



# CENTRAL UNIVERSITY OF SOUTH BIHAR

NH-120, 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 “**Short Read DNA Sequencer with Accessories**” under **PURSE Research Project-111** at **Prof. Venktesh Singh, Coordinator, DST-PURSE, Central University of South Bihar**, Panchanpur, Gaya from original manufactures/ authorized dealers/ distributors. The last date and time of submission of tender document is **09/03/2026 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. 2000/- 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. 2000/- in favour of ‘Central University of South Bihar’, payable at Gaya. The last date for submission of Tender documents is **09/03/2026 by 4:00 PM**. Duly filled in tender is to be sent to the below-mentioned address by registered-post / speed-post/ by hand.

To,  
**Prof. Venktesh Singh**  
**Coordinator, DST-PURSE (RP-111)**  
**(Tender Document)**  
**Central University of South Bihar**  
**NH-120, Gaya- Panchanpur Road,**  
**Village- Karhara, Post- Fatehpur**  
**P.S- Tekari, District- Gaya (Bihar), PIN- 824 236**

Email- [venktesh@cusb.ac.in](mailto:venktesh@cusb.ac.in)

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

Contact – 0631-2229519

CPP Portal web site: [www.eprocure.gov.in/epublish/app/epublish/app](http://www.eprocure.gov.in/epublish/app/epublish/app)

### Index for Tender Form

Sl. No.	Items	:	Details
1.	Tender Notice No. and date	:	<b>CUSB/PHY/PURSE/T/04/2025-26, Date: 11/02/2026.</b>
2.	Name of work	:	Tender Bid Document for the Supply & Installation of “ <b>Short Read DNA Sequencer with Accessories</b> ” under <b>PURSE Research Project-111</b> at Coordinator, DST-PURSE, Central University of South Bihar
3.	Tender Fee (Non-refundable)	:	<b>Rs. 2000/-</b> in form of Demand Draft
4.	Earnest Money Deposit (Refundable)	:	Earnest money <b>Rs. 7,50,000/-</b> in shape of DD/BG/FDR 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	:	11/02/2026
6.	Last date and time for Receipt of Bids	:	09/03/2026 by 04:00 PM.
7.	Date and Time of opening of Technical Bids	:	09/03/2026 by 04:30 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 “**Short Read DNA Sequencer with Accessories**” under **PURSE Research Project-111** at Coordinator, DST-PURSE, Central University of South Bihar

Sold to Sri/Smt./M/s.

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

On payment of Rs. 2000/- (Rupees Two Thousand 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**



**TENDER NO. - CUSB/PHY/PURSE/T/04/2025-26, Date: 11/02/2026**

## **Technical Bid**

**Note:** This is to be kept in **Envelope “B”** sealed and it should be written on envelope that Technical Bid for Tender Bid Document for the Supply & Installation of **“Short Read DNA Sequencer with Accessories”** under **PURSE Research Project-111** at Coordinator, DST-PURSE, Central University of South Bihar.



## PAC BID : NOTICE INVITING TENDER

The Central University of South Bihar (CUSB), invites sealed tender in two bid system for the Supply & Installation of **“Short Read DNA Sequencer with Accessories”** under **PURSE Research Project-111 at Coordinator, DST-PURSE, 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>“Short Read DNA Sequencer with Accessories”</b> at Coordinator, DST-PURSE, Central University of South Bihar, Gaya.	Rs. 7,50,000/- (As per Annexure 'A')	09/03/2026 by 4:00 PM	Shall be intimated on university website.	15 weeks 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 (along with 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 firms should have an average annual financial turnover of at least of Rs. 7.50 Crore during the preceding last 3 (three) consecutive financial year from 2023-24 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% (Rs. 1.0 Crore) of the cost or two similar supplies costing not less than 60% (Rs. 1.5 Crore) of the estimated cost or one similar supply costing not less than 80% (Rs. 2.0 Crore) 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 **09/03/2026 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 at CUSB Gaya as per detailed specifications as given in the Annexure-A of the tender document.

6. For any clarification and doubt related with the Tender, Tenderers should email their queries to [venkatesh@cusb.ac.in](mailto:venkatesh@cusb.ac.in) or phone to 0631-2229519.

- 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. 2000/-** (Indian Rupees two thousand only) in the form of Demand Draft failing which the tender will not be accepted. Tender must also be accompanied by earnest money of **Rs. 7,50,000/-** (Rs. Seven Lakhs Fifty Thousand only) in the form of DD/BG/FDR 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. EMD is 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. They must submit Tender Fee with the bid document.
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 PAN and GST.
- 9.ii.b. Copy of ITR of last 03 years.
- 9.ii.c. Copy of Small Scale Unit/ MSME/ NSIC Registration under relevant items (if registered).
- 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. Any product manual, credentials etc.
- 9.ii.g. Audited Balance Sheet of last 03 years to comply with Financial Eligibility Criteria.
- 9.ii.h. Copy of Purchase Order be attached to comply Physical Eligibility Criteria
- 9.ii.i. Installation Report of same item(s) from any two institutions/university
- 9.ii.j. Copy of Warranty Certificate
- 9.ii.k. ISO Certificate
- 9.ii.l. Non-Blacklisting Certificate
- 9.ii.m. All pages of tender document including various sections (except priced bid) duly signed / sealed by the Tenderer.

## 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 / Envelope-C 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 superscribing thereon **Tender for Supply & Installation of "Short Read DNA Sequencer with Accessories"** under PURSE Research Project-111 at Coordinator, DST-PURSE, Central University of South Bihar, Gaya (Bihar) along with **Tender Number**.
  - The envelope should be addressed to-  
*Prof. Venkatesh Singh, (Tender Document), Coordinator, DST-PURSE, Central University of South Bihar, NH-120, 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 and submission of SD/PBG. 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 **75 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/PURSE/T/04/2025-26, Date: 11/02/2026</b>					
<b>Tender Name</b>	Tender Bid Document for the Supply & Installation of “ <b>Short Read DNA Sequencer with Accessories</b> ” under <b>PURSE Research Project-111</b> at Coordinator, DST-PURSE, Central University of South Bihar					
<b>1.</b>	Name of the Organization with address					
	Year of establishment					
<b>2.</b>	Head Office / Registered Office					
	Telephone No/mobile No.					
	Fax No.					
	Email					
	Web site (if any)					
	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		Service		Dealership	
	Stockiest		Indian Agent		Indian Branch Office	
	Others Pl. Specify					

<b>7.</b>	<b>Class / Type of Product / Materials Manufactured / Sold / Serviced/ Fabricated</b>				
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.....	
<b>Audited Annual Turnover during last 3 years (Rs. In Lakhs) (enclose Chartered Accountant's certification &amp; Income Tax Return Copy)</b>					
<b>Year</b>		<b>Rupees (in Lakhs)</b>		<b>Annexure (Number)</b>	
2024-25					
2023-24					
2022-23					

<b>8.</b>	<b>Commercial Information (enclose Attested Copy wherever Applicable)</b>				
<b>S. No.</b>	<b>Information</b>	<b>Details</b>		<b>Annexure (Number)</b>	
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 ISI/ ISO 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), whichever is applicable	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./ Page No.
	<b>Envelope - A</b>		
1.	Tender Fee of Rs. 2000/- (Non-refundable)		
2.	EMD Cost of Rs. 7,50,000/- (Refundable)		
3.	MSME/Others (for Exemption of EMD, submit Requisite Certificates)		
	<b>Envelope - B</b>		
4.	Copy of PAN Card		
5.	Copy of GST No.		
6.	Manufacturer Authorization Certificate (MAF)		
7.	Copy of ITR of the last three years.		
8.	Audited Balance Sheet of last 03 years to comply with Financial Eligibility Criteria.		
9.	Copy of Purchase Order be attached to comply Physical Eligibility Criteria		
10.	Installation Report of same item(s) from any two institutions/university		
11.	Any Product Manual		
12.	Copy of Warranty Certificate		
13.	Copy of Memorandum and Article of Association, Certificate of Incorporation, Partnership Deed, Registration Certificate issued by the Registrar of Firms etc.		
14.	ISO Certificate		
15.	Duly filled in form of Bidder Information, Vendor Details, Undertaking etc.		
16.	Warranty Certificate, as requisite for each equipment separately		
17.	Non-Blacklisting Certificate		
18.	Duly filled/signed/sealed ATC-cum-Compliance Sheet		

**N.B. -** 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 **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. 90% payment against delivery and successful installation report by PIG Group, and remaining 10% after completion of all other contractual obligations, subject to submission of PBG/SD @5% of the order/contract value within time or same shall be deducted from payment voucher.
- 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. Coordinator, DST-PURSE, 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 0.5% per week** and the maximum deduction is **10% of the delayed item(s)** 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 @ 5% of invoice value** as per GFR Rules 2017 (if applicable). EMD of successful bidder shall be refunded only after submission of PBG/SD whereas that of unsuccessful bidders shall be returned once issuance of award letter.

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# CENTRAL UNIVERSITY OF SOUTH BIHAR

NH-120, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur, P.S- Tekari, District- Gaya (Bihar) PIN- 824 236

## VENDOR DETAILS FORM

1.	<b>Do you have a PFMS Unique ID (please tick)</b>	NO	YES	UID No.-
2.	<b>Name of the Firm</b>			
3.	<b>Address with City Name &amp; Pin Code</b>			
4.	<b>Contact No.</b>			
5.	<b>Email ID</b>			
6.	<b>GST No. ( Yes / No )</b>	<b>GST No. -</b>		
		<b>If YES, a copy of GST CERTIFICATE must be attached.</b>	<b>If NO, duly signed/sealed attached DECLARATION OF GST NON-ENROLMENT must be submitted.</b>	
7.	<b>PAN No.</b>			
8.	<b>TIN No.</b>			
9.	<b>ADHAR No.</b>			
10.	<b>Name of the Contact Person With Mobile No. &amp; E-mail ID</b>	<b>Name :</b>		
		<b>Mobile :</b>	<b>E-mail ID :</b>	
11.	<b>Bank Account Details</b>			
	Beneficiary Name			
	Bank Name & Branch			
	Bank Account Number			
	IFSC Code			
	MICR Code			
	Type of Bank Account	Saving Account	Current Account	Cash Credit
Telephone no. and E-mail of Bank Branch	Telephone			
	Email ID			
12.	<b>Vendor Type (please tick)</b>	Manufacturer	Distributor	Reseller
		Service Provider	Stockiest	Indian Agency

**Signature of Vendor with Seal**

**Name:** \_\_\_\_\_

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

## DECLARATION OF GST NON-ENROLMENT

DECLARATION OF GST NON-ENROLMENT

Dear Sir/Madam,

Sub: Declaration of non-requirement of registration under the Central/State/UT/Integrated Goods and Services Tax Act, 2017

I/We.....(*Name of the service provider/business entity*), do hereby declare that I/we am/are not registered under the Goods and Services Tax Act, 2017 as (*select and fill below for the relevant reason*)

-I/We deal in/supply the category of goods or services .....(*Describe the nature of the services/goods*) which are exempted under the Goods and Service Tax Act, 2017.

-I/We have the annual aggregate turnover below the taxable limit as specified under the Goods and Services Tax Act, 2017.

-I/We are yet to register ourselves under the Goods and Services Tax Act, 2017.

I/We hereby also confirm that if anytime during any financial year I/we decide or require or become liable to register under the GST, I/we undertake to provide all the requisite documents and information.

I/We request you to consider this communication as a declaration for not requiring to be registered under the Goods and Service Tax Act, 2017.

I/We hereby also confirm that .....(*Name of the service recipient*) shall not be liable for any loss accrued to me/us, due to any registration default with the GST.

Signature of Authorised Signatory:

Name of the Authorised Signatory:

Name of Business:

Date:

Stamp/Seal of the business entity:



**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

NH-120, 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

NH-120, 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.



**SPECIFICATIONS OF THE EQUIPMENT**

S.NO.	EQUIPMENT NAME	ESTIMATED BUDGET	EMD REQUIRED	WARRANTY
I.	Short Read DNA Sequencer with Accessories	2,65,00,000/-	7,50,000/-	5 YEARS

**SUPPLY AND INSTALLATION OF SHORT READ DNA SEQUENCER WITH ACCESSORIES INCLUDING FRAGMENT ANALYZER AND OTHER ACCESSORIES**

The Central University of South Bihar, Gaya is establishing a State-Of-The-Art Molecular Biology Facility (SAMBF) under DST-PURSE grant. Under this facility, DST has approved following equipment:

1. Short Read DNA Sequencer with accessories – one each

Given below are the specifications for the above systems. The manufacturer quoting must specify that the machine should offer all the applications mentioned below in the respective specifications satisfactorily.

**Technical Specifications for Short Read DNA Sequencer System & all other accessories**

1. The next-generation sequencing (NGS) system should be a compact benchtop model with minimal foot print and able to support multiple sequencing applications: 3’ gene expression, RNA sequencing (RNA-Seq), including mRNA-Seq and total RNA-Seq (coding and noncoding), Targeted RNA panels, Pathogen detection, 16S amplicon sequencing, Shotgun and shallow shotgun metagenomics, Small whole-genome sequencing, Amplicon-based targeted sequencing, Enrichment-based targeted sequencing, Genome editing, Immune repertoire, Library QC, etc.
2. System should offer flexible scalability to generate upto 30 Gb and up to 100 million single end reads or 200 million pair end reads to support a broad range of applications, including metagenomic sequencing, de-novo sequencing and re-sequencing of microbes, complete de-novo sequencing and re-sequencing of higher eukaryotes including human genome, ChIP sequencing, transcriptome sequencing (microbial, plants and human), etc.
3. Quoted NGS system should support Sequencing by Synthesis technology flow cell based or Ion Semiconductor sequencing technology. If it is flows cell based, the system should have random flow cell or pattern flow cell.
4. The system should have onboard cluster generation followed by integrated massively parallel sequencing of DNA/RNA libraries loaded directly on the integrated sequencing cartridge. The sequencing chemistry should offer both single end and paired end sequencing (100, 300, 600 and 1000 cycles) to be completed in 4–26 hours and prepares FASTQ files as part of the sequencing run, without need of extra equipment or steps.
5. Sequence output should generate accurate base calls and high error free raw data with Q30 or more with minimum incorrect base-calling.

6. The sequencing technology should offer accurate sequencing of homopolymers and highest read quality score of Q30 for more than 90% for 2x150 cycle and & 85% at 2x300; 2x500 cycle of the base calls having more than 99% accuracy ensuring quality control steps.
7. System should have inbuilt hardware for ultra-rapid secondary analysis for a wide variety of genomic analysis solutions, including base call (BCL) file conversion, mapping, alignment, sorting, duplicate marking, and variant calling without the need for bioinformatics expertise.
8. The on-board analysis hardware should use optimized, hardware-accelerated algorithms for a wide variety of genomic analysis solutions, including base call (BCL) file conversion, compression, mapping, alignment, sorting, duplicate marking, and variant calling. Pipeline for whole exome, targeted resequencing, whole transcriptome expression and fusion detection.
9. It should enable highly accurate variant detection, extremely uniform coverage, and sensitivity to detect low-frequency variants.
10. System should be able to sequence multiple samples at a time with option of using barcodes for sample multiplexing up to 384 or more.
11. System should be flexible enough to select different chips/flow cells to support different data outputs and applications.
12. Quoted system should support sequencing long homopolymers i.e. 15bp or more.
13. The flow cell shipment and storage should be at room temperature.
14. Next Gen Sequencing (NGS) system should occupy minimal lab footprint and should be offered with facility for template DNA amplification and sequencing with all necessary equipment to perform complete sequencing solutions.
15. The system should have an option of integrating with a cloud-based computing environment, for data storage, sharing and analysis.
16. The supplier should perform installation free of cost with a working demo using their consumables.
17. Instrument operation training should be provided by a vendor service engineer. Local service engineers, regional technical support/applications training, on-site, in-lab customer training and technical phone support should be made available free of cost.
18. In addition, supplier should arrange 03 'three days hands on DNA sequencing and Data Analysis' trainings/ year for at least 30 users till the warranty period without any additional cost.
19. Equipment should come with five (05) years comprehensive warranty. During warranty period, labour, spare parts and all other unforeseen expenses should be covered by the vendor. In addition, vendor should quote for additional comprehensive warranty from 6<sup>th</sup> to 10<sup>th</sup> year.
20. The warranty will commence only after the system is successfully installed, tested by trial runs and certified by the committee of CUSB.
21. If the downtime of the machine exceeds two weeks after the information of malfunctioning or trouble in the instrument is communicated to the vendor, then the vendor will be penalized.
22. The supplier must install the complete system at the space provided by CUSB and demonstrate a successful installation using two complete test runs. The test runs must demonstrate the promised quality and output as specified in the proposal.
23. The vendor should supply one 8 KVA branded UPS with at least 2-4 hour backup to run the instrument/on full load along with the system.
24. The vendor should undertake to supply the reagents to be used with the machine upon every demand raised by the users for at least 10 years from the purchase of the machine even if the machine becomes obsolete and discontinued.
25. The vendor should undertake to supply the spare parts (both critical and others) to be used in the machine upon every demand raised by the users for at least 10 years from the purchase of the machine even if the machine becomes obsolete and discontinued.
26. The vendor should ensure proper and smooth functioning of the equipment by supplying appropriate product care which includes full coverage for parts, software updating, labour and travel; Reagent replacement upon hardware failures; zero product maintenance; Remote Technical Support; 5 business day average on-site response; hardware/software updates with no additional cost; On-site applications support.

27. Vendor would require to prepare site suitable for installation of NGS machine – it include fabrication of space, setting up wall benches/Island benches, cooling system and any other required items in consultation with the end users.
28. Required consumable rates are to be fixed/ discount is to be fixed on consumables (including kits and panels).
29. Vendor should provide a certificate from manufacturer that the supplied machine is brand new and not a refurbished item.
30. Vendor should supply 10 flow cells of 100 million reads or as per user demand with the system.
31. The unit price of following consumables must be quoted and based on budget availability, orders will be placed. This unit price of the consumable will be used for selection of the lowest vendor.
- a) Consumables required to process minimum 20 numbers of metagenomics samples originated from animal guts, plant rhizosphere with >1million reads per sample. Consumables should include Primers to amplify the hyper variable regions, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing reagents and Sequencing flow cell / Chips. All part numbers with relevant pack sizes details should be mentioned.
  - b) Consumables required to process minimum 20 of whole bacterial genome of 5 Mb size at ~100X coverage. Consumables should include reagents to fragment whole genome, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing reagents and Sequencing flow cell / Chips. All part numbers with relevant pack sizes details should be mentioned.
  - c) Consumables required to process minimum 20 transcriptome (human/ animal / plant) gene expression samples. Consumables should include Primers to amplify the target regions, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing reagents and Sequencing flow cell / Chips. All part numbers with relevant pack sizes details should be mentioned.
  - d) Consumables required to process minimum 20 restricted genome and exome sequencing for human/ animal/ plant. Consumables should include Primers to amplify the target regions, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing reagents and Sequencing flow cell/Chips. All part numbers with relevant pack sizes details should be mentioned.
  - e) Consumables required to run minimum 20 AMR panels for different samples. Provision need to be provided with pricing to decide orders based on samples whose details will be provided at the time of procurement. It should include panels, Barcodes and adapters, Library preparation kits, Template amplification reagents, Sequencing reagents and Sequencing flow cell/Chips. All part numbers with relevant pack sizes details should be mentioned.
32. The following essential accessories for the facility towards NGS library preparation must be quoted along with the main instrument. The unit price of each accessories must be quoted. Based on budget availability, orders for accessories will be placed. This unit price of each accessory will be used for selection of the lowest vendor.
- a) **Fragment Analyzer – 1 No.**
    1. The Instrument should be used for analysis of Sample size, Quantity, Molarity and Integrity.
    2. Instrument should be used for below QC applications.
      - a. QC of genomic DNA (gDNA) including DNA Quality Number (DIN/DQN)
      - b. QC of cell-free DNA
      - c. NGS library QC
      - d. Analysis of amplified libraries.
      - e. PCR and multiplex PCR fragment analysis
      - f. QC of quantitative PCR products.

- g. Quality and quantity of total RNA samples from eukaryote or prokaryote origin
- 3. QC Analyzer instrument should analyze any sample number from 1 up to 16 samples at constant cost per sample.
- 4. Instrument should be capable to run following application Kits.
  - a. DNA Kit (Sensitivity of 0.1 ng/μL)
  - b. High Sensitivity DNA Kit (Sensitivity of 5 pg/μL)
  - c. RNA Kit (Sensitivity of 5 ng/μL)
  - d. High Sensitivity RNA Kit (Sensitivity of 1 ng/μL)
  - e. Genomic DNA Kit (200 to > 165,000 bp & Sensitivity of 0.1 ng/μL)
  - f. Cell Free Kit (50 to 750 bp & Sensitivity of 20 pg/μL)
- 5. An automated system from sample/reagent loading, processing to analysis with zero cross contamination.
- 6. No manual Gel dye mix steps for sample preparation should be required. Instrument should have automated loading and walk away operation.
- 7. The system must be able to accommodate maximum sample volume of 1-2 μL of precious sample for all applications including High Sensitivity Analysis.
- 8. The system should be supported with optimized and validated kit for Genomic DNA and Cell-free DNA.
- 9. The system should support DIN/DQN and RIN/RQN algorithm to measure the quality of the DNA and RNA.
- 10. The system must be accommodating tube strips or tube format.
- 11. The instrument software must offer feature for calculating the stability of RNA.
- 12. System must offer cleaning step between sample loading to avoid any contamination issues.
- 13. The system must have robust capillaries for electrophoresis with pre mixed detection dye.
- 14. The system should have integrated bar code scanner/RFID reader to identify the cartridge details.
- 15. The system must not depend on use of any external/internal Nitrogen cylinder for running the Instrument.
- 16. The Instrument must be supplied with kits & cartridges of DNA and RNA analysis of 200-300 reactions each with at least 6-9 months of expiry.
- 17. Should have comprehensive warranty for 5 years.

**b) Storage workstation – 1 no**

- 1. Manufactured by DELL/TOSHIBA/IBM/APPLE/LENOVO or any other reputed brand
- 2. Processor: Intel Xenon Processor 5<sup>th</sup>/6<sup>th</sup> Gen, Minimum 2 Processor with 12-18 Cores (thus a total 24-36 Cores), Clock speed of minimum 2.5Ghz.
- 3. Memory: 1TB DDR4 or DDR5 16\*32GB) @ 4800 Mhz or more (motherboard must support up gradation)
- 4. Hard Disc: SSD = 1TB X 1
  - I. SATA = 4TB X 6 =24TB 3.5” SATA3 6Gbps 7.2KRPM HDD
  - II. SAS = 1TB X 2 = 2.4TB, 10K RPM
- 5. DVD write X 1
- 6. Nvidia GeForce RTX 5076 (CUDA Core 6144 @ 2.33 GHz and 12 GB GDDR7 )
- 7. Latest Intel Chipset
- 8. Intel 1217 & 1210 Gigabit Ethernet Controllers with Intel Remote Wake UP, PXE and Jumbo frames support
- 9. A 24TB NAS with RAID configuration 3+ from a provider such as Netgear good to keep the data sets and run data for archival.
- 10. A network switch upgrade to 100Gbps from the machine to NAS/Server would also be suggested if the Institute can provide for seamless data transfer from the machines to the data storage/servers.

11. Latest suitable display with wifi mouse and key board as per the user requirement.
12. Licence of CLC genomics for five years.
13. Geneious Prime licence for two users for five years.
14. In case of budget constrain, System specification may be revised at the time of finalization.
15. Should have comprehensive warranty for 5 years.

**c) Magnetic stand 96 well plate - 1 no.**

1. The stand should have U-bottom 96 well micro plates and 0.2 mL PCR plates.
2. It should have a white polyoxymethylene (POM) base in standard SBS 96-well micro plate footprint.
3. It should have at least 24 extremely strong permanent magnets for easy and fast magnetic separation in as little as 30 seconds.
4. It should be sits flat on a lab bench as well as in a micro plate adapter on workstations.
5. Should have comprehensive warranty for 5 years.

**d) Magnetic stand 1.5/2 ml tubes -1 no.**

1. The stand should have magnet optimized for efficient magnetic separation of all types of beads (range 1– 4.5  $\mu\text{m}$  in diameter) in small (less than 2 mL) sample volumes.
2. It should have strong magnetic attraction for efficient separations in standard microcentrifuge tubes with a flexible and smart ergonomic design.
3. It should have optimal working volume: 10 – 2,000  $\mu\text{l}$ , holds up to 16 standard 1.5–2 mL microcentrifuge tubes in numbered spaces and good control and visibility of the sample.
4. The top rack should be quickly removed from the magnet in the base, ready for resuspension, vortexing, rotation, or manual sample shaking.
5. Should have comprehensive warranty for 5 years.

**e) Anti-vibration table – as per requirement**

Anti-vibration Table is used in an application where instrument usage and accuracy of their reading are affected by vibration e.g., weighing balances, galvanometer, etc. The anti-vibration table isolates the precision equipment kept on it from the vibrations from the floor generated by environmental means. The table should consist of the following parts:

1. Tubular Frame:

It should be completely modular type which carries the load of kadappa and granite kept on it, high-tension pan head M6 Zinc black-coated screws (for better corrosion resistance) for the fastening. The material should be 40 Sq x 1.6 thick ERW tube and the overall load-carrying capacity of the tubular frame should be 250 kg.

2. Cover panels material:

The cover panels should be made up of a 0.8-mm thick CRCA M.S. sheet. The complete M.S. material of the cabinet should be pre-treated (degreased, Zinc Phosphate) and epoxy powder coated (Ivory color) for better corrosion resistance. The thickness of the powder coat is 45-50 microns, which should pass the test of salt spray for 1000 Hours and has the scratch hardness of 3 Kg.

3. Kadappa material: It should have 25 mm thick Kadappa acts as the shock-dampening component.
4. Work Surfaces:  
The work surfaces should be provided with granite: 18(+/-) mm. thick, high-quality granite in jet-black colour with duly polished edges. It should have good chemical resistance, high scratch & wear resistance, and good cleanability.
6. Vibration Isolating rubber pads:  
It should have vibration isolating rubber pads to absorb the pulsating vibrations coming from the floor. The pads should be made up of a combination of nitrile rubber, cork particles, and cross-linked polyester fibre.
7. Levelling Screws: The tubular frame should have the provision for four height adjusters (levelling screws) that take care of all levelling aspects.

**f) Refrigerated Centrifuge suitable for NGS workflow along with a NGS workflow plat rotor and a 24 well 1.5/2ml rotor – (centrifuge – 1 no, plate rotor – 1 no, tube rotor – 1 no)**

1. The instrument should have the rotor capacity:  $24 \times 1.5/2.0$  mL with max. rotor capacity  $48 \times 1.5/2.0$  ml,  $6 \times 50$  ml,  $2 \times$  MTP; and a plat rotor.
2. The max. speed should be  $30,130 \times g$  (17,500 rpm) with remarkable versatility with 12 different rotors.
3. It should have soft-touch one-finger lid closure for ergonomic operation and multi lingual operation menu with large backlit display.
4. It should have 5 program keys for easy access to routine programs and saves up to 50 user-defined programs.
5. It should have automatic rotor recognition and imbalance detection for maximized operational safety.
6. The temperature range should be from  $-11$  °C to  $+40$  °C and the patented compressor technology to reduce the vibration and protects the samples.
7. It should provide the continuous cooling to maintain a constant temperature after the run has been completed.
8. The instrument should have programmable pre-cooling according to day and time and eco shut-off after 8 hours of non use to reduce energy consumption (37 % overnight) and extend compressor life (can be deactivated in menu).
9. It should have built-in condensation drain to eliminate water accumulation.
10. The instrument must be in compliance with International standards such as Indian, USA and UE standards.
11. The centrifuge must be supplied with a recommended servo stabilizer.
12. The instrument must have the 5 year comprehensive warranty.

**g) Vortex mixer for tubes and 96 well plate – 1 no.**

1. The instrument should have high-speed mixer (up to 3,000 rpm) for fast and efficient mixing of small volumes in all common vessel formats up to 50 ml.
2. It should have 5 different tube holders (0.5 mL, 1.5/2.0 mL, 5/15 mL, 25/50 mL, PCR 96-well plates) for high vessel flexibility.

3. The instrument should have mix-control technology (planar mixing orbit without vertical movement) for controlled mixing and reproducible results in seconds.
4. It should have anti-spill technology for controlled mixing movements without lid wetting and cross-contamination.
5. It should have integrated ergonomic vortex function for various vessel formats for distinct sample mixing and minimal hand/arm vibration transfer during vortexing for ergonomic operation.
6. The instrument should have 5 soft keys with pre-defined standard mixing parameters for easy usage.
7. It should have timer: 15 s – 99.3 h, continuous; noise level < 50 DB; power supply: 230 V, 50 – 60 Hz.
8. It should have max. Speed 3000 rpm with mixing frequency 300 – 3000 rpm.
9. It should be very stable and remains stationary even at maximum mixing speed.
10. The instrument must have the 5 year comprehensive warranty.

**h) Dehumidifier 28L – 1 no.**

1. The instrument should have the dehumidifying condensate capacity (at 30°C, 80 % RH) - 60 liters/day
2. The air flow should be 630 M3/Hr.
3. The humidity setting should be adjustable; min. - RH 30 %, max.- RH 95%.
4. The working temperature should be min. – 5°C and max. – 38°C.
5. The power supply should be single phase 220-240 VAC/50 Hz with power consumption: 850 W.
6. The compressor type should be rotary and noise level < 49 dB.
7. The refrigerant should be R407C / R410A, CFC Free and capacity of water tank (bucket capacity of drain) should be 8 Liters.
8. The filter should be G2 grade, washable and cleanable by water & air.
9. It should have automatic defrost and provided with LCD display to show room temp., present humidity, required humidity, full water tank warning signal and fan speed timer 1-24 hrs.
10. The condenser of tubes should be copper and fins should be aluminium.
11. The product dimensions (W x D x H) should be approx. 335 x 490 x 660 mm (13.1” x 19.2” x 25.9”) and box dimension (W x D x H) should be approx. 420 x 560 x 745 mm (16.5” x 22” x 29.3”) and castor (wheels) for easy movable.
12. It should be provided with quality/safety approval ISO/GS/CE/ROHS/EMC.
13. The instrument should have automatic humidity control, adjustable RH 30-95%, display humidity trouble, auto shut off when the tank is full, continuous drain option, washable, pre filter, humidity set at will, humidity control and micro-computer control system.
14. It can be set to be off from 1 hour to 24 hours with 3 minutes delayed for protecting the compressor.
15. The instrument should have microcomputer automatic defrost system and suitable for low-temperature ambience.
16. The instrument should have at least 5 year warranty.

**i) Microtube homogenizer -1 no**

1. The instrument should have the extremely powerful mixing capacity for lysis grinding or homogenization.
2. It can homogenize 1, 2 or 3 tubes simultaneously.

3. It should be faster and more effective than tissue grinders.
4. It should be extremely compact to eliminates the cross contamination associated with handheld homogenizers.
5. The speed range should be 2800 to 4000 rpm.
6. The capacity should be 3 x 2.0 ml (Screw cap / non-skirted).
7. The timer can be set from 3 sec. to 3 min.
8. The dimensions should be 6.9 x 8.3 x 5.3 in / 17 x 21 x 13.5 cm.
9. The electrical requirement should be 230V/50-60Hz.
10. The bulk beads, silica (glass), 1.0 mm acid washed and 2 ml tubes to be included with the instrument Qty-200 gm beads and 200 tubes.
11. Should have comprehensive warranty for 5 years.

**j) Heating block – 1 no.**

1. The instrument should have two numbers of blocks (for 1.5/2ml tubes) with heat output 250 W.
2. The heating temperature range should be from room temp. +5° to 120 °C.
3. The instrument should have temperature display with adjustment and display resolution 1 K.
4. The temperature stability within the blocks at 37°C should be  $\pm 0.2^{\circ}\text{C}$  and temperature stability within the blocks at 60°C:  $\pm 0.4^{\circ}\text{C}$ .
5. The temperature homogeneity @ 37°C should be 0.2 K with temperature homogeneity @ 60°C: 0.4 K.
6. The heating rate / heat up time with external sensor should be 4.5K/min.
7. The instrument should have plate material of aluminium alloy with set-up plate dimensions: 96 x 152 mm.
8. The time setting range should be from 1 - 5999 min.
9. The dimensions (W x H x D) should be 151 x 73 x 304 mm.
10. The permissible ambient temperature should be from 5 - 40°C and permissible relative humidity 80%.
11. The electrical requirement should be 220 - 240 V and frequency 50/60 Hz.
12. The instrument should have 5 year comprehensive warranty.

**k) Biosafety Cabinet – type-II – 1 no.**

1. The Biosafety cabinet should be Class II, Type A2 with UV light, armrests and manual adjustable stand.
2. The instrument should have first-class protection, energy efficiency, and user convenience.
3. The instrument should have dual blower and pressure sensor system enable a higher degree of personal and product protection compared to the traditional, single blower biosafety cabinet.
4. It should have autonomous safety features to maintain proper air flow and monitor critical conditions in real time without user interaction
5. It should have digital airflow verification plus system to validate protection by monitoring airflow velocities, detecting, and alerting to any changes.
6. The instrument should have HEPA filters to remove airborne contaminants with 99.995% efficiency at the most penetrating particle size.
7. The instrument should have ergonomically designed window mechanism when moving the window to allow the users to easily locate the optimal window position and to lower the window easily for thorough cleaning of inner surfaces.

8. Front glass should be sloped 10° for better comfort and ergonomics.
9. It should have spacious work area with comfortable armrests.
10. It should have intuitive touch screen provides essential data and status of the cabinet, easy program UV disinfection cycle, customization of the date, time, and duration of the UV cycle to fit the schedule.
11. It should provide passage of tubing and cables into the work area.
12. The instrument should also have night stand mode to reduce airflow up to 30 % during low usage periods.
13. It should have DC motors for low energy consumption and NSF/ANSI 49 Standard, UL, and CE.
14. The dimensions (L x W x H) of instrument should have preferable exterior: 31.5 x 51.2 x 61.8 in. (80 x 130 x 156.8 cm). The exterior height should be 61.8 in, length should be 31.5 in., lighting should be 90-120 fc (950-1300 lx), exterior width should be 51.2 in., Interior 47.2 in., sash opening 10 in. and Noise Level should be up to 64 dBA.
15. The electrical requirements should be 230 V, 50/60 Hz.
16. It should include cabinet, UV light and arm rest and the cabinet size should be 4 ft.
17. The instrument must be in compliance with international standards such as NSF/ANSI 49 (United States), EN 12469 (European) and Indian standards.
18. The instrument must have at least 5 year comprehensive warranty.

**I) Shaker incubator – 1 no.**

1. The instrument should have refrigerated stackable shakers, sample storage and orbital shaking with intuitive, easy-to-use digital controls along with universal platform and flask clamp starter kit includes:
  - a. Two 125 ml flask clamps, Four 250 ml flask clamps, Four 500 ml flask clamps, Two 1L flask clamps and Two 2L flask clamps.
2. The temperature range should be ambient -15° to 80°C.
3. The stackable units should accept flasks up to 6L.
4. It should have two adjustable-height shelves provide added storage.
5. It should have precisely monitor and control the chamber temperature over complete range with  $\pm 0.1^\circ\text{C}$  accuracy at 37°C with PID temperature controller.
6. It should have over temperature safety feature with independent thermostat to provide additional backup by controlling heat if main temperature controller fails.
7. The instrument should have solid-state DC brushless motor, variable speed control from 15 to 500 rpm.
8. It should have continuous and timed operation from 0.1 hour up to 999 hours or 0.1 minute to 999 minutes.
9. It should have LED display to view speed, operating time and temperature simultaneously which helps minimize errors in establishing running conditions.
10. It should display time counts up during continuous operation and down during timed runs and visual/audible signals alert user to temperature deviations; heat turns off if temperature deviates  $\pm 1^\circ\text{C}$  of set point.
11. It should have the shaker shutdown and audible/visual alarms signal if unit operates  $\pm 10\%$  of set speed, preventing the shaker from walking and eliminate sudden starts and stops with soft start feature.
12. The instrument should have user-adjustable speed calibration using a digital handheld tachometer, where verification is required and protocols can be standardized.
13. It should have safety interlock stops shaking motion when the door is open and platform motion stops when excess vibration is detected due to an unbalanced load.
14. It should retain parameters during power failure and restarts unit automatically after power is restored and allow remote monitoring of speed, time and temperature.

15. It should have large viewing window and internal light allow sample visibility, minimizing the need to open the door and it can be hinged from the right or left by the user for convenient placement in the lab.
16. The instrument should have 18 × 18 in. platform which can be dual-tiered inside the chamber to double the shaking capacity and corrosion-resistant stainless-steel chamber to accommodate a variety of 18 × 18 in. (46 × 46cm) universal and dedicated platforms.
17. It should have durable powder-coated, cold-rolled steel exterior construction.
18. The instrument should have electrical outlet inside chamber to provide power for safe operation of shakers, stirrers or rotators.
19. The instrument must have at least 5 year comprehensive warranty.

**m) Upright Lab Refrigerator – 1 No.**

Storage for samples and reagents 2 to 10 C refrigerator – 1 No.

- It should have a capacity of 400 litres or above.
- It should temperature range 0°C to 10°C
- It should have environment friendly refrigerant
- It should have atleast 4 adjustable shelves.
- It should be with minimal weight.
- It should have wheels for ease of transportation.
- It should be supplied with suitable stabiliser.

**n) Weighing balance – 1 No.**

1. The instrument should have the following specifications:

Capacity: 220 gm

Least Count: 0.0001g (0.1mg)

Readability: 0.1mg (0.0001 gm)

Repeatability (Standard deviation): ±0.1 mg

Linearity: 0.2 mg or better Response time Less than 10 sec

Stabilization (typical and fast): Approx. 4.0 sec (0.1 mg)

Weighing Pan: Circular/Square/Rectangular, single pan top, grid type and eccentric load deviation 0.2 mg

Minimum overall diameter of pan: 80 - 90 mm with tare facility.

2. Calibration (internal):

- Fully automatic, time/temperature controlled internal calibration, Should be capable to adjust itself, must be provided with calibration certificate by an agency accredited by NABL or with traceable to International Standard.
- Balance levelling should indicate immediately as & when it is required to be levelled and should have the facility for horizontal plane calibration (mercury bubble adjustment), if not otherwise available.
- Weight box traceable to international standards:
  - a. 1 mg-200g, E2 (1 no)
  - b. Accuracy class acc. to OIML R111: E2
  - c. Nominal mass value: 1 mg to 200 g. Up to 500 mg as wire weights
  - d. Susceptibility: 0.002 - 0.004
  - e. Material: special steel, non-magnetisable, density 8.0 g/cm<sup>3</sup> highly corrosion-resistant, knob weights highly polished and laser marked, in wooden case.
- Operational Requirements:
  - a. Digital display: Soft touch screen operation along with accessibility to date and time etc.
  - b. To have inner adjustable draft shield.
  - c. Glass draft shield with flexible configuration for left/right hand operation.
  - d. Weighing with automatic and manual start and provision for data interface the manufacturer to provide the specification data needed to facilitate calculation of uncertainty.

- Safety for electromagnetic compatibility.
- Permanent shock absorption facility.
- Capacity of operating in temperature range between -5 deg C to 45 deg C and relative humidity of 80%.
- Supplier/ manufacturer must be ISO certified for quality.
- Operating manuals, service manuals and other manuals should be provided with advanced maintenance tasks documentation, if any.
- The instrument must have comprehensive warranty 5 years after satisfactory installation and working excluding consumable parts and accessories.
- Should be compliant with the requirements of FDA/CE/BIS Electrical safety conforms to the standards for electrical safety IEC 60601- General requirements (or equivalent BIS Standard) certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety.
- Should provide balance and weight box calibration certificates from NABL accredited agency at the time of installation and every year during warranty.
- Should have necessary certification for safety and quality standards from national/international bodies IQ, OQ & PQ On site IQ, OQ of instrument along with document to be provided at the time of installation & supplier to assist till satisfactory PQ of instrument after sales service/post warranty.
- Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed.
- Upon call of service or breakdown calls, engineers should attend immediately without fail and should carry out yearly PM with at least one PM kit.

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# CENTRAL UNIVERSITY OF SOUTH BIHAR

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## Annexure-‘B’

### FINANCIAL BID PROFORMA

**Tender Notice No.: CUSB/PHY/PURSE/T/04/2025-26, Date: 11/02/2026**

**Subject:** Tender Bid Document for the Supply & Installation of “**Short Read DNA Sequencer with Accessories**”  
under **PURSE Research Project-111** at Coordinator, DST-PURSE, 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)	Unit Price	GST@18% (in Rs.)	Total price including GST (in Rs.)  (delivery and installation)
1.	<b>Short Read DNA Sequencer with Accessories</b> (Specifications as per annexure-‘A’)	01	05			
<b>Total Amount in words (Rupees -</b>						

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

**Date:**

**Signature**

**Name:**

**Designation & seal**