



# CENTRAL UNIVERSITY OF SOUTH BIHAR

SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur, P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

## Notice Inviting Tender (NIT)

The Central University of South Bihar invites sealed tenders for the Supply & Installation of **“Supply & Installation of Lab Equipments”** at **Department of Physics, Central University of South Bihar, Panchanpur, Gaya** from original manufactures/ authorized dealers/ distributors. The last date and time of submission of tender document is **28/06/2024 by 4:00 PM**. The detailed tender document is available on the University website [www.cusb.ac.in](http://www.cusb.ac.in) and CPP portal. The cost of tender form is Rs. 500/- and can be purchased by payment in the form of Demand Draft, from Central University of South Bihar. The tender forms can also be downloaded from University website and be accompanied by DD of Rs. 500/- in favour of ‘Central University of South Bihar’, payable at Gaya. The last date for submission of Tender documents is **28/06/2024 by 4:00 PM** send to the below mentioned address by registered post / speed post/ in drop box (Tender Box).

To,

**The Registrar**

(Tender Document)

**Central University of South Bihar**

**SH-7, Gaya- Panchanpur Road,**

**Village- Karhara, Post- Fatehpur**

**P.S- Tekari, District- Gaya (Bihar), PIN- 824 236**

Email- [registrar@cub.ac.in](mailto:registrar@cub.ac.in)

Website- [www.cusb.ac.in](http://www.cusb.ac.in)

Contact – 0631-2229519

### Index for Tender Form

Sl. No.	Items	:	Details
1.	Tender Notice No. and date	:	<b>CUSB/PHY/FIST/T/01/2024, Date: 24/05/2024.</b>
2.	Name of work	:	Tender Bid Document for the Supply & Installation of <b>“Supply &amp; Installation of Lab Equipments”</b> at Department of Physics, Central University of South Bihar
3.	Tender Fee	:	Rs. 500/- in form of Demand Draft
4.	Earnest Money Deposit	:	Earnest money as mentioned in NIT in shape of Demand Draft drawn in favour of Central University of South Bihar, payable at Gaya from any scheduled Bank of amount as per <b>Annexure ‘A’</b> .
5.	Start of submission of Bids	:	24/05/2024
6.	Last date and time for Receipt of Bids	:	28/06/2024 by 4:00 PM
7.	Date and Time of opening of Technical Bids	:	02/07/2024 by 2:30 PM.
8.	Place of opening of Bids	:	CUSB Gaya.



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**Name of the work:** Tender Bid Document for the Supply & Installation of “**Supply & Installation of Lab Equipments**” at **Department of Physics, Central University of South Bihar, Gaya (Bihar)**.

Sold to Sri/Smt./M/s.

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

On payment of Rs. 500/- (Rupees Five Hundred only)

Vide D.D. No. .... Bank & Branch ..... dt.....

**Registrar**

I undertake to abide by the terms and conditions as stipulated in the detail tender call notice and conditions of contract.

**Signature of the contractor**

For Office Use only

- |                                      |   |                          |
|--------------------------------------|---|--------------------------|
| 1. Total Nos. Corrections            | : |                          |
| 2. Total Nos. of Overwriting         | : |                          |
| 3. Total Nos. of Pages               | : |                          |
| 4. Earnest Money Deposit in shape of | : |                          |
| 5. Copy of S.T.C.C                   | : | Furnished/Not Furnished  |
| 6. Copy of I.T.C.C./PAN              | : | Furnished/ Not Furnished |
| 7. Any other enclosure               | : |                          |

**Registrar**  
**Central University of South Bihar**



Supply & Installation of “**Supply & Installation of Lab Equipments**” at Department of Physics, Central University of South Bihar, Gaya.

**Technical Bid**

**Note:** This is to be kept in **Envelope “B”** sealed and it should be written on envelope that Technical Bid for **Tender for the Supply & Installation of “Supply & Installation of Lab Equipments”** at Department of Physics, Central University of South Bihar, Gaya (Bihar).



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## NOTICE INVITING BIDS

The Central University of South Bihar (CUSB), invites sealed tender in two bid system for the Supply & Installation of **“Scanning Tunneling Microscope with vacuum attachment”** at **Department of Physics, Central University of South Bihar, Gaya (Bihar)** from the original manufactures/authorized dealers/ distributors. Details are as follows:

Sl. No	Description of Goods	Earnest Money to be Deposited	Last date & time of submission of e-Tender document	Time & date of opening of e-Tender	Time allowed for completion of delivery and installation
1.	Supply & Installation of <b>“Supply &amp; Installation of Lab Equipments”</b> at Department of Physics, Central University of South Bihar, Gaya.	As per Annexure ‘A’	28/06/2024 by 4:00 PM	Shall be intimated on University website.	90 days after issue of Purchase Order/Work Order

2. The tender must be accompanied by a Demand Draft for the amount mentioned in **Annexure “A”** in Indian Rupees only (alongwith list of quoted items with EMD details), on a schedule bank drawn in favour of Central University of South Bihar, payable at Gaya as Earnest Money for the above tender.

### 3. Eligibility Criteria (details to be submitted in Annexure “B”)

#### 3.a. Financial

The Firm should have average annual financial turnover of 1 crore for equipments equal or above cost Rs. 25 lakh and turnover Rs. 25 Lakh for equipment less than 25 lakh during the preceding last 03 consecutive financial years starting from F.Y. 2018-19 to know the financial capability of the firm and supply credentials.

#### 3.b. Physical

Three similar supplies in Central Government/ State Government/ PSU/ Universities/ Reputed Higher Educational Institutions costing not less than 40% of the cost or two similar supplies costing not less than 60% of the estimated cost or one similar supplies costing not less than 80% of the estimated cost in the last 3 years ending on the last day of the month previous to the one in which the tenders are invited.

4. **Tender documents duly signed on all pages** are required to be delivered at Central University of South Bihar, by Registered Post/ Speed Post/By Hand (to be submitted in Tender Box) to reach on or before **28/06/2024 by 4:00 PM**. The Technical Bids will be opened at CUSB, Gaya in presence of the Tenderers or their authorized representatives who wish to attend.

5. The tenderer shall quote for the materials to be supplied as per detailed specifications as given in the tender document, at Gaya.
6. For any clarification and doubt related with the Tender, Tenderers should email their queries to [registrar@cusb.ac.in](mailto:registrar@cusb.ac.in).
7. The tender shall be submitted in three separately sealed envelopes marked as "A", "B", & "C". The language used shall be English. In case any information is given in foreign language, then translated (in English) copies of those pages must be enclosed, failing which the tender will be disqualified.

## 8. ENVELOPE 'A' (Earnest Money & Tender Cost)

The tender shall be accompanied by the cost of the tender document for Rs. 500/- (Indian Rupees five hundred only) in the form of Demand Draft failing which the tender will not be accepted. Tender must also be accompanied by earnest money as mentioned in **Annexure 'A'** in the form of Demand Draft in favour of Central University of South Bihar, payable at Gaya executed by any Scheduled Bank. The Demand Draft towards Earnest Money & cost of tender document will be placed in sealed **Envelope 'A'**.

- 8.a. The tender cost and EMD are not required to be submitted by bidders who are exempted in terms of MSME, Govt. of India guidelines. However, they are required to furnish requisite certificate in this regard issued by the Competent Authority.

## 9. ENVELOPE 'B' (Technical Bid Document)

- 9.i. Those Tenderers, who are not the manufacturer but are authorized by the original manufacturer to supply the goods, should establish their credentials by giving valid documentary evidences of similar supplies to have been executed in India.

### 9.ii. Checklist for Envelope 'B'

- 9.ii.a. Copy of registration of GST.
- 9.ii.b. Copy of Income Tax Permanent Account Number.
- 9.ii.c. Copy of Trade License, Factory License/Excise Registration.
- 9.ii.d. Copy of Memorandum and Article of Association, Certificate of Incorporation, Partnership Deed, Registration Certificate issued by the Registrar of Firms etc.
- 9.ii.e. Copy of Authorization for Participation in subject bid (not required in case of Proprietorship firm).
- 9.ii.f. Copy of Dealership/ Distributorship Authorisation Certificate.
- 9.ii.g. Copy of Small Scale Unit/ MSME/ NSIC Registration under relevant items (if registered).
- 9.ii.h. All pages of tender document including various sections and Annexure 'A', except priced bid duly signed / sealed by the Tenderer.
- 9.ii.i. Any product manual, credentials etc.

## 10. Envelope 'C' (Financial Bid Document)

10.1. The **Envelope 'C'** shall contain the tender documents and information related to the schedule of quantities quoting the rates per Unit/Price etc. of the item pertaining to the Financial Bid on the Financial Bid document, issued by CUSB, along with the tender document.

**The Financial Bid should be submitted separately in separate envelope clearly mentioning the Financial Bid is submitted on top of the Envelope.**

10.2. All columns shall be duly filled in with specific information on the cost involved.

10.3. The rates for the items shall be quoted in Indian Rupees only.

**\*NOTE** The Tenderer should clearly mention in all the three envelopes (i.e. A, B and C) clear description of the items for which the offer is being quoted. If any discrepancy is observed the offer would be treated as non-responsive and would be rejected outrightly.

11. 

- **Envelope 'A'** (Earnest Money & Tender Cost),
- **Envelope 'B'** (Technical Bid Document), and
- **Envelope 'C'** (Financial Bid Document), shall be in separate sealed envelopes, each marked as "**Envelope 'A'**, **Envelope 'B'** and **Envelope 'C'**", respectively.

- All the three envelopes shall be submitted together in another big envelope sealed and super-scribing thereon **Tender for Supply & Installation of "Scanning Tunneling Microscope with vacuum attachment"** at **Department of Physics, Central University of South Bihar, Gaya (Bihar)** alongwith **Tender Number**.

- The envelope should be addressed to, The Registrar (Tender Document), Central University of South Bihar, SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur, P.S- Tekari, District- Gaya (Bihar), PIN- 824 236

- The envelope marked **Envelope 'B'** of only those Tenderers shall be opened, whose earnest money & tender cost are placed in the **Envelope 'A'** and found to be in order. In case of waiver of the charges, relevant documents shall be submitted in **Envelope 'A'**.

12. The Tender Evaluation Committee will evaluate the Technical Bids and is fully authorized to reject any incomplete tender or on its satisfaction that the requirements are not met for the complete need of the CUSB with regard to the Committee. The decision of the Tender Evaluation Committee shall be final. Only those Technical Bids cleared by the Tender Evaluation Committee shall be eligible for consideration of Price Bid. Those successful Tenderers for whom the **Envelope 'C'** (Price Bid) is to be opened shall be duly intimated.

## 13. Clarification on Tender Documents

13.1. During evaluation of tenders, the University authorities/ committee may at its discretion ask the Tenderer for any clarification(s) if so deemed fit. The request for clarification and the response shall be in writing. However, the Tenderer is not permitted to alter the price(s) furnished in the Price Bid (**Envelope 'C'**).

13.2. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price (i.e. obtained by multiplying the unit price and quantity), the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of errors, its tender will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

14. The amount of Earnest Money Deposit (EMD), in case of successful Tenderer, shall be refunded on successful completion of delivery/installation. However, EMD of unsuccessful Tenderers will be refunded after the award of the contract to the successful Tenderer.

15. The CUSB, does not bind itself to accept the lowest or any other tender, and reserves the authority to reject any or all the tenders received without assigning any reason. Tenders not in compliance with any of the prescribed conditions or incomplete in any respect or in presence of any correction not duly dated, initialed by the Tenderer will be liable to be rejected. However, the final decision for accepting or rejecting any or all tenders will be in the sole discretion of Vice Chancellor, CUSB.
  
16. Tender shall remain open for acceptance for a period of **90 days** from the date of opening of the tenders. If any Tenderer withdraws his tender before the said period or makes any modifications in the terms and conditions of the tender which are not acceptable to CUSB, then CUSB, shall without any prejudice to any other right or remedy, be at liberty to forfeit full earnest money, absolutely. The decision of Vice Chancellor, CUSB in this behalf shall be final and binding on the Tenderer.
  
17. The notice Inviting tender shall form a part of the contract document.
  
18. No additional conditions from the Tenderer shall be acceptable. The tenders having any additional conditions will be summarily rejected without assigning any reason.

Date:

Place:

**Signature of the Tenderer**



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## TECHNICAL BID PROFORMA

<b>NIT No. :</b>	<b>CUSB/PHY/FIST/T/01/2024, Date: 24/05/2024.</b>				
<b>Sub.: Supply &amp; Installation of Lab Equipments at Department of Physics, Central University of South Bihar</b>					
<b>1.</b>	Name of the Organization				
<b>2.</b>	Head Office / Registered Office				
	Telephone No/mobile No.				
	Fax No.				
	Email				
	Web site (if any)				
	Date of Establishment				
	Branch Office in Gaya , if any				
	(Provide Complete Address)				
	Telephone No.				
	Fax No./Email				
<b>3.</b>	Name of Chief Executive/ Proprietor / Partners with Designation				
	Telephone No./Mobile No.				
	Fax No./ Email				
<b>4.</b>	Name of Contact Person				
	Telephone No./Mobile No				
	Fax No./Email				
<b>5.</b>	<b>Type of Organization</b>		<b>Certified Documents to be enclosed</b>		
<b>a.</b>	Proprietary		Trade License		
<b>b.</b>	Partnership		Partnership Deed, Trade License		
<b>c.</b>	Private Limited Company		Memorandum of Article		
<b>d.</b>	Public Limited Company		Certificate of Registration		
<b>e.</b>	Public Sector		Trade License		
<b>6.</b>	<b>Nature of Business (tick the relevant)</b>				
Manufacturing		<input type="checkbox"/>	Service	<input type="checkbox"/>	Dealership
Stockiest		<input type="checkbox"/>	Indian Agent	<input type="checkbox"/>	Indian Branch Office
Others Pl. Specify					



7. Class / Type of Product / Materials Manufactured / Sold / Serviced/ Fabricated					
Scientific Equipment		Electronics		Lab Consumables & Chemicals	
Electrical Items		Computer Peripherals		Computers	
Laboratory Equipments		Office Automation Product		Electrical Works	
Sport Materials		Water Coolers		Air-conditioners	
AV Equipments		Boards		Other, please specify.....	

**Audited Annual Turnover during last 3 years (Rs. In Lakhs) (enclose Chartered Accountant's certification & Income Tax Return Copy)**

Year	Rupees (in Lakhs)	Annexure (Number)
2019-20		
2018-19		
2017-18		

8. Commercial Information (enclose Attested Copy wherever Applicable)				
S. No.	Information	Details		Annexure (Number)
a.	GST Registration Number			
b.	Excise Registration Number Trade / Factory License Number			
c.	PAN No.			
d.	Details of Registration Certificate with DGS&D/NCCF			
e.	SSI/NSIC/MSME Certificate			
f.	Current dealership agreement with Principal Letter No. / Date / Valid upto			
g.	Relevant IISI/ SO Certificate, if any			
h.	<u>Bank Details :</u> Account No.			
i.	Name of Bank & Branch			
j.	IFSC Code			
k.	Details of Tender Fee	Amount:	DD No. & Date	Name of the issuing Bank & Branch
l.	Details of EMD	Amount:	DD No. & Date	Name of the issuing Bank & Branch

<b>m.</b>	Details of Previous Supply in Govt. Organisations/ Govt. Educational Institutions (Enclose Supply order & Performance report. If required enclose separate sheets) Enclosures -	Name of the organization	Item Supplied / Qty.			Total Value (Rs in lakhs)
<b>9.</b>	MSME Entrepreneur	Comment				
<b>9.1.</b>	Is the bidder MSME Entrepreneur	Y/N				
<b>9.2.</b>	If yes, the category (GEN/OBC/SC/ST/Women)	GEN	OBC	SC	ST	WOMEN
I/ We hereby give an undertaking that the information provided are true to the best of my knowledge and belief. If anything found to be false at any stage my tender will be liable to be rejected and EMD amount will be forfeited.						
<b>Signature of authorized representative:</b> .....						
<b>Date:</b> .....						
<b>10.</b>	<b>Note</b>					
<b>10.1.</b>	Separate information sheet may be provided for item (s) in case space provided is not adequate.					
<b>10.2.</b>	Affidavit in the enclosed format on Non Judicial stamp paper duly attested by Magistrate/Notary shall also be furnished by the bidder.					



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## Check List

### Document to be submitted with Tender

S. No.	Particular	Yes / No	Annexure No
	<b>Envelope - A</b>		
1.	Tender Fee (DD)		
2.	EMD Cost (DD)		
3.	Exemption of EMD (Requisite Certificates)		
	<b>Envelope - B</b>		
4.	ITR of last 3 Years		
5.	Audit Copy of Last Three Years		
6.	Experience of same work (Work / Supply Order etc.)		
7.	GST Registration		
8.	PAN Card		
9.	Duly Filled Tender Document (All the pages should be signed & stamped)		
10.	Dealership / Distributor / Authorization Certificate		
11.	Trade/Factory License		
12.	ISI/ISO Certificate		
13.	Non – Blacklisting Affidavit / Undertaking		
14.	Any product manuals/ credentials etc.		
	<b>Envelope - C</b>		
15.	Price Bid / Financial Bid		

N.B.

1. The Bidder ensure that all the documents/confirmations required as per the tender document are enclosed in the tender and no column is left blank. It is the responsibility of bidder to ensure furnish all required documents, as per the tender document.



**GENERAL CONDITIONS OF PURCHASE**

**1. Definitions**

1.1. In this Purchase, 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 Purchase Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- (c) "The Goods" means all the items, which the Supplier is required to supply to the Purchaser under the Contract;
- (d) "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;
- (e) "GCP" means the General Conditions of Purchase contained in this section.
- (f) "The Purchaser" means the organization purchasing the Goods i.e **CENTRAL UNIVERSITY OF SOUTH BIHAR, GAYA.**
- (g) "The Purchaser's country" is India.
- (h) "The Supplier" means the individual or firm supplying the Goods and Services.
- (i) "Day" means calendar day.

**2. Application**

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

**3. Standards**

3.1. The Goods supplied under this Purchase 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 Purchase Documents and Information**

- 4.1. The Supplier shall not, without the Purchaser's prior written consent, disclose the Purchase, 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**

5.1. 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 completed 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.
- 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 GCP Clause 7 shall in any way release the Supplier from any warranty or other obligations under this Contract.
- 8. Consequences of rejection**
- 8.1. 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 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 specified period 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 University 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**

- 11.1. 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 risk and strike.

## **12. Transportation**

- 12.1. 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 **as per annexure enclosed** or Warranty-card whichever is later 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. The payment shall be made after inspection of the materials and satisfactory performance.
- 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 fulfilment of other obligations stipulated in the contract.

## **15. Prices**

- 15.1. Prices charged by the Supplier for Goods delivered and Services performed under this Purchase shall not vary from the prices quoted by the Supplier in his bid.
- 15.2. **The prices quoted by the supplier must be F.O.R. Department of Physics, Central University of South Bihar, Gaya, Panchanpur campus.**
- 15.3. **Price should be quoted in Indian Rupees (INR) only.**

## **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**

- 17.1. Subject to GCP 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**

- 18.1. 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**

- 19.1. 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 GCP 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 GCP 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 GCP Clause 21, unless an extension of time is agreed upon pursuant to GCC Clause 20.2 without the application of liquidated damages.

**21. Penalty**

- 21.1. Subject to GCP 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 GCP Clause 20; or
- (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;”

**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 GCP 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**

**24.1.** 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**



27.1. 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**

29.1. 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. All legal disputes arising out of this contract /bid shall be subject to competent court and forum under judicature of Gaya only.

31. Submission of Performance Bank Guarantee as per GFR Rules 2017 (if applicable).

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# CENTRAL UNIVERSITY OF SOUTH BIHAR

SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur, P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

## Annexure 'A'

### List of Equipments and EMD Amount

Sl. No.	Item description with specification (Attach separate sheet, if required)	Estimated Cost (Rs.)	Qty. (Nos.)	EMD Amount (Rs.)	Annexure Sl. No. [w.r.t. tender clause No. 3 (Eligibility Criteria)]	Warranty (in years)
1.	Scanning Probe Microscope including MFM, EFM, Lithography, SRM, SCM, KPFM, PFM and STM (Specifications as per annexure-I)	6500000	01	150000		3 years
2.	Liquid Nitrogen Plant (Specifications as per annexure-I)	4500000	01	100000		3 years



## Annexure-I

### Technical Specifications

#### 1. Scanning Probe Microscope including MFM, EFM, Lithography, SRM, SCM, KPFM, PFM and STM

The Scanning Probe Microscope must be capable of physical properties characterization with high spatial resolution down to atomic level. It must enable nano and micro research in various research fields. Including characterization of surface topography, force, spectroscopy etc...

<b>Tender Specification</b>
<b>Basic AFM System Configuration:</b> AFM must equip with a professional closed loop XYZ piezotube scanner with low noise capacitance sensors. The CL scanner should be controlled by a workstation and software, precision manual XY sample stage, control electronics, computer, software and accessories.
<b>XYZ piezo Scanner with Closed-Loop Feedback</b> <ul style="list-style-type: none"><li>▪ Closed loop feedback is used for the AFM scan</li><li>▪ XYZ scanner with closed-loop feedback control.</li><li>- Scan range: Maximum 100×100×10µm</li></ul> AFM Resolution: 0.01nm or better Closed loop Resolution: XY: 0.3 nm, Z: 0.03 nm or better Linearity: XY - <0.1%, Z - <0.1% or better
<b>XYZ scan in low regime</b> <ul style="list-style-type: none"><li>- Scan range: 3x3x3µm</li></ul> Open loop Resolution: XY: 0.05 nm, Z: 0.01 nm or better
<b>Noise</b> Low noise XY sensor: <0.3 nm. Metrological Z sensor: <0.03 nm or better XY RMS noise in 1000 Hz bandwidth: 0.3 ppm RMS or better Z RMS noise in 1000 Hz bandwidth: 0.3 ppm RMS or better
<b>Universal AFM Head</b> <ul style="list-style-type: none"><li>▪ 650 nm laser wavelength.</li><li>▪ possibility of measurement in air and liquid (as optional)</li><li>▪ probe holder for operation in air</li><li>▪ adjustment system of optical registration</li></ul>
<b>Video Optical Microscope</b> <ul style="list-style-type: none"><li>▪ Provides the intuitive on-axis top view of a sample with high clarity</li><li>▪ 1MP CCD/CMOS USB camera or better</li></ul>
<b>High Resolution CCD Camera</b> <ul style="list-style-type: none"><li>▪ High resolution colour CCD Camera</li><li>▪ manual focus system</li></ul>
<b>Digital Controller</b> <ul style="list-style-type: none"><li>- ADC/DAC of 16 to 20 Bit</li><li>- Image pixel resolution of 8000 x 8000</li><li>- Number of images must be acquired during one scanning cycle: Up to 16</li><li>- Algorithm Gentle approach</li><li>- Other requirements</li></ul>

<b>Tender Specification</b>
<ul style="list-style-type: none"> <li>a) Integrated demodulator for X,Y,Z capacitive capacitance sensors</li> <li>b) Open/Closed-loop mode for X,Y control</li> <li>c) Generator frequency setting range: DC – 5 MHz</li> <li>d) Deflection registration channel bandwidth: 170 Hz - 5 MHz</li> <li>e) Lateral Force registration channel bandwidth: 170 Hz - 5 MHz</li> <li>f) 2 additional registration channel bandwidth: 170 Hz - 5 MHz</li> <li>g) Bias Voltage: <math>\pm 10</math> V bandwidth 0 – 5 MHz</li> <li>h) Modulating signals supply: To the probe (external output); High-voltage X,Y, Z channels (including LV regime); Bias Voltage</li> <li>i) Number of generators for modulation, user accessible: 2, 0-5 MHz, 0.1 Hz resolution</li> <li>j) Stepper motor control outputs: Two 16-bit DACs, 20 V peak-to-peak, max current 130 mA</li> <li>k) Additional digital inputs/ outputs: 6 Additional digital outputs</li> </ul>
<p><b>High Precision Stage</b></p> <ul style="list-style-type: none"> <li>▪ Positioning of a loaded sample by manual stage</li> <li>▪ Positioning range: 12 mm or more</li> <li>▪ Sample size: 35x35x12 mm or more</li> <li>▪ Sample load: Up to 100 g or more</li> </ul>
<p><b>Modes to be included with the AFM</b></p> <ul style="list-style-type: none"> <li>(i) Non-contact / tapping mode,</li> <li>(ii) Contact</li> <li>(iii) LFM,</li> <li>(iv) Resonant Mode</li> <li>(v) Phase Imaging</li> <li>(vi) Force Modulation (viscoelasticity)</li> <li>(vii) MFM</li> <li>(viii) EFM</li> <li>(ix) Adhesion Force Imaging</li> <li>(x) AFM Lithography-Force</li> <li>(xi) AFM Lithography-Voltage</li> <li>(xii) Spreading Resistance Imaging (SRI)/ Conductive AFM</li> <li>(xiii) Scanning Capacitance Imaging (SCI)</li> <li>(xiv) Scanning Kelvin probe microscopy (SKPM)</li> <li><b>(xv)</b> PFM</li> </ul>
<p><b>Scanning Tunneling Microscopy</b></p> <p>STM (constant current, constant height) with holder, tweezers, STM wire</p>
<p><b>Software</b></p> <ul style="list-style-type: none"> <li>▪ Included software for data acquisition and image processing, analysis and presentation</li> </ul>
<p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>▪ Includes a illuminator/lighter for sample vision.</li> <li>▪ Includes 3 vertical calibration gratings with 1-D arrays of silicon oxide steps (20 nm height, 100 nm height, 500 nm height)</li> </ul> <p>Probes set:</p> <ul style="list-style-type: none"> <li>- 50 each for contact and non-contact modes</li> <li>- 10 each for MFM, EFM, PFM, SKPM and C-AFM</li> </ul> <ul style="list-style-type: none"> <li>▪ Manuals</li> <li>▪ Standard AFM probes and toolkit</li> </ul>
<p><b>Computer with Dual Monitors</b></p> <ul style="list-style-type: none"> <li>▪ Latest branded PC with a compatible 24 inch LCD monitor &amp; Windows Operating System</li> </ul>
<p><b>Passive Vibration Isolation Table</b></p> <ul style="list-style-type: none"> <li>▪ Provides economic and highly effective vibration isolation</li> </ul>
<p><b>2 KVA online UPS</b></p>
<p><b>Warranty:</b> Three (03) Years comprehensive warranty for the complete system from the date of installation</p>
<p><b>Optional Items</b></p> <ul style="list-style-type: none"> <li>• Imaging in liquid – open liquid cell with probe holder</li> </ul>
<p>Detailed User List and User Manual to be enclosed</p>
<p>Training to be provided to 1-2 persons</p>

## 2. **Specifications for Liquid Nitrogen Plant**

Liquid Nitrogen Production capacity: 20-40 Litres / day. Fully Automatic, water cooled.

- Purity of Liquid Nitrogen: 99% or better.
- Nitrogen Gas Generator: Membrane type including Air Compressor.
- Liquid N2 Storage Vessel Pressure : 0.2 to 3 bar
- Auto restart on power resumption after power failure.
- Liquid N2 Storage capacity : 100-160 Litres storage tank with level, pressure sensors with port for connecting delivery or transfer lines.
- Nitrogen Liquefier : GM Cycle process.
- Air cooled Helium compressor with vacuum insulated hoses and other relevant accessories & Helium
- Evaporation rate of tank < 0.1 to 0.8% per day.
- Insulated Transfer lines for liquid nitrogen supply.
- Automatic Dewar filling system & Automatic start and stop.
- Level alarm system for detection of level of liquid nitrogen in storage tank.
- Noise level must be below 75 dBA; Digital Oxygen analyser;
- Foot print area required : Not more than 3.0 m x 3.0 m x 2.0 m (l x b x h)
- Power consumption must be minimum and should mentioned in the technical bid.
- Operation and control should be fully automatic.
- System should be integrated with visual display.
- Two sets of complete user manuals and service manuals in ENGLISH.
- Supplier should quote for major maintenance kit or spares for 3-years operation.
- Vendor should have their service setup in India and Service support should be available at site within 48-72 hours of complaint submission. Qualified and trained engineers should be deputed for service.
- Layout of the Liquid Nitrogen Plant and Symmetric Diagram should be provided along with the technical bid.
- Assembly and testing should be factory assembled and rigorously tested. All accessories should be OEM approved.
- The bidder must be authorized partner of their principal (OEM) & Bidder / OEM should have supplied and installed at least 5 - 6 such plants in India. Documentary proof shall be forwarded in support of their claim along with Installation & Commissioning along with Performance Certificate without which their bid will not be considered for evaluation. Commissioning report should be attached along with the technical bid.
- The company must ensure the quick availability of service engineer for handling and queries regarding working and maintenance. Engineer services all the time, must be provided even after warranty period.
- Firm / Bidder should submit detailed specifications and product catalogues.
- Bidder must comply with Make in India policy issued by Govt. of India.
- Validity of quotation should be minimum 3-months.
- Suitable packing for safe shipping
- Comprehensive Warranty for 3 years from the date of Installation & Commissioning of the system.



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SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur, P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

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## CERTIFICATE

**(to be provided on letter head of the firm)**

I hereby certify that the above firm has not been ever blacklisted by any Central/State Government/Public Undertaking/Institute on any account.

I also certify that the above information is true and correct in all respect and in any case at a later date, if it is found that any details provided above are incorrect, then the contract given to the above firm may be summarily terminated and the firm may be blacklisted.

Date:

Place:

Authorized Signatory

Name:

Seal

Designation:

Contact No.:



# CENTRAL UNIVERSITY OF SOUTH BIHAR

SH-7, Gaya- Panchanpur Road, Village- Karhara,  
Post- Fatehpur, P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

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## AFFIDAVIT

1. I/We the undersigned do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s \_\_\_\_\_  
\_\_\_\_\_ have abandoned any work/supply nor any contract awarded to us for such works/supplies have been rescinded, during last three years prior to the date of this bid.
3. The undersigned hereby authorize and request any bank, person, firm or Corporation to furnish pertinent information deemed necessary as requested by the Central University of South Bihar, to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understands and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Central University of South Bihar.

(Signed by an Authorized Officer of the Firm)

Title of Officer

Name of Firm

Date:



# CENTRAL UNIVERSITY OF SOUTH BIHAR

SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur, P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

## Undertaking

Name of the work : \_\_\_\_\_

Tender No. : \_\_\_\_\_

We confirm that we have quoted the rates in the tender considering Inter-alia the

1. Tender Document(s) with all Annexures, Scope of Vendor
2. Additional Document(s), if any
3. BOQ Document (Price Bid Format)
4. Corrigendum, if any
5. Pre Bid Meeting Minutes, if any

We, \_\_\_\_\_ (Name of the Tenderer) hereby certify that we have fully read and thoroughly understood the tender requirements and accept all Terms and Conditions of the tender including all corrigendum/addendum issued, if any. Our offer is in confirmation to all the terms and conditions of the tender including all corrigendum/addendum, if any and minutes of the pre-bid meeting. In the event, our offer is found acceptable and contract is awarded to us, the complete tender document shall be considered for constitution of Contract Agreement.

Signed for and on behalf of Tenderer(s)

Name of Tenderer(s)

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

Place :

Seal & Signature of Tenderer

### **Note :**

This declaration should be signed by the Tenderer's authorized representative on COMPANY LETTERHEAD who is signing the Bid and to be submitted with tender.





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## FINANCIAL BID PROFORMA

Tender Notice No.: CUSB/PHY/FIST/T/01/2024,

Date: 24/05/2024

Subject: "Supply & Installation of Lab Equipments" at Department of Physics, Central University of South Bihar

Name of the Bidder: \_\_\_\_\_

Sl. No.	Item description with specification (Attach separate sheet, if required)	Qty. (Nos.)	Warranty (in Years)	GST* @	Unit price (Rs.) Inclusive GST, delivery, installation & Other charges	Total price (Rs.) GST, delivery and installation
1.	Scanning Probe Microscope including MFM, EFM, Lithography, SRM, SCM, KPFM, PFM and STM (Specifications as per annexure-I)	1				
2.	Liquid Nitrogen Plant (Specifications as per annexure-I)	1				
<b>Total Basic Amount (Rs.)</b>						
<b>Total Amount with GST (Rs.)</b>						
<b>Total Amount in words (Rs.) (.....)</b>						

Note: No overwriting or use of whitener is permitted. If done then it will be summarily rejected.

\*University provide DSIR Certificate for exemption of GST @ 5% .

Date:

Signature

Name:

Designation & seal