the conditions referred to in tender document / Award of Contract / performance of the equipment / machinery, etc. this Bank shall pay to Indian Institute of Technology (BHU), Varanasi on demand and without protest or demur Rs ..... (Rupees.....).

This Bank further agrees that the decision of Indian Institute of Technology (BHU), Varanasi (Buyer) as to whether the said bidder (Seller) has committed a breach of any of the conditions referred in tender document / Award of Contract shall be final and binding.

We, ..... (name of the Bank & branch) hereby further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the bidder (Seller) and/ or Indian Institute of Technology (BHU), Varanasi (Buyer). **Notwithstanding anything contained herein:**

1. Our liability under this Bank Guarantee shall not exceed Rs. .... (Indian Rupees ..... only).
2. This Bank Guarantee shall be valid up to .....(date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT (BHU), Varanasi serve upon us a written claim or demand on or before .....(date). This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at ..... situated at ..... (Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address:

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



### Central Instrument Facility

#### ANNEXURE 1

Sl.No	Name of Items / Criteria	Description /Technical Specification
1.	<b>Required System</b>	Users-Friendly and compact XPS system should be able to perform analysis on samples of semi-conductors, metal alloys, ceramics, glasses, polymers, magnetic materials and insulators etc. Instrument should have the features to conduct XPS experiments including imaging, survey spectra, narrow region spectra, depth profiling, angle-dependent studies and <b>UPS</b> analysis (These all are required and must be quoted by the bidder).
2.	<b>X-ray sources</b>	The instrument must be equipped with a standard monochromatic Al K-alpha X-ray source. The monochromator should have Rowland circle quartz crystal for high resolution and high sensitivity X-ray photoelectron spectroscopy. The instrument must provide error-free positioning of the X-ray beam that allows analysis from small to large area XPS analysis. The ultimate XPS energy resolution from conducting as well as non-conducting sample must be at <0.50 eV (FWHM) measured on Ag 3d5/2 and < 0.85 eV for O-C-O component on PET sample.
3.	<b>Vacuum system</b>	Both the sample introduction chamber and analysis chamber should be fitted with individual Turbo molecular pumps (TMP) with a suitable backing pump. An additional titanium sublimation pump should be offered for the analysis chamber. All the pumps and valves must be controlled from system software.
4.	<b>Insertion chamber</b>	Provided with a camera that provides a global view of sample holder.
5.	<b>Analysis chamber</b>	The analysis chamber should have single piece precision-machined alloy to combine optimum magnetic field shielding with precision component alignment along with X-ray protection. Sample insertion must be through an entrance/load lock chamber which allows rapid introduction of samples into the main analysis chamber. The chamber must have a high quality optical camera to view the analysis position on the sample.
6.	<b>Sample holder Stage manipulator</b>	Sample holder to accommodate samples of size $\geq 50$ mm diameter. Sample holder to place at least 10 samples at a time. Dedicated sample holders for powder, fibres and angle dependent studies should be provided. Must have capability of movement in X, Y, Z, tilt and continuous rotation. All the axis must be motorized and must be controllable from the system software Inbuilt Standard samples (Au, Ag and Cu) should be provided for calibration
7.	<b>Electron energy analyser</b>	The electron energy analyser must comprise 180 degree hemispherical analyser with a mean radius of $\geq 120$ mm. The energy scan range should be at least 100 to 1400 eV or wider. Minimum energy step size at different Pass Energies must be specified. The selectable analysis area of sample must be variable from small area to large area analysis. The analyser should be able to acquire XPS measurements in both spectroscopy and mapping analysis modes with at least 128 channels. The analyzer should be capable of quantitative chemical state XPS imaging/mapping with a lateral resolution of at least 50 $\mu$ m or better.
8.	<b>Mode of analysis</b>	(a) The analyser should have the capability of obtaining chemical maps (b) Angle dependent XPS capability with take-off angle varying from 0 to 90. The angle-dependent capability must be controlled with the specimen stage control and maintain the original analysis position as the tilt angle is changed. (c) The instrument must have the capability for effective depth profiling of inorganic

		and organic samples using Ar <sup>+</sup> ion sputter gun. The Ar <sup>+</sup> ion gun should provide ions with variable energy at least between 300eV to ≤4keV.									
9.	<b>Charge Neutraliser system</b>	The instrument must be equipped with a robust charge neutralization system by using low energy electrons or ions. Charge neutralization should be possible during depth profiling analysis. The capability of neutralization should be demonstrated on polyethelene terephthalate (PET) with FWHM < 0.85 eV for the O-C=O peak in the carbon 1s spectrum with a minimum sensitivity of ≥ 10 kcps.									
10.	<b>Sensitivity</b>	The following XPS count rate and energy resolution as a function of analysis area FWHM of the peak of Ag3d5/2 must be met and demonstrated. <table border="1"> <thead> <tr> <th>Mandatory sensitivity for selected area analysis</th> <th>Analysis size (diameter)</th> <th>Resolution (FWHM of Ag 3d5/2 peak)</th> </tr> </thead> <tbody> <tr> <td>≥ 75kcps</td> <td>Small Area</td> <td>≤ 1.00 eV</td> </tr> <tr> <td>≥ 3.5Mcps</td> <td>Large area</td> <td>≤ 1.00 eV</td> </tr> </tbody> </table> <p>Vendors should mention their achievable sensitivity along with X-ray power. Preference would be given to system which has higher sensitivity using lower X- ray power.</p>	Mandatory sensitivity for selected area analysis	Analysis size (diameter)	Resolution (FWHM of Ag 3d5/2 peak)	≥ 75kcps	Small Area	≤ 1.00 eV	≥ 3.5Mcps	Large area	≤ 1.00 eV
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11.	<b>UV Photoelectron Spectroscopy</b>	UV Photoelectron Spectroscopy with two separate high precision gas admission valves for Helium I and Helium II. The data system must be able to start the lamp and operate in He(I) or He(II) modes. A gas discharge source capable of operating with noble gases must be supplied. All differential pumping, gas handling and source operation should be software controlled, so that it can be operated from the data system, and used within complex experiments such as depth profiles. The standard operation must be configured for use with helium, with the data system able to automatically start the lamp and operate in He(I) or He(II) modes. UPS performance must be demonstrated on a clean silver sample. Under identical spectroscopic conditions, a count rate of ≥ 2.0 Mcps must be demonstrated when the resolution at the Fermi edge is < 150 meV. Resolution is defined as the energy difference between the points at which the intensity is 20% and 80% of the maximum value below the Fermi level.									
12.	<b>Vacuum Transfer Module</b>	A sample holder capable of transferring samples from a glove box environment to the vacuum system without exposure to air must be supplied. The sample holder must be able to transfer samples into the vacuum system without operator intervention once the transfer vessel has been introduced into the sample load-lock.									
13.	<b>System software</b>	3 user licenses for professional data analysis software for data processing and evaluation together with reference database must be specified and demonstrated. Software should include extensive spectral databases and spectral searching capability for element identification. Easy to use software packages must be provided for instrument operation, data reduction and automated analysis. Software must offer full control of XPS operation including X-ray source, vacuum management, charge and neutralizer, sample stage, automatic sample height alignment, automatic depth profiling and sequential angle dependent XPS as well as multi task analysis. All parameters and the sequence of tasks must be possible to be pre-defined by the user. Data processing should be done on the computer connected to the equipment but also the data processing facility should be made available on at least 3 desktop/laptop computers for offline data reduction and analysis. Complete data acquisition and analysis including identification, peak fitting and library should be possible. It is also preferred that hardware should be latest Window based system with LCD/LED screen.									
14.	<b>Multi user operation</b>	The supplied system must include features for sample loading, sample handling, vacuum control and data acquisition, allow the spectrometer to be operated in a multi user environment. To make simple and users-friendly it is preferred that the functions like vacuum control, gas handling, sample height adjustment, data acquisition, data interpretation, quantification, data reporting and system calibration should be automated in XPS.									
15.	<b>Network ability</b>	The instrument must allow easy network and exporting of data, images, etc. in standardised formats and have comprehensive remote diagnostics built into the									

		hardware and software.
16.	<b>Computer hardware</b>	Desktop computer system with latest specifications should be provided
17.	<b>Accessories (Compulsory)</b>	<ul style="list-style-type: none"> <li>• The Instruments should be delivered with all accessories necessary to make it fully operational including a <u>re-circulating water chiller and compressor</u>.</li> <li>• A complete set of system baking kit should be built-in including baking-jacket, insulation boards, power supply, temperature control, safety devices etc.</li> <li>• Degas chamber</li> <li>• Tilt Module (if not including in main instrument)</li> <li>• Sample bias module (if not including in main instrument)</li> </ul>
18.	<b>Protection</b>	<p>The XPS instrument must have a safety protection from damage at power fluctuation, vacuum and/or cooling water failure.</p> <ul style="list-style-type: none"> <li>• It is preferred that while baking process should not be any requirement of removing heating filaments/unit in order to make process simple and quick.</li> </ul>
19.	<b>Consumables</b>	<p>Consumables should be provided for trouble free operation for 3 years during the warranty period. A list of consumables should include minimum of below numbers:</p> <ul style="list-style-type: none"> <li>• X-ray anode kit, x 3</li> <li>• Emitter kit, x 3</li> <li>• Charge neutralization filament kit, x 3</li> <li>• Depth profiling Ion gun filament kit, x 3</li> <li>• Channel plate kit, x 3</li> <li>• Sublimation pump filament kit, x 3</li> <li>• Vacuum seal set, x 3</li> <li>• Silica tubes etc.</li> </ul> <p><b>Note:</b> Pl. also quote above items for next five years if required in addition to 3 numbers.</p>
20.	<b>Manuals</b>	A complete instruction manual in English in electronic version must accompany the equipment. Description of all the main functions and operations of that equipment (XPS) must be included in the manual.
21.	<b>Pre installation requirement</b>	Complete technical details of pre-installation requirements should be furnished along with the technical bid.
22.	<b>Installation, and Commissioning</b>	Installation, complete interfacing of the system with its subsystems, and commissioning is to be carried out by the vendor's factory-trained engineers, followed by a demonstration of the system's performance.
23.	<b>Training</b>	Training (at least two times) at IIT BHU should be provided at free of cost.
24.	<b>Warranty</b>	Comprehensive 3 years warranty including visits and spare-parts free of cost (as and when required).
25.	<b>Optional Items</b>	<p>Specification of following items must be given and quoted as optional items</p> <ul style="list-style-type: none"> <li>• Any optional items as required for smooth functioning of the XPS for a central facility.</li> <li>• Nitrogen, Argon and Helium gas cylinders with regulator and Stainless Steel Lines should be quoted separately.</li> </ul>
26.	<b>Additional warranty/AMC</b>	Cost of additional warranty has to be quoted separately in option at least for 2 years.
28.	<b>User List and Performance Certificates</b>	List of 5 users minimum should be provided with Name, Contact details and Email ID (at list two must be for same model/specification)
29.	<b>Specification Support</b>	All the above mentioned specifications should be supported by authentic literature and printed brochures from the manufacturers only.
30.	<b>Conditions</b>	Pl. read carefully out bid condition as enclosed.

### **IMPORTANT TERMS**

**Note:** Bid should include CIP (New Delhi) cost including freight and insurance till New Delhi.

It is preferred that in optional company also quote FOR IIT (BHU), Varanasi prices (Custom Clearance will be the responsibility of the supplier and IIT(BHU) will provide Custom Exemption Certificate). Transportation cost with insurance from New Delhi to IIT (BHU) Varanasi should also be clearly mentioned separately as optional.

Skilled manpower is preferred for smooth operation and maintenance of the Instrument for 6 days in a week basis for 3 years period (Pl. quote separately year wise as optional item).

**Safety devices:** Safety devices against power/vacuum/water/air/gas failures.

### **OTHER TERMS:**

1. **Spares:** state availability of spares for ten years.
2. **Indian agency commission:** Should be clearly stated in the financial bid in Indian currency.
3. **Consumable & spares:** List of the consumables and spares to be supplied with the system.
4. **Penalty:** A penalty of 1% of the order value will be applied for late delivery of the goods for each week thereof subject to a maximum of 10%.
5. **Performance Security/ Performance Bank Guarantee (PBG):** Successful bidder have to furnish **5% of the order value** as a performance security in the shape of Fixed Deposit Receipt / Bank Guarantee in favour of the Registrar, Indian Institute of Technology (BHU) which will be valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. Fixed Deposit Receipt / Bank Guarantee should be issued from a schedule bank in India. Bank guarantee is only applicable for the Supplier who will get the Award of Contract and will submit at the time of installation of the instrument.
6. **Payment:** Payment will be made 90 % by Bill Basis or by letter of credit i.e. 90% payment against shipment and rest 10% on successful installation and submission of PBG after satisfactory installation and submission of PBG @ 5% of order value valid for period of 60 days beyond all warranty obligations.
7. **User List:** Provide users for last 5 years with contact person name, address, phone, and email IDs.
8. **Manuals/Documents:** 1 set of hard copy and 1 set of soft copy in English (preferred as following).
  - i. Operating manual
  - ii. Maintenance manual
  - iii. Servicing manual
  - iv. Programming manual
  - v. Spare parts list with source of supply and prices
  - vi. Description of control interface
  - vii. Circuit diagrams of PLC, drive controls etc
  - viii. Manuals of bought out items incorporated in the system
  - ix. Details of any custom made ICs & components & their sources
  - x. Flow charts of all resident software
  - xi. Test Chart
  - xii. Pre-installation requirements of foundation plan details, electromagnetic interference and vibration.
9. Details of the standard samples to be provided by the company for testing the instruments at the time of installation at site for the demonstration of the performance of equipment.
10. Please provide the segmented quotation for each optional measurement capability.
11. The Tender document should also indicate what kind of service/maintenance is required for the system. Whether this service has to be carried out by a company engineer or it can be carried by trained service personnel within India. The frequency of visit and the charges should be mentioned.
12. The Tender should be enclosed with proper certifications like Authorization Certificate and Proprietary Certificate in case of Proprietary items.
13. Complete computer control of operation and measurement on Windows based platform. Give the details of software for measurement and analysis.
14. Pre-installation site preparation/inspection requirements to be indicated and specified along with the bid.
15. Installation and training should be provided free of cost otherwise clearly mentioned with justification.

16. Warranty period to be clearly mentioned and should begin from the date of installation. Annual Maintenance Contract Charges should be clearly mentioned after warranty period.
17. Guaranteed specifications to be demonstrated at the time of installation. Any necessary standard samples for that purpose should be brought by the Service Engineers.
18. On – site training of our staff in operation and maintenance is essential by factory trained personal and provision for training for one person for minimum one week at factory site.
19. Service manuals with complete circuit diagram and PCB layout for all equipment to be provided with the instrument.
20. Submit Electronic copy of the Technical specifications and bids.
21. The vendor to provide compliance statement with respect to each technical specification in the tender document duly supported by the manufacturer’s literature. Any other claim will not be accepted and may lead to rejection of the bid.
22. Printed literature in support of compliance to the prescribed specifications is to be submitted. However, Institute reserves the right to accept or reject the compliance to the prescribed specifications given by the company in view of lack of sufficient evidence and proofs.
23. Compliance report needs to be submitted as a part of the technical bid.
24. In case during shipment period newer versions of software/hardware is available with vendor in lieu of the existing one for which Letter of Credit was opened, then improved version should be made available without any extra cost.
25. Institute reserves the right to visit installation in India of similar capabilities the details with to regard to such installation should be given as a part of technical bid.
26. Institute reserves the right to cancel the bid any time without giving any reason.
27. Technical evaluation by the Institute may include demonstration to verify functionalities and capabilities of the system quoted.
28. **Services:** Vendor must submit Factory Acceptance Test procedure supported with relevant printed literature and certificates.

sd/-

(Professor In-charge)

Central Instrument Facility, IIT (BHU)



**TECHNICAL COMPLIANCE STATEMENT**  
(To be submitted by bidder duly filled)

Sl.No	Name of Items / Criteria	Description /Technical Specification	YES/ NO
1.	<b>Required System</b>	Users-Friendly and compact XPS system should be able to perform analysis on samples of semi-conductors, metal alloys, ceramics, glasses, polymers, magnetic materials and insulators etc. Instrument should have the features to conduct XPS experiments including imaging, survey spectra, narrow region spectra, depth profiling, angle-dependent studies. <b>UPS analysis</b>	
2.	<b>X-ray sources</b>	The instrument must be equipped with a standard monochromatic Al K-alpha X-ray source. The monochromator should have Rowland circle quartz crystal for high resolution and high sensitivity X-ray photoelectron spectroscopy. The instrument must provide error-free positioning of the X-ray beam that allows analysis from small to large area XPS analysis. The ultimate XPS energy resolution from conducting as well as non-conducting sample must be at <0.50 eV (FWHM) measured on Ag 3d5/2 and < 0.85 eV for O-C-O component on PET sample.	
3.	<b>Vacuum system</b>	Both the sample introduction chamber and analysis chamber should be fitted with individual Turbo molecular pumps (TMP) with a suitable backing pump. An additional titanium sublimation pump should be offered for the analysis chamber. All the pumps and valves must be controlled from system software. Vacuum gauge should also present for intro and main chamber.	
4.	<b>Insertion chamber</b>	Provided with a camera that provides a global view of sample holder.	
5.	<b>Analysis chamber</b>	The analysis chamber should have single piece precision-machined alloy to combine optimum magnetic field shielding with precision component alignment along with X-ray protection. Sample insertion must be through an entrance/load lock chamber which allows rapid introduction of samples into the main analysis chamber. The chamber must have a high quality optical camera to view the analysis position on the sample.	
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11.	<b>UV Photoelectron Spectroscopy</b>	UV Photoelectron Spectroscopy with two separate high precision gas admission valves for Helium I and Helium II. The data system must be able to start the lamp and operate in He(I) or He(II) modes. A gas discharge source capable of operating with noble gases must be supplied. All differential pumping, gas handling and source operation should be software controlled, so that it can be operated from the data system, and used within complex experiments such as depth profiles. The standard operation must be configured for use with helium, with the data system able to automatically start the lamp and operate in He(I) or He(II) modes. UPS performance must be demonstrated on a clean silver sample. Under identical spectroscopic conditions, a count rate of ≥ 2.0 Mcps must be demonstrated when the resolution at the Fermi edge is < 150 meV. Resolution is defined as the energy difference between the points at which the intensity is 20% and 80% of the maximum value below the Fermi level.										
12.	<b>Vacuum Transfer Module</b>	A sample holder capable of transferring samples from a glove box environment to the vacuum system without exposure to air must be supplied. The sample holder must be able to transfer samples into the vacuum system without operator intervention once the transfer vessel has been introduced into the sample load-lock.										
13.	<b>System software</b>	<p>3 user licenses for professional data analysis software for data processing and evaluation together with reference database must be specified and demonstrated. Software should include extensive spectral databases and spectral searching capability for element identification.</p> <p>Easy to use software packages must be provided for instrument operation, data reduction and automated analysis.</p> <p>Software must offer full control of XPS operation including X-ray source, vacuum management, charge and neutralizer, sample stage, automatic sample height alignment, automatic depth profiling and sequential angle dependent XPS as well as multi task analysis. All parameters and the sequence of tasks must be possible to be pre-defined by the user.</p> <p>Data processing should be done on the computer connected to the equipment but also the data processing facility should be made available on at least 3 desktop/laptop computers for offline data reduction and analysis.</p> <p>Complete data acquisition and analysis including identification, peak fitting and library should be possible.</p> <p>It is also preferred that hardware should be latest Window based system with LCD/LED screen.</p>										
14.	<b>Multi user operation</b>	The supplied system must include features for sample loading, sample handling, vacuum control and data acquisition, allow the spectrometer to										

		be operated in a multi user environment. To make simple and users-friendly it is preferred that the functions like vacuum control, gas handling, sample height adjustment, data acquisition, data interpretation, quantification, data reporting and system calibration should be automated in XPS.	
15.	<b>Network ability</b>	The instrument must allow easy network and exporting of data, images, etc. in standardised formats and have comprehensive remote diagnostics built into the hardware and software.	
16.	<b>Computer hardware</b>	Desktop computer system with latest specifications should be provided	
17.	<b>Accessories (Compulsory)</b>	<ul style="list-style-type: none"> <li>• The Instruments should be delivered with all accessories necessary to make it fully operational including a <u>re-circulating water chiller and compressor</u>.</li> <li>• A complete set of system baking kit should be built-in including baking-jacket, insulation boards, power supply, temperature control, safety devices etc.</li> <li>• Degas chamber</li> <li>• Tilt Module (if not including in main instrument)</li> <li>• Sample bias module (if not including in main instrument)</li> </ul>	
18.	<b>Protection</b>	<p>The XPS instrument must have a safety protection from damage at power fluctuation, vacuum and/or cooling water failure.</p> <ul style="list-style-type: none"> <li>• It is preferred that while baking process should not be any requirement of removing heating filaments/unit in order to make process simple and quick.</li> </ul>	
19.	<b>Consumables</b>	<p>Consumables should be provided for trouble free operation for 3 years during the warranty period. A list of consumables should include minimum of below numbers:</p> <ul style="list-style-type: none"> <li>• X-ray anode kit, x 3</li> <li>• Emitter kit, x 3</li> <li>• Charge neutralization filament kit, x 3</li> <li>• Depth profiling Ion gun filament kit, x 3</li> <li>• Channel plate kit, x 3</li> <li>• Sublimation pump filament kit, x 3</li> <li>• Vacuum seal set, x 3</li> <li>• Silica tubes etc.</li> </ul> <p><b>Note:</b> Pl. also quote above items for next five years if required in addition to 3 numbers.</p>	
20.	<b>Manuals</b>	A complete instruction manual in English in electronic version must accompany the equipment. Description of all the main functions and operations of that equipment (XPS) must be included in the manual.	
21.	<b>Pre installation requirement</b>	Complete technical details of pre-installation requirements should be furnished along with the technical bid.	
22.	<b>Installation, and Commissioning</b>	Installation, complete interfacing of the system with its subsystems, and commissioning is to be carried out by the vendor's factory-trained engineers, followed by a demonstration of the system's performance.	
23.	<b>Training</b>	Training (at least two times) at IIT BHU should be provided at free of cost.	
24.	<b>Warranty</b>	Comprehensive 3 years warranty including visits and spare-parts free of cost (as and when required).	
25.	<b>Optional Items</b>	<p>Specification of following items must be given and quoted as optional items</p> <ul style="list-style-type: none"> <li>• Any optional items as required for smooth functioning of the XPS for a central facility.</li> <li>• Nitrogen, Argon and Helium gas cylinders with regulator and Stainless Steel Lines should be quoted separately.</li> <li>•</li> </ul>	
26.	<b>Additional warranty/AMC</b>	Cost of additional warranty has to be quoted separately in option at least for 2 years.	

28.	<b>User List and Performance Certificates</b>	List of 5 users minimum should be provided with Name, Contact details and Email ID (at list two must be for same model/specification)	
29.	<b>Specification Support</b>	All the above mentioned specifications should be supported by authentic literature and printed brochures from the manufacturers only.	
30.	<b>Conditions</b>	Pl. read carefully out bid condition as enclosed.	

**Signature of the Authorized  
Official with Seal**

**PREVIOUS SAME ORDER EXECUTED**

Please quote best minimum prices applicable for a premier Educational and Research Institution. The party must give details of purchase orders identical or same equipment supplied to any IITs/NITs/University/CFTIs as per below Format in last Three years (to be uploaded in Cover 1) along with the final price paid, these details are mandatory.

Name of the Firm \_\_\_\_\_

Order placed by (Full address of Purchaser)	Order No. and Date	Description and quantity of ordered equipment	Value of Order	Date of completion as per contract	Has the Equipment being installed satisfactorily (Attach a Certificate from the Purchaser/ Consigner)	Contact Person along with Telephone No., Fax No. and e-mail address.

*(Kindly enclose the scan copy of aforementioned purchase orders)*

**Details of Technical Expert**

<b>Name of application specialist/Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.</b>		
Name of the organization	Name of Contact Person	Contact No.

Signature and Seal of the Manufacturer /

Bidder \_\_\_\_\_

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

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

**BID SUBMISSION****Online Bid Submission:**

The Online bids (complete in all respect) must be uploaded online in **two** covers as explained below:

<b>Cover – 1</b>			
(Following documents to be provided as .pdf file)			
<b>Sl. No.</b>	<b>Document</b>	<b>Content</b>	<b>File Types</b>
1.	Technical Bid	Technical Compliance Sheet, Bidder information form	.PDF
2.		Organization Declaration Sheet, Compliance sheets for Essential Pre Bid Criteria	.PDF
3.		Checklist given in Section 5, Tender Acceptance, Tender Form, etc.	.PDF
4.		List of organizations/clients where the same products have been Supplied (in last two years) along with their contact number(s). (Annexure-3)	.PDF
5.		Technical supporting documents in support of all claims made at Annexure-1	.PDF
6.		EMD and Tender fee submission proof	.PDF
7.		Brochure of quoted product and other documents, if any	.PDF
<b>Cover – 2</b>			
<b>Sl. No.</b>	<b>Document</b>	<b>Content</b>	
1	Price Bid	Duly filled and signed Tender form (Price Bid)	.PDF
2.		Duly signed BOQ in .pdf format	.PDF
3.		BoQ in .xls Format	.XLS